



# Access Control

## Products & Accessories Catalogue 2011–2012



Answers for infrastructure.

**SIEMENS**

# Siemens: one brand, one partner – one system ...for all your security & fire safety requirements

- Access Control
- CCTV
- Fire Safety
- Intrusion Detection

## Small applications in standalone operation – convenience store or petrol station shop



### ○ Access control products in this example:

DC800 – a powerful and highly secure door controller that can manage access rights for up to 1,000 cardholders

HD500 heavy-duty proximity reader

Codoor battery-powered codelock

K42 codelock



## Medium-sized, networked applications – large supermarket with warehouse



### ○ Access control system in this example:

SiPass® Entro – a flexible, scalable and user-friendly access control system for small to medium-sized facilities that offers full support for SISTORE™ digital video recorders

PP500 proximity reader with keypad

HF500 hands-free reader



## Large and/or high-risk applications with LAN/WAN – commercial bank



### ○ Access control system in this example:

SiPass® integrated – a comprehensive access control solution designed to meet security requirements that range in complexity from medium to very high

PR500 mullion proximity reader

Includes an extensive range of useful software extensions for applications such as HR, visitor management, etc.

CCTV, intrusion detection and fire alarm systems

AR6181-MX Smart Card reader

AR6182-MX Smart Card reader with keypad



<b>Introduction .....</b>	<b>I-1</b>
SiPass System Overview .....	I-6
<b>Single Door Products .....</b>	<b>1-1</b>
Diagrams .....	1-2
Codoor .....	1-3
Codelocks .....	1-5
Compact Card Readers .....	1-7
Controllers .....	1-9
Kits .....	1-10
SiPass Bewacom .....	1-11
<b>SiPass Entro .....</b>	<b>2-1</b>
Diagrams .....	2-2
Core Software .....	2-3
Controller .....	2-5
Door Modules .....	2-7
Signal Modules .....	2-12
Terminals .....	2-13
Kits .....	2-14
<b>Granta .....</b>	<b>3-1</b>
Diagrams .....	3-2
Core Software .....	3-3
Software Extensions .....	3-5
Controllers .....	3-7
Reading heads .....	3-8
Signal Modules .....	3-11
Cards and Tags .....	3-12
Accessories .....	3-14
<b>SiPass integrated .....</b>	<b>4-1</b>
Diagrams .....	4-2
Core Software .....	4-3
Software Extensions .....	4-7
Firmware .....	4-15
Controllers .....	4-16
Door Modules .....	4-20
Signal Modules .....	4-29
Terminals .....	4-33
Kits .....	4-34
<b>Readers .....</b>	<b>5-1</b>
Cotag .....	5-2
Smart Card 13.56 MHz .....	5-10
Proximity 125 kHz .....	5-16
Magnetic Stripe .....	5-26
PIN Reader .....	5-27
<b>Cards and Tags .....</b>	<b>6-1</b>
Cotag .....	6-2
Smart Card 13.56 MHz .....	6-5
Proximity 125 kHz .....	6-6
Magnetic Stripe .....	6-9
<b>Accessories .....</b>	<b>7-1</b>
Covers .....	7-2
Flush Mounting Kits .....	7-4
Interfaces .....	7-6
Nameplates .....	7-7
Other Products .....	7-9
<b>Demo Equipment .....</b>	<b>8-1</b>
Demo Cases .....	8-2

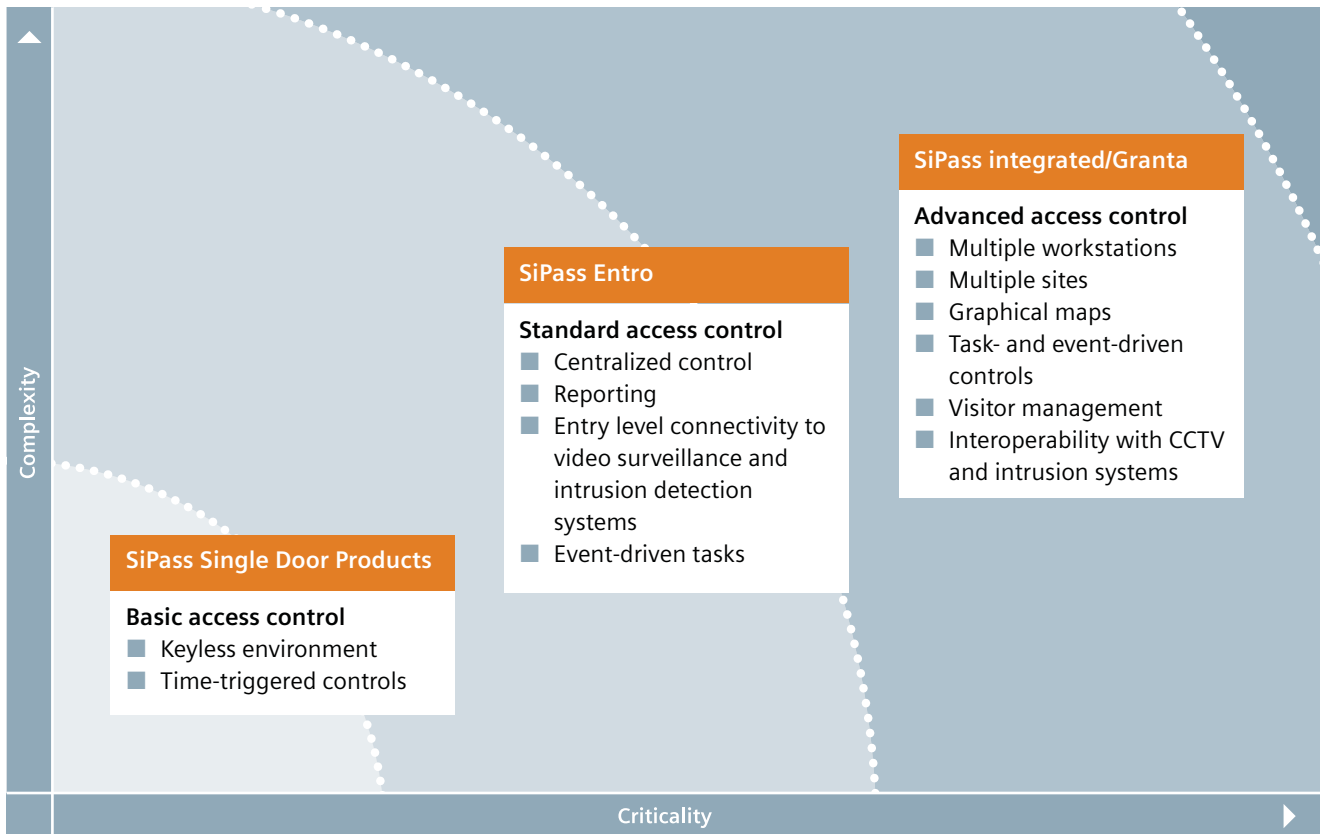
# SiPass – the ideal choice for every application

SiPass® access control products and systems provide security to a wide variety of different kinds of organizations around the world – large, medium-sized and small. Wherever they are installed, our products and systems ensure that the right people always have access to the right places at the right times, and that the wrong people never do.

While security is of utmost importance, the SiPass range has also been designed to provide a high level of convenience. As a result, our products aren't only robust and reliable – they are also very easy to install, use and maintain. All of our systems are both flexible and scalable, which means it's easy to modify or expand them at any time to meet changing needs.

Whatever a customer's needs might be – from providing security at a single door to overcoming the security challenges faced by very large multinational corporations with thousands of doors and cardholders at different locations around the world – we are confident that the SiPass range offers an ideal product or system.

## Product/system positioning in terms of the complexity and criticality of the application



## **Why is an access control system a better option than traditional locks and keys?**

Aside from the problem of keys often getting lost and locks being expensive to replace, the major drawback of keys from a security perspective is that people who have the keys to a facility have unlimited access and their comings and goings cannot be tracked. An access control system, on the other hand, provides a building's owner-operator with the ability to restrict access to his facilities to certain times of the week or day and to certain areas of the building. There is no longer any need to issue keys to staff at all. Employees, contractors, delivery people, and so on, simply get an access card and/or a code that grants them access to the appropriate doors at the appropriate times of the day and makes movement traceable – who was where, when. When they lose their card or quit their job it is quick and easy to cancel their card and/or change any access codes, if necessary.

## **Which access control product or system is the right one to meet my specific needs?**

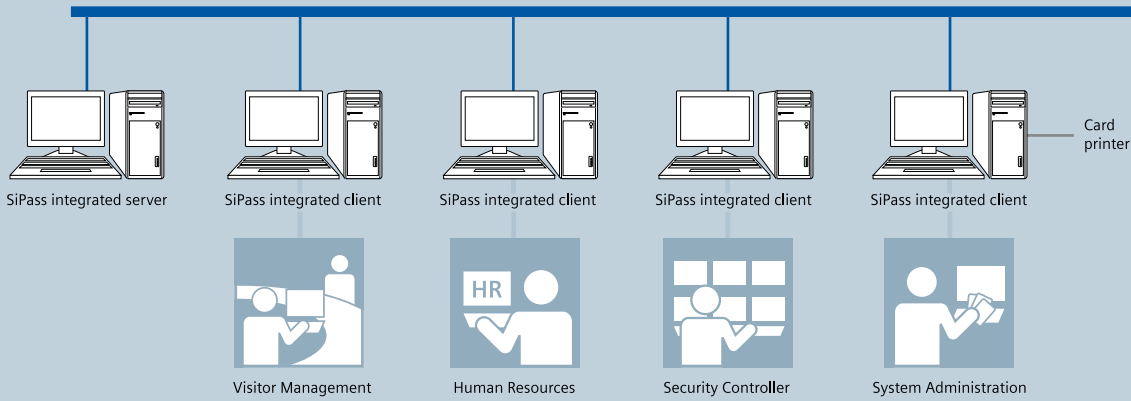
Before you decide which product or system you should purchase, you need to have a very good understanding of what your requirements are. How many doors do you want to control? Do you want to be able to monitor events at all of these doors from a central point, or is it adequate that each of them operates independently? How many people will be using the product or system? Will a common code provide a high enough level of security, or would access cards and PIN codes be more appropriate? Do you have – or want to have – intrusion detection and video surveillance products installed at your site(s) as well? If so, what level of interoperability do you require between your access control, intrusion detection and video surveillance systems?

If you want any kind of central monitoring of events at different doors, you will want a small networked system at a minimum. Depending on your requirements, SiPass Entro would probably be the most appropriate choice. SiPass integrated and Granta on the other hand are the ideal choice for organizations that are very large and/or have special requirements such as the need for time and attendance export, HR application programming interface or Mifare encoding, for example. One of the major advantages of choosing a SiPass access control system is that we protect the investments of our customers by offering a high level of scalability. Scalability means that it is easy to upgrade from our lower-level products and systems to our higher-level ones without any hardware redundancy. For example, you can start with SiPass Single Door Products such as the BC615 compact card reader or the DC800 door controller and upgrade them into a SiPass Entro system later, if required. Or, you can start with a SiPass Entro system and upgrade it to SiPass integrated at some point in the future.

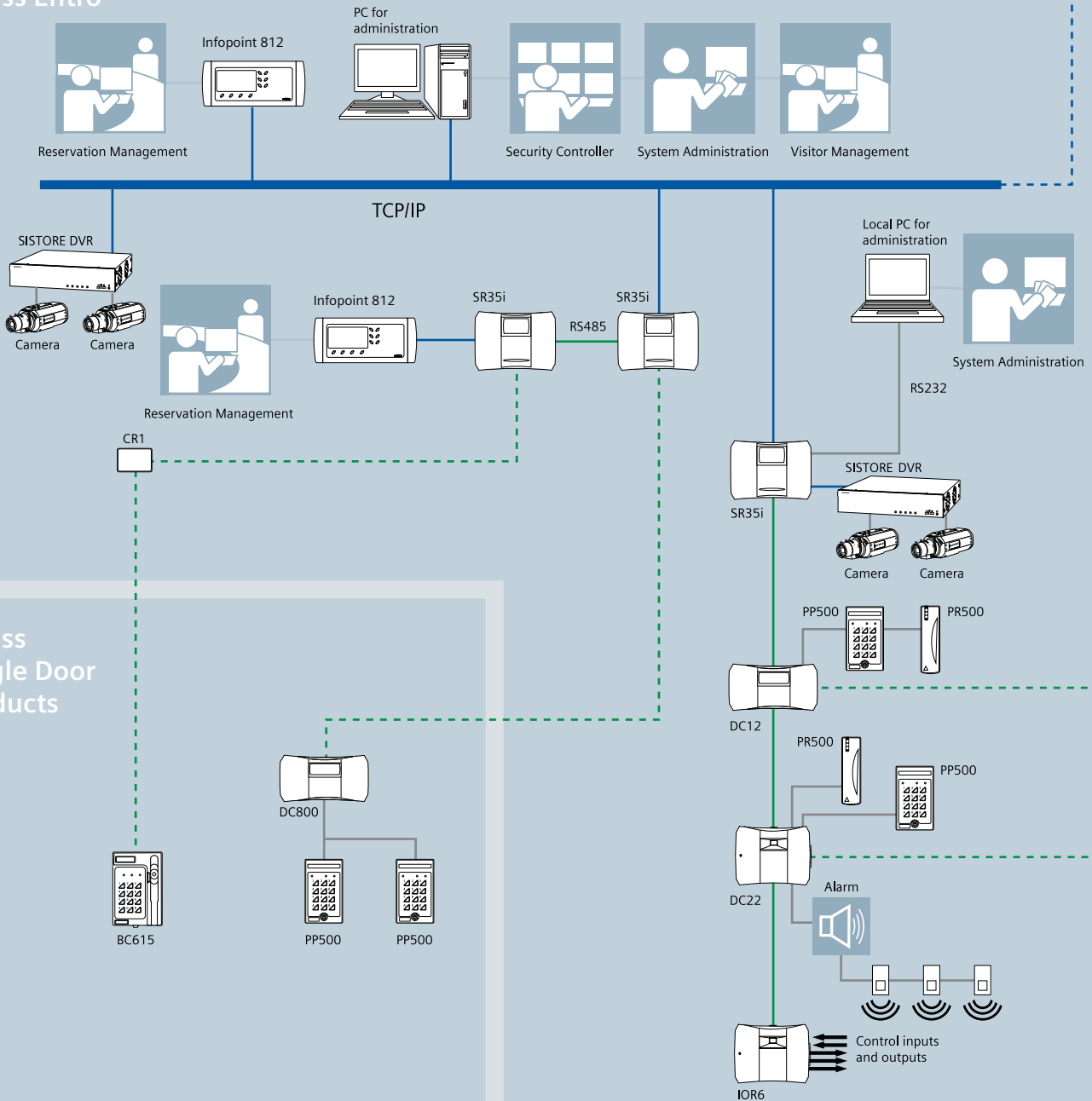
Once you have chosen the right system, you will need to find the right readers and cards to meet your requirements. SiPass readers and cards are always the best choice for use with SiPass systems, as they are specifically tested and qualified for use with our systems. We also offer advanced interfaces between the reader and the system that provide increased functionality and enhanced security.

# SiPass system overview

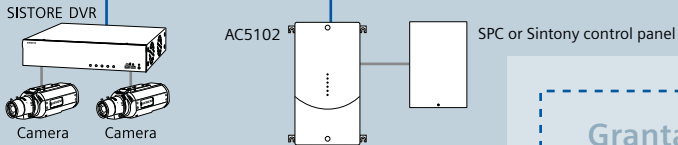
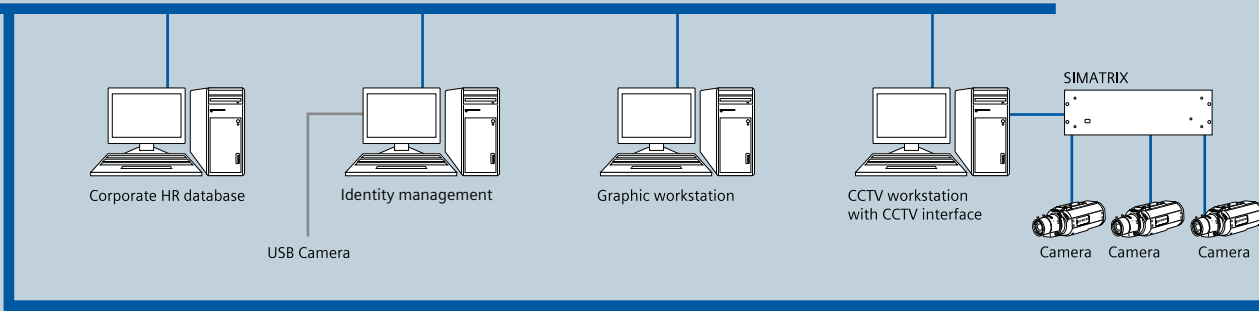
## SiPass integrated



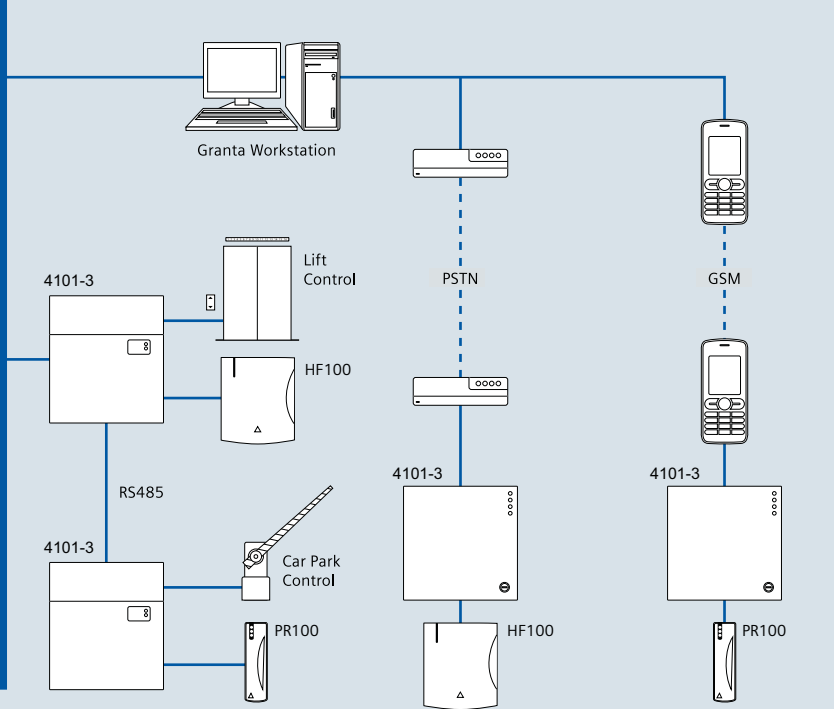
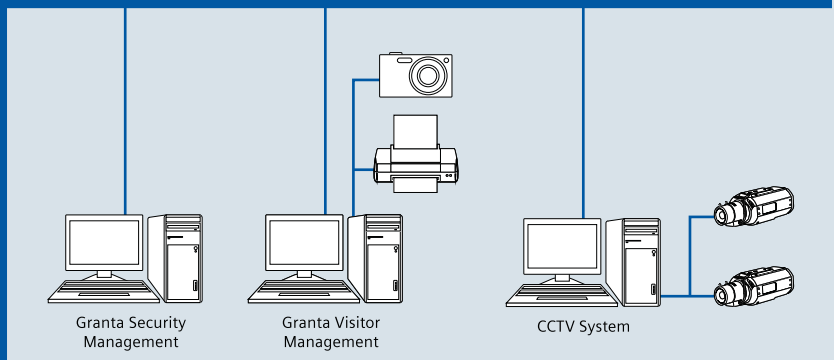
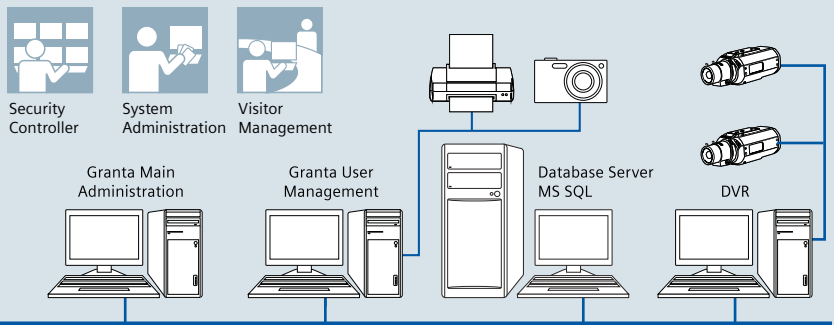
## SiPass Entro



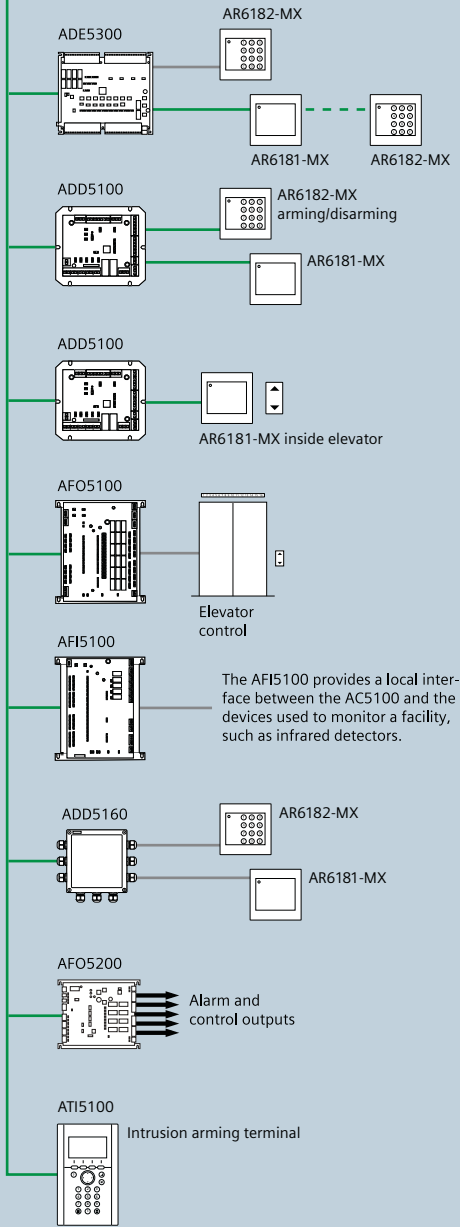
TCP/IP Network



Granta



RS485 network



Security has  
never been simpler





# SiPass Single Door Products



## Robust, reliable and cost-efficient devices for individual doors

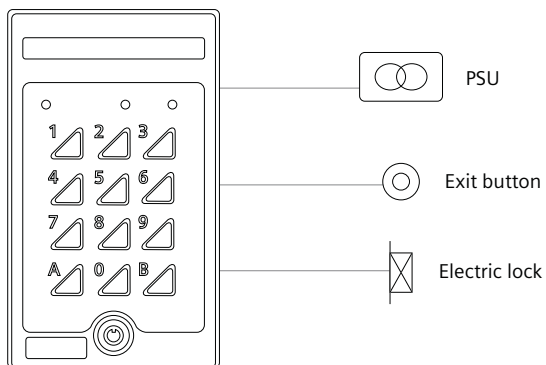
SiPass® Single Door Products are robust, reliable and cost-efficient. The main benefit of installing them is that they eliminate the challenge of managing keys and the cost of replacing locks when a key gets lost. They are also very convenient from a user's perspective.

Our single-door product range includes compact card readers, codelocks and Codoors, as well as products that enable split-mounted single-door applications.

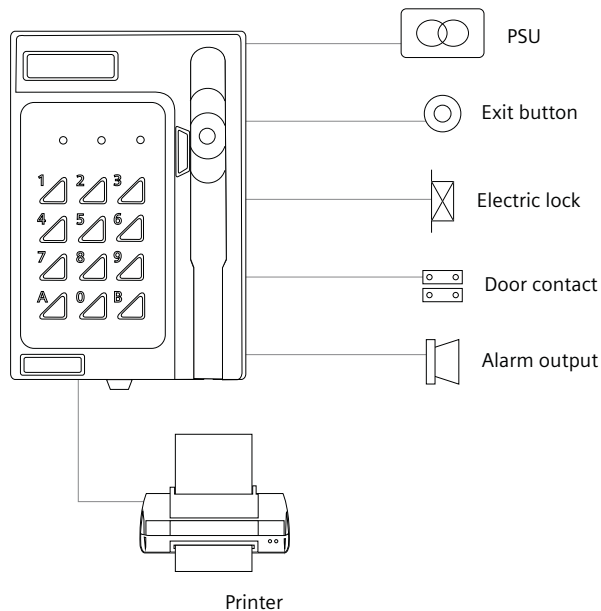
### System highlights

- SiPass Codoor products are battery-powered codelocks that incorporate a keypad, a locking device and a power unit in a single housing that fits directly onto an interior door.
- Fingerprint Codoor reads fingerprints rather than cards.
- SiPass codelocks require no cards, tags or keys – users need only remember a four-digit code.
- SiPass compact card readers are very easy to install and operate, and can be programmed from a built-in keypad.
- The SiPass standalone kit and the DC800 offer a higher level of security, by separating the control device – which is mounted in the secure area – from the reader.

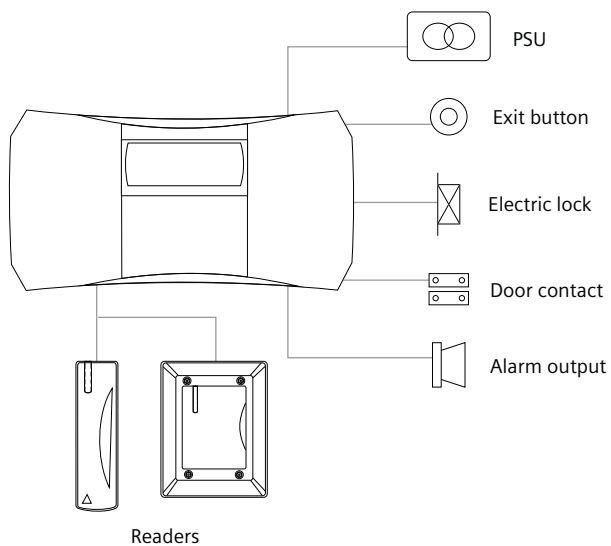
### K42



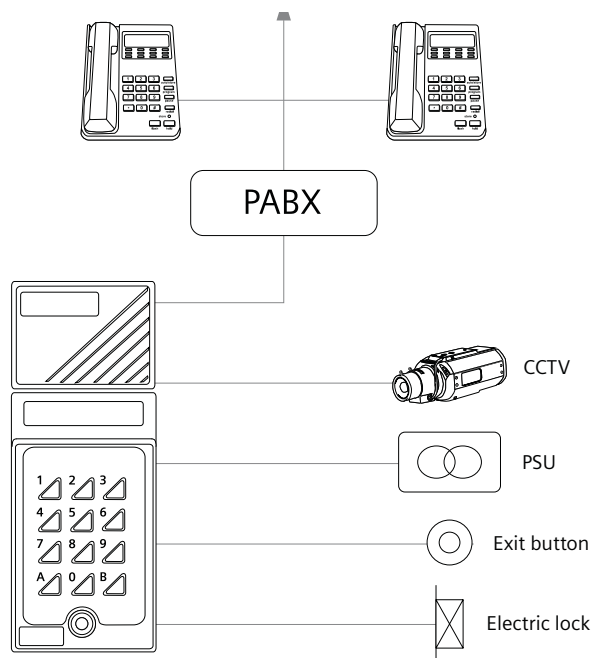
### BC615



### DC800



### SiPass Bewacom





Type

Order No.

CD4000

**Codoor codelock – European lock case standard**

S24246-C8101-A1



CD4000 is a battery-powered codelock that fits directly on an interior door. The programming of codes is carried out directly via the keypad. It is possible to manually change the settings to leave the door unlocked if necessary. The batteries used are standard alkaline or lithium cells.

The CD4000 is suitable for lock cases with a distance of 72 mm between the center of the door handle and the center of the lock cylinder. It is designed for a European standard lock case, following the DIN 18251 standard.

Operating voltage	9 VDC. Two batteries, 9V type 6LR61 (not included).
Operational time	Up to 150,000 openings (lithium batteries), or 50,000 openings (alkaline batteries), or one year, whichever comes first
Code capacity	Nine
Operating temperature	0 to +50 °C
Environment	Indoors, dry
IP rating	IP30
Colour	Stainless steel
Dimensions (W x H x D)	70 x 255 x 54 mm
Weight	1.2 kg

CD3500

**Codoor codelock – Scandinavian lock case standard**

S24246-C8100-A1




CD3500 is a battery-powered codelock that fits directly on an interior door. The programming of codes is carried out directly via the keypad. It is possible to manually change the settings to leave the door unlocked if necessary. The batteries used are standard alkaline or lithium cells.

The CD3500 is suitable for lock cases with a distance of between 105 mm and 116 mm between the center of the door handle and the center of the lock cylinder. It is designed to fit a Scandinavian lock case.

Operating voltage	9 VDC. Two batteries, 9V type 6LR61 (not included).
Operational time	Up to 150,000 openings (lithium batteries) or 50,000 openings (alkaline batteries), or one year, whichever comes first
Code capacity	Nine
Operating temperature	0 to +50 °C
Environment	Indoors, dry
IP rating	IP30
Colour	Stainless steel
Dimensions (W x H x D)	64 x 245 x 47 mm
Weight	0.9 kg

## Single Door Products

### Codoor

Type	Order No.																												
RF30-EM	S54501-F2-A1																												
	<p><b>Wireless Codoor – Scandinavian lock case standard</b></p> <p>RF30-EM is a Codoor unit that can be used either as a standalone product or as a wireless component in a SiPass Entro system. It contains a reader, keypad, controller, lock mechanism and power supply, all in a single housing. It is designed to be mounted directly on an interior door.</p> <p>In standalone mode it is possible to store up to 250 cards and do administration using the built-in keypad.</p> <p>In system mode the RF30-EM is fully online and functions in the same way that the wired doors in the SiPass Entro system do. The wireless functionality operates on a 2.4 GHz license-free frequency band using the Zigbee protocol. The maximum distance between an RF30-EM and the SR35i controller is 25 meters. For distances greater than 25 meters the RF9 router is required (see the SiPass Entro section for more information about RF9.)</p> <p>It is easy to set up RF30-EM as part of a SiPass Entro system by using the installation mode, which indicates the signal strength and reliability of the wireless network.</p> <p>RF30-EM is suitable for lock cases with a distance of between 105 and 116 mm between the center of the door handle and the center of the lock cylinder. It is designed for use with standard Scandinavian lock cases.</p> <table border="0"> <tr> <td>Operating voltage</td> <td>Two 9V type 6LR61 batteries (not included)</td> </tr> <tr> <td>Operational time</td> <td>Approx. one year</td> </tr> <tr> <td>Card technology</td> <td>EM4102 (also known as Miro or Unique 125 kHz)</td> </tr> <tr> <td>Card capacity</td> <td>Online mode: Set by SiPass Entro Offline mode: 250 cards Standalone mode: 250 cards</td> </tr> <tr> <td>Card read distance</td> <td>Up to 3 cm</td> </tr> <tr> <td>Frequency band</td> <td>2.4 GHz</td> </tr> <tr> <td>Indicators</td> <td>3 x LED (red/yellow/green) 1 x buzzer</td> </tr> <tr> <td>Operating temperature</td> <td>0 to +50 °C</td> </tr> <tr> <td>Environment</td> <td>Indoor use only</td> </tr> <tr> <td>IP rating</td> <td>IP30</td> </tr> <tr> <td>Colour</td> <td>Stainless steel</td> </tr> <tr> <td>Dimensions (W x H x D)</td> <td>64 x 285 x 59 mm</td> </tr> <tr> <td>Weight</td> <td>0.76 kg</td> </tr> <tr> <td>Approval</td> <td>CE</td> </tr> </table>	Operating voltage	Two 9V type 6LR61 batteries (not included)	Operational time	Approx. one year	Card technology	EM4102 (also known as Miro or Unique 125 kHz)	Card capacity	Online mode: Set by SiPass Entro Offline mode: 250 cards Standalone mode: 250 cards	Card read distance	Up to 3 cm	Frequency band	2.4 GHz	Indicators	3 x LED (red/yellow/green) 1 x buzzer	Operating temperature	0 to +50 °C	Environment	Indoor use only	IP rating	IP30	Colour	Stainless steel	Dimensions (W x H x D)	64 x 285 x 59 mm	Weight	0.76 kg	Approval	CE
Operating voltage	Two 9V type 6LR61 batteries (not included)																												
Operational time	Approx. one year																												
Card technology	EM4102 (also known as Miro or Unique 125 kHz)																												
Card capacity	Online mode: Set by SiPass Entro Offline mode: 250 cards Standalone mode: 250 cards																												
Card read distance	Up to 3 cm																												
Frequency band	2.4 GHz																												
Indicators	3 x LED (red/yellow/green) 1 x buzzer																												
Operating temperature	0 to +50 °C																												
Environment	Indoor use only																												
IP rating	IP30																												
Colour	Stainless steel																												
Dimensions (W x H x D)	64 x 285 x 59 mm																												
Weight	0.76 kg																												
Approval	CE																												



Type

Order No.

K42

**Codelock with two codes**

S24246-C3552-A1



The K42 is the best-selling codelock in the world. It is compact and easy to use with a modern design that is suitable for either indoor or outdoor mounting. The K42 has a capacity of two four-digit codes. One can be used by residents while the other is used by the property caretaker, for example. All settings are made directly in the unit.

Operating voltage	12 to 24 VAC/DC
Current consumption	8 mA in standby
Inputs	Exit button requests with delay. Two separate for code disable.
Outputs	Voltage-free relay contact, max. 1 A, 28 VDC.
Opening time	1–30 sec.
Code capacity	Two four-digit codes
Operating temperature	-35 to +55 °C
Environment	Indoor or outdoor use (IP54 design). In very exposed locations, use SH2 or SH1 rain cover.
IP rating	IP54
Housing	Cast metal with stainless steel but- tons and security lock
Colour	Grey
Dimensions (W x H x D)	80 x 140 x 40 mm
Weight	0.72 kg

## Single Door Products Codelocks

Type	Order No.
<p><b>K44 Duo</b></p> 	<p><b>S24246-C3553-A1</b></p>
<p><b>Codelock with 30 codes</b></p>	
<p>The K44 Duo is a programmable codelock for one or two doors. It is possible to set separate codes for each door or the same code for both. K44 Duo also provides the option of door control and alarm output. All programming is done via the keypad. The K44 Duo has a code capacity of 20 four-digit codes and 10 six-digit codes. By using the K44 Duo's tamper switch in combination with the SK5 security unit, it is possible to achieve a higher level of security.</p>	
<p>Operating voltage</p>	<p>10 to 35 VDC 8 to 24 VAC</p>
<p>Current consumption</p>	<p>75 mA in standby</p>
<p>Inputs</p>	<p>Two exit button requests with delay. Two separate for codes disable. Two for door contacts. External control of zero opening.</p>
<p>Outputs</p>	<p>Two voltage-free relay contacts, max. 2 A, 28 VDC. Open collector for duress/alert. Open collector for door bell. Tamper switch for alarm connection (normally closed).</p>
<p>Opening time</p>	<p>1-99 seconds programmable from keypad</p>
<p>Door capacity</p>	<p>Two</p>
<p>Code capacity</p>	<p>20 four-digit codes and 10 six-digit codes</p>
<p>Operating temperature</p>	<p>-35 to +55 °C</p>
<p>Environment</p>	<p>Indoor or outdoor use (IP54 design). In very exposed locations, use SH2 or SH1 rain cover.</p>
<p>IP rating</p>	<p>IP54</p>
<p>Housing</p>	<p>Cast metal with stainless steel buttons and security lock</p>
<p>Colour</p>	<p>Grey</p>
<p>Dimensions (W x H x D)</p>	<p>80 x 140 x 40 mm</p>
<p>Weight</p>	<p>0.75 kg</p>



Type

Order No.

BC615

Magnetic stripe card reader

S24246-F3600-A1



BC615 is a compact magnetic stripe card reader for one door that is programmable from the keypad. It can also be used as part of a SiPass Entro system in conjunction with CR1. It can be mounted either indoors or outdoors and it has a built-in calendar clock to make it easy to change security levels. Access registration and printing are possible. The keypad has background illumination. For flush mounting, use the BB4 flush mounting unit.

Interface	RS232 (printer or system)
Serial interfaces	RS232: 9600 bps, no parity, 8 bit, 1 startbit, 1 stopbit.
Operating voltage	12 to 24 VAC/DC
Current consumption	70 mA
Inputs	Exit button request with delay. Door monitoring. Red LED external control (galvanic insulation), max. 12-30 VDC.
Outputs	Voltage-free relay contacts, max. 2 A, 30 VDC. Open collector for alarm/duress, max. 0.5 A, 30 VDC. Open collector for door alarm max. 0.5 A, 30 VDC. Tamper switch internal/external (normally closed), max. 1 A, 30 VDC.
Time schedules	15 (with up to four time zones each)
Time zones	15
Card read distance	N/A
Card capacity	1,000
Operating temperature	-30 to +50 °C. At 90% relative air humidity.
Environment	Indoor or outdoor use (IP54 design). In very exposed locations, use SH4 or SH1 rain cover.
IP rating	IP54
Housing	Cast metal with stainless steel keys and security lock
Colour	Grey
Dimensions (W x H x D)	110 x 160 x 47 mm
Weight	1.3 kg

## Single Door Products Compact Card Readers

Type	Order No.	
BC615-..	BC615-..	
	<p><b>Proximity card readers</b></p> <p>These compact proximity card readers work using Cotag or EM4102 reading technology. They are programmable from the keypad and are intended for use on single doors. They can also be used as part of a SiPass Entro system in conjunction with CR1. The built-in calendar clock makes it easy to change security levels. Access registration and printing are possible. The keypad has background illumination. For flush mounting, use the BB4Prox flush mounting unit.</p> <p>Interface RS232 (printer or system)  Serial interfaces RS232: 9600 bps, no parity, 8 bit, 1 startbit, 1 stopbit.  Operating voltage 12 to 24 VAC/DC  Current consumption 120 mA  Inputs Exit button request with delay. Door monitoring. Red LED external control (galvanic insulation), max. 12-30 VDC.  Outputs Voltage-free relay contacts, max. 2 A, 30 VDC. Open collector for alarm/duress, max. 0.5 A, 30 VDC. Open collector for door alarm max. 0.5 A, 30 VDC. Tamper switch internal/external (normally closed), max. 1 A, 30 VDC.  Time schedules 15 (with up to four time zones each)  Time zones 15  Card read distance Passive cards: approx. 3 cm.  Card capacity 1,000  Operating temperature -30 to +50 °C. At 90% relative air humidity.  Environment Indoor or outdoor use (IP54 design). In very exposed locations, use SH4 or SH1 rain cover.  IP rating IP54  Housing Cast metal with stainless steel keys and security lock  Colour Grey  Dimensions (W x H x D) 110 x 160 x 47 mm  Weight BC615-Cotag: 1.3 kg  BC615-EM: 1.23 kg</p>	
BC615-Cotag	Cotag proximity card reader	S24246-F3601-A1
BC615-EM	EM proximity card reader	S24246-F3602-A1





Type

Order No.

DC800

**Door controller**

S24246-C8200-A1



The DC800 is a powerful and highly secure door controller that can manage access rights for up to 1,000 cardholders. It offers a range of different reader options – card only, group code only, or card plus personal code. It can be connected to readers on both sides of the door to control both entries and exits. Further, it includes a “door control” function – that is, an alarm is activated when the door is not properly closed or is forced open.

The DC800 is designed for split-mounting. A split-mounted solution separates the control device (i.e. the DC800) – which is mounted in a secure area inside the building – from the card reader that is installed outside the locked door. This protects the control device from vandalism attempts and ensures that the only people who are able to program the DC800 (add cardholders, change settings, etc.) are those who have access to the secure area inside the building.

The DC800 provides 10 time schedules that can control when various categories of cardholders are allowed access through the door – that is, cards can be programmed to provide access only at particular times of the day, if desired. It also includes an integrated calendar clock that enables the programming of different access settings for different times of the day or week, or for holidays.

The DC800 is intended for standalone use but it can also be connected to a SiPass Entro system if required, without any hardware redundancy. This is useful if a common point of administration is needed or if there is a requirement for more advanced access control features.

Interface	To readers: BC-Link, Clock&Data or Wiegand (26 bit, 32 bit, 8 bit burst). To host system: RS485 system com bus
Operating voltage	10-40 VDC, 8-28 VAC
Current consumption	200 mA (24 VDC). Reader only.
Inputs	Door contact for indicating closed/open door Exit button request with delay
Outputs	Voltage-free change over contact (lock relay), max. 2 A, 30 VDC Voltage-free change over contact (extra relay) max. 2 A, 30 VDC
Time schedules	10 (using up to eight time zones)
Time zones	80
Door capacity	One
Card capacity	1,000
Code capacity	10
Operating temperature	-35 to +50 °C. 0 to 90% relative humidity
Environment	Indoor
Housing	Wall-mounted housing with lock
Colour	White
Dimensions (W x H x D)	250 x 128 x 54 mm
Weight	0.57 kg

## Single Door Products Kits

Type	Order No.
<p><b>AK1110-CO</b></p> <p><b>DC800 / PR500-Cotag Door Kit</b></p> <p>DC800 / PR500-Cotag Door Kit includes:</p> <ul style="list-style-type: none"> <li>• One DC800 door controller</li> <li>• One PR500-Cotag proximity reader</li> </ul> <p>Note: Siemens' Cotag technology is unique on the market in that it can provide both proximity and hands-free card reading in the same system. All Cotag readers can read both active (long-range) and passive (proximity) Cotag cards and tags, and both types of cards/tags can be mixed in the same system to provide ultimate convenience and cost-efficiency.</p> 	S54507-S6-A1
<p><b>AK1111-CO</b></p> <p><b>DC800 / PR500-Cotag Door Kit (incl. PSU)</b></p> <p>DC800 / PR500-Cotag Door Kit (incl. PSU) includes:</p> <ul style="list-style-type: none"> <li>• One DC800 door controller</li> <li>• One PR500-Cotag card reader</li> <li>• One BA112 power supply unit (not shown)</li> </ul> <p>Note: Siemens' Cotag technology is unique on the market in that it can provide both proximity and hands-free card reading in the same system. All Cotag readers can read both active (long-range) and passive (proximity) Cotag cards and tags, and both types of cards/tags can be mixed in the same system to provide ultimate convenience and cost-efficiency.</p> 	S54507-S25-A1
<p><b>AK1112-CO</b></p> <p><b>DC800 / HD500-Cotag Door Kit (incl. PSU)</b></p> <p>DC800 / HD500-Cotag Door Kit (incl. PSU) includes:</p> <ul style="list-style-type: none"> <li>• One DC800 door controller</li> <li>• One HD500-Cotag heavy duty card reader</li> <li>• One BA112 power supply unit (not shown)</li> </ul> <p>Note: Siemens' Cotag technology is unique on the market in that it can provide both proximity and hands-free card reading in the same system. All Cotag readers can read both active (long-range) and passive (proximity) Cotag cards and tags, and both types of cards/tags can be mixed in the same system to provide ultimate convenience and cost-efficiency.</p> 	S54507-S26-A1
<p><b>AK1110-EM</b></p> <p><b>DC800 / PR500-EM Door Kit</b></p> <p>DC800 / PR500-EM Door Kit includes:</p> <ul style="list-style-type: none"> <li>• One DC800 door controller</li> <li>• One PR500-EM proximity reader</li> </ul> 	S54507-S2-A4



Type

Order No.

BM3

Door entry phone for PABX

S24246-C7900-A1



BM3 is a smart and cost-efficient Bewacom door entry phone that connects to a company's existing PABX internal telephone system in just the same way as any other extension in that system. The BM3 makes it possible to unlock the main entrance door, for example, via the press of a button at any of the telephone extensions that are connected to the company's internal telephone system. Installation is fast and easy with minimal cabling required.


The BM3 also has a built-in codelock with four codes, two of which can be set so that they are only valid during certain times of the day or week. The major advantage of the codelock function is that it allows you to set codes that employees or special visitors can use to enter the building, rather than having to call someone who is already inside to buzz them in.

The BM3 also includes a tamper switch and an output for camera control. The tamper switch is very useful in that it can be used together with the SK5 security unit to eliminate the possibility of opening the lock by using battery power directly on the lock cables.

A video surveillance camera can be connected to BM3 via its output for camera control. The BM3 can trigger the camera to start filming as soon as a visitor pushes a call button on the BM3, for example. This video can either be viewed on a connected monitor directly by the person who picks up the call (the receptionist, for example), or it can simply be saved in the video surveillance log and viewed later, if required.

Interface	Two analog extension cables for PABX
Operating voltage	12 to 24 VAC/DC
Current consumption	60 mA in standby
Inputs	Exit button request with delay. Two inputs for disabling respective codes.
Outputs	Voltage-free relay contact, max. 2 A 28 VDC. Tamper switch for alarm (normally closed). Relay for control of CCTV system.
Calling time	1-99 seconds (can be extended x10)
Opening time	1-99 seconds programmable from keypad (can be extended x10).
Code capacity	Four
Operating temperature	-35 to +50 °C. At 90% relative air humidity.
Environment	Indoor or outdoor use. In very exposed locations, use SH3 or SH1 rain cover.
IP rating	IP54
Housing	Cast metal with stainless steel buttons and security lock. For flush mounting, use BB5 flush mounting kit.
Dimensions (W x H x D)	80 x 200 x 40 mm
Weight	1.11 kg

## Single Door Products SiPass Bewacom

Type	Order No.																												
<b>BM31</b>  	<b>S24246-C7901-A1</b>																												
<b>Single button door entry phone for PABX</b>																													
<p>BM31 is a smart and cost-efficient Bewacom door entry phone that connects to a company's existing PABX internal telephone system in just the same way as any other extension in that system.</p>																													
<p>Since the BM31 makes use of the "hotline" function in PABX systems, it only has one call button to allow calls to a single extension (usually reception, but it can be set to any number in the PABX system). Installation is fast and easy with minimal cabling required.</p>																													
<p>The BM31 also includes a tamper switch and an output for camera control. The tamper switch is very useful in that it can be used together with the SK5 security unit to eliminate the possibility of opening the lock by using battery power directly on the lock cables.</p>																													
<p>A video surveillance camera can be connected to the BM31 via its output for camera control. BM31 can trigger the camera to start filming as soon as a visitor pushes the call button on the BM31, for example. This video can either be viewed on a connected monitor directly by the person who picks up the call (the receptionist, for example), or it can simply be saved in the video surveillance log and viewed later, if required.</p>																													
<table border="0"> <tr> <td data-bbox="392 943 480 965">Interface</td> <td data-bbox="719 943 1023 999">Two analog extension cables for PABX</td> </tr> <tr> <td data-bbox="392 999 564 1021">Operating voltage</td> <td data-bbox="719 999 879 1021">12 to 24 VAC/DC</td> </tr> <tr> <td data-bbox="392 1021 596 1043">Current consumption</td> <td data-bbox="719 1021 887 1043">60 mA in standby</td> </tr> <tr> <td data-bbox="392 1043 456 1066">Inputs</td> <td data-bbox="719 1043 1038 1133">Exit request (with delay). External control of calling. External control of ending call.</td> </tr> <tr> <td data-bbox="392 1144 472 1167">Outputs</td> <td data-bbox="719 1144 1054 1245">Voltage-free relay contact, max. 2 A 28 VDC. Tamper switch for alarm (normally closed). Relay for control of CCTV system.</td> </tr> <tr> <td data-bbox="392 1256 504 1279">Calling time</td> <td data-bbox="719 1256 879 1279">Fixed 30 seconds</td> </tr> <tr> <td data-bbox="392 1279 520 1301">Opening time</td> <td data-bbox="719 1279 871 1301">Fixed 7 seconds</td> </tr> <tr> <td data-bbox="392 1301 520 1323">Code capacity</td> <td data-bbox="719 1301 759 1323">N/A</td> </tr> <tr> <td data-bbox="392 1323 616 1346">Operating temperature</td> <td data-bbox="719 1323 1031 1391">-35 to +50 °C. At 90% relative air humidity.</td> </tr> <tr> <td data-bbox="392 1402 512 1424">Environment</td> <td data-bbox="719 1402 1038 1469">Indoor or outdoor use. In very exposed locations, use SH3 or SH1 rain cover.</td> </tr> <tr> <td data-bbox="392 1480 472 1503">IP rating</td> <td data-bbox="719 1480 767 1503">IP54</td> </tr> <tr> <td data-bbox="392 1503 472 1525">Housing</td> <td data-bbox="719 1503 1046 1615">Cast metal with stainless steel buttons and security lock. For flush mounting, use BB5 flush mounting kit.</td> </tr> <tr> <td data-bbox="392 1626 616 1648">Dimensions (W x H x D)</td> <td data-bbox="719 1626 895 1648">80 x 200 x 40 mm</td> </tr> <tr> <td data-bbox="392 1648 464 1671">Weight</td> <td data-bbox="719 1648 791 1671">1.12 kg</td> </tr> </table>	Interface	Two analog extension cables for PABX	Operating voltage	12 to 24 VAC/DC	Current consumption	60 mA in standby	Inputs	Exit request (with delay). External control of calling. External control of ending call.	Outputs	Voltage-free relay contact, max. 2 A 28 VDC. Tamper switch for alarm (normally closed). Relay for control of CCTV system.	Calling time	Fixed 30 seconds	Opening time	Fixed 7 seconds	Code capacity	N/A	Operating temperature	-35 to +50 °C. At 90% relative air humidity.	Environment	Indoor or outdoor use. In very exposed locations, use SH3 or SH1 rain cover.	IP rating	IP54	Housing	Cast metal with stainless steel buttons and security lock. For flush mounting, use BB5 flush mounting kit.	Dimensions (W x H x D)	80 x 200 x 40 mm	Weight	1.12 kg	
Interface	Two analog extension cables for PABX																												
Operating voltage	12 to 24 VAC/DC																												
Current consumption	60 mA in standby																												
Inputs	Exit request (with delay). External control of calling. External control of ending call.																												
Outputs	Voltage-free relay contact, max. 2 A 28 VDC. Tamper switch for alarm (normally closed). Relay for control of CCTV system.																												
Calling time	Fixed 30 seconds																												
Opening time	Fixed 7 seconds																												
Code capacity	N/A																												
Operating temperature	-35 to +50 °C. At 90% relative air humidity.																												
Environment	Indoor or outdoor use. In very exposed locations, use SH3 or SH1 rain cover.																												
IP rating	IP54																												
Housing	Cast metal with stainless steel buttons and security lock. For flush mounting, use BB5 flush mounting kit.																												
Dimensions (W x H x D)	80 x 200 x 40 mm																												
Weight	1.12 kg																												

SiPass Bewacom –  
Robust and reliable  
door entry phones.



Open the door to  
comprehensive security



# SiPass Entro



## Comprehensive access control

SiPass Entro is a very scalable, flexible, and user-friendly access control system that can monitor and control access to facilities with up to 512 doors and 40,000 cardholders. It enables customized access rights by categories and offers a complete range of reports. System configuration is simple and an extensive range of reader and card options are available.

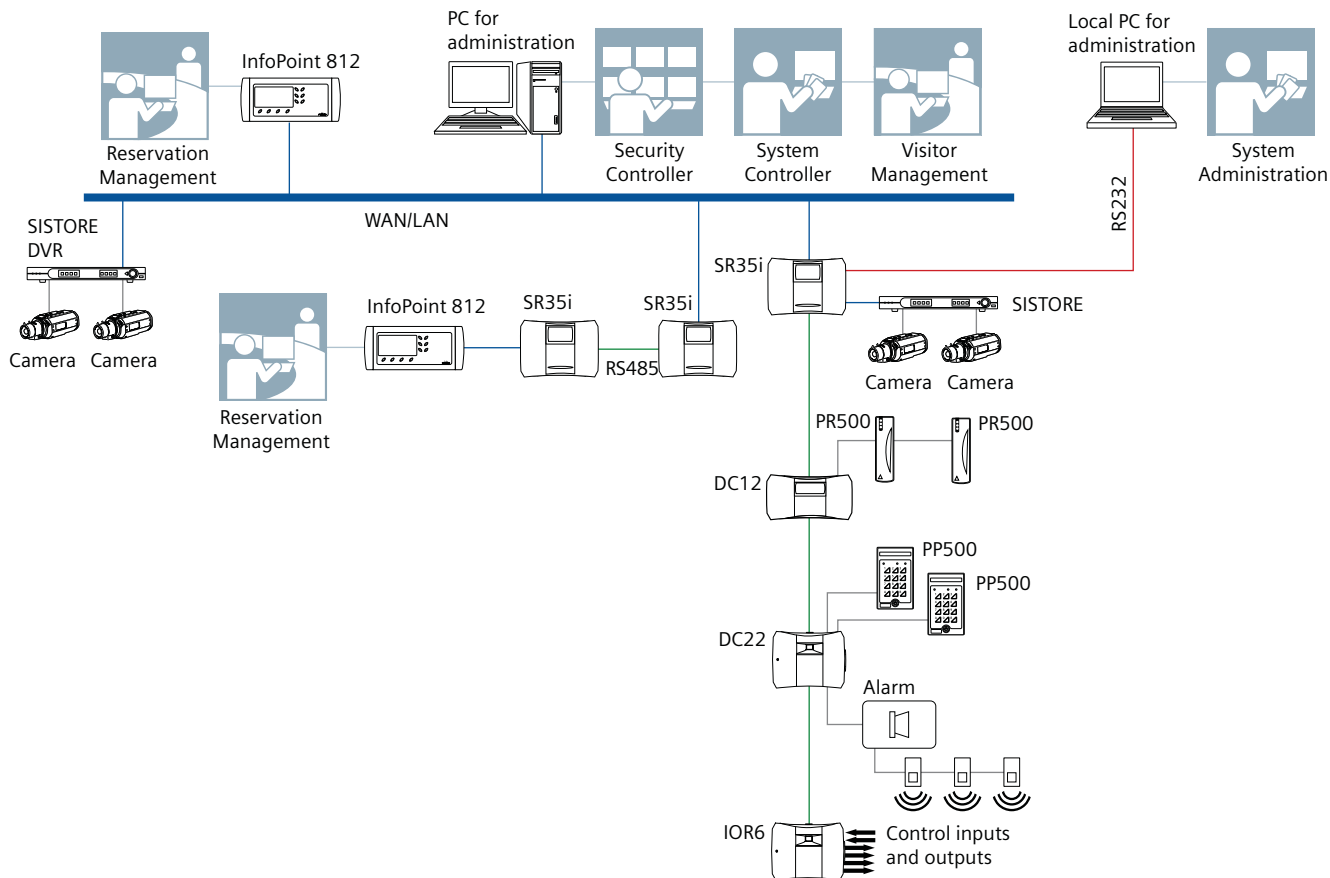
SiPass Entro provides a unique and very smart video recording capability when used in combination with SISTORE digital video recorders from Siemens. Up to 16 SISTORE DVRs and 128 cameras can be connected to SiPass Entro without the need for an additional PC or server. The SiPass Entro software is used to define the events that trigger recording, activate manual recording, and launch the "live view" function. Recorded events can be launched and viewed directly via the event log in the SiPass Entro software along with the status of all connected doors and cameras.

SiPass Entro supports Windows Terminal Server 2003/2008, which enables multi-site card management from a central location. This makes system maintenance very easy – a single software installation can be used to manage up to 10,000 branch sites. There is no need for system know-how at branch sites – an organization's headquarters can provide all the know-how and support for the access control system.

Other noteworthy features in SiPass Entro are its integrated reservation function for rooms and facilities, the ability to create and print personalized cards and badges, its elevator and alarm control capabilities, and its open TCP/IP interface to other systems, such as accounting, and time and attendance.


SiPass Entro also provides a fast and easy upgrade path to SiPass integrated without any hardware redundancy, which makes SiPass Entro a very safe investment for the long term.

# SiPass Entro Diagrams









Type	Order No.								
<p><b>SiPass Entro</b></p>  <p><b>SiPass Entro software</b></p> <p>The SiPass Entro software is Windows-based and very easy to use. It can communicate with system hardware via direct connection (COM), local and global networks (LAN/WAN), TCP/IP or modem. The software supports various operating authorizations – for example, reception personnel may be authorized only to handle card activation while administrators are authorized to implement basic modifications of the system.</p> <p>The software provides sophisticated event control and search functions with graphical icons for door monitoring in addition to common tasks like card administration. It also includes alarm bypass control with alarm status feedback (ASF), anti-passback, roll-call, interlock function, elevator control, photo ID, and many other useful features.</p> <p>The template design tool in the SiPass Entro software makes it possible to design personalized ID cards and print them using standard Windows printer drivers.</p> <p>It is also very easy to define alarm zones using the SiPass Entro software. At each reader or door assigned to an alarm zone, the alarm can be activated or deactivated. SiPass Entro's Alarm Status Feedback (ASF) function can indicate the status (armed/disarmed) of the zone at any reader in the zone (via the red reader LED). In applications that include SISTORE DVRs, the SiPass Entro software fully integrates the DVRs into the access control system, which makes event-triggered recording very easy.</p> <p>An integrated Web-based reservation function is also included in the software. It is ideal for managing access to conference rooms, sport facilities, clubs, and so on. Reservation can be done via the Internet or via an InfoPoint reservation terminal. The software also includes an open TCP/IP interface (BAPSI) to third-party applications.</p> <p>In cases where wireless components (i.e. RF30-EM and RF9) are used in a SiPass Entro system, the SiPass Entro software handles those components in a similar way as it handles wired ones.</p> <p>The SiPass Entro software is available in the following languages: Czech, Danish, Dutch, English, Finnish, French, German, Italian, Norwegian, Polish, Portuguese, Spanish and Swedish.</p> <table border="0"> <tr> <td data-bbox="427 1444 710 1473">System requirements</td> <td data-bbox="758 1444 1093 1713">                     Processor 1 GHz                      512 Mb RAM                      CD-ROM drive.                      VGA colour monitor 1024 x 768.                      Local Area Network connection (or serial port for connection of segment controller/modem).                      Windows 7, Vista, XP SP2, 2000 SP4 or Microsoft Terminal Server 2008/2003 functionality.                 </td> </tr> <tr> <td data-bbox="427 1713 710 1742">Basic network requirements</td> <td data-bbox="758 1713 1093 1792">                     Twisted-pair Ethernet 10/100 Mbit.                      Static or dynamic (DHCP) IP-address for SR35i.                 </td> </tr> <tr> <td data-bbox="427 1825 710 1854">Requirements for modem</td> <td data-bbox="758 1825 1093 1904">                     9600 baud on DTE, Autoanswer disabled, Ignore DTR, Local echo disabled.                 </td> </tr> <tr> <td data-bbox="427 1904 710 1933">Recommendation for modem</td> <td data-bbox="758 1904 1093 1982">                     Watchdog should be included. Will reset the modem if, for example, communication stops.                 </td> </tr> </table>	System requirements	Processor 1 GHz 512 Mb RAM CD-ROM drive. VGA colour monitor 1024 x 768. Local Area Network connection (or serial port for connection of segment controller/modem). Windows 7, Vista, XP SP2, 2000 SP4 or Microsoft Terminal Server 2008/2003 functionality.	Basic network requirements	Twisted-pair Ethernet 10/100 Mbit. Static or dynamic (DHCP) IP-address for SR35i.	Requirements for modem	9600 baud on DTE, Autoanswer disabled, Ignore DTR, Local echo disabled.	Recommendation for modem	Watchdog should be included. Will reset the modem if, for example, communication stops.	<p><b>SiPass Entro</b></p>
System requirements	Processor 1 GHz 512 Mb RAM CD-ROM drive. VGA colour monitor 1024 x 768. Local Area Network connection (or serial port for connection of segment controller/modem). Windows 7, Vista, XP SP2, 2000 SP4 or Microsoft Terminal Server 2008/2003 functionality.								
Basic network requirements	Twisted-pair Ethernet 10/100 Mbit. Static or dynamic (DHCP) IP-address for SR35i.								
Requirements for modem	9600 baud on DTE, Autoanswer disabled, Ignore DTR, Local echo disabled.								
Recommendation for modem	Watchdog should be included. Will reset the modem if, for example, communication stops.								

## SiPass Entro Core Software

Type		Order No.
Entro SW SE	<p><b>SiPass Entro software – Standard edition</b></p> <p>See SiPass Entro for technical overview and note the additional / other specifications:</p> <p>This CD-ROM contains the Standard edition of the SiPass Entro software, one user license and both the installer and end-user documentation. It is for usage in Windows 7, Windows Vista, Windows XP or Windows 2000 environments.</p>	S24246-P8601-A1
Entro SW SEUL	<p><b>Additional license for SiPass Entro software – Standard edition</b></p> <p>See SiPass Entro for technical overview and note the additional / other specifications:</p> <p>An additional license is required for every additional system administrator. Order this product when you require an additional license for the Standard edition of the SiPass Entro software.</p>	S24246-P8600-A1
Entro SW TS	<p><b>SiPass Entro software – Terminal Server edition</b></p> <p>See SiPass Entro for technical overview and note the additional / other specifications:</p> <p>This CD-ROM contains the Terminal Server edition of the SiPass Entro software, one installation key, one user licence and both the installer and end-user documentation. It is for usage in Windows Terminal Server 2008/2003 environments. This edition of the software is required for centralized multi-site administration.</p>	S54511-P3-A1
Entro SW TSUL	<p><b>Additional licence for SiPass Entro software – Terminal Server edition</b></p> <p>See SiPass Entro for technical overview and note the additional / other specifications:</p> <p>An additional licence is required for every additional system administrator. Order this product when you require an additional license for the Terminal Server edition of the SiPass Entro software.</p>	P54511-P4-A1
TG- USB..	 <p><b>Enrolment reader kit</b></p> <p>This reader kit consists of one of the PR500 proximity readers, a desk stand and a USB-RIF/2 interface.</p> <p>For further technical information about PR500 readers, see "Readers" section.</p> <p>For further technical information about the USB-RIF/2 interface, see "Accessories" section.</p>	TG- USB..
TG-EM USB	<p><b>Enrolment reader kit for EM cards and tags</b></p>	S24246-F8656-A1
TG-Cotag USB	<p><b>Enrolment reader kit for Cotag cards and tags</b></p>	S24246-F8657-A1



Type	Order No.																				
<p><b>SR35i..</b></p>  <p><b>Segment controller with wireless capability</b></p> <p>The segment controller is the heart of the SiPass Entro system. It processes all the information in the system and stores the complete database. As a result, the system is robust, easy to maintain and able to operate without a connected PC or server, even when SISTORE DVRs are connected to it. The integrated Web server and flash memory port provide the basis for additional online functions that can be customized for specific customer requirements. The integrated dual port switch makes network installation a simple matter.</p> <p>SiPass Entro segment controller units can communicate using methods such as standard RS485 and TCP/IP networks. These communication channels can be combined as required. Regardless of the physical network used, 128-bit encryption is always applied.</p> <p>Communication between point of administration (e.g. PC-client) and segment controller can be established over RS232, modem or TCP/IP networks.</p> <p>The SR35i comes in four different sizes (door capacities), which makes it very easy to tailor the system to fit the site. A maximum of 16 segment controllers can be used in a single SiPass Entro system.</p> <p>The SR35i includes built-in RF technology to support online wireless components (currently the RF30-EM Codoor and the RF9 router).</p> <p>The sizes (door capacities) are 4+4, 8+8, 16+16 and 32+32, meaning that each segment controller can manage the same number of wired doors as wireless doors (e.g. four wired doors and four wireless doors).</p> <table border="0"> <tr> <td data-bbox="427 1153 742 1176">Interface</td> <td data-bbox="758 1153 1093 1422">Built-in 2-port switches with two RJ45, 10/100 Mbit connections for Ethernet. RS232 to PC, printer or modem with a maximum distance of 25 meters. RS485 Global to other SR35i controllers. RS485 Local to door controllers. Wireless to RF30-EM &amp; RF9 router. Expansion slot for CF8 (compact flash).</td> </tr> <tr> <td data-bbox="427 1429 742 1451">Operating voltage</td> <td data-bbox="758 1429 1093 1478">8-40 VDC 8-30 VAC</td> </tr> <tr> <td data-bbox="427 1485 742 1507">Current consumption</td> <td data-bbox="758 1485 1093 1585">Power save 12V: 2.26 W Full on 12V: 3.13 W Power save 24V: 2.25 W Full on 24V: 3.12 W</td> </tr> <tr> <td data-bbox="427 1592 742 1615">Door capacity</td> <td data-bbox="758 1592 1093 1615">4-32 wired plus 4-32 wireless</td> </tr> <tr> <td data-bbox="427 1621 742 1644">Operating temperature</td> <td data-bbox="758 1621 1093 1644">0 to +50 °C</td> </tr> <tr> <td data-bbox="427 1650 742 1673">Environment</td> <td data-bbox="758 1650 1093 1673">Indoor use only</td> </tr> <tr> <td data-bbox="427 1680 742 1702">Housing</td> <td data-bbox="758 1680 1093 1702">Plastic housing for wall mounting</td> </tr> <tr> <td data-bbox="427 1709 742 1731">Colour</td> <td data-bbox="758 1709 1093 1731">White</td> </tr> <tr> <td data-bbox="427 1738 742 1760">Dimensions (W x H x D)</td> <td data-bbox="758 1738 1093 1760">248 x 182 x 66 mm</td> </tr> <tr> <td data-bbox="427 1767 742 1789">Weight</td> <td data-bbox="758 1767 1093 1789">0.98 kg</td> </tr> </table>	Interface	Built-in 2-port switches with two RJ45, 10/100 Mbit connections for Ethernet. RS232 to PC, printer or modem with a maximum distance of 25 meters. RS485 Global to other SR35i controllers. RS485 Local to door controllers. Wireless to RF30-EM & RF9 router. Expansion slot for CF8 (compact flash).	Operating voltage	8-40 VDC 8-30 VAC	Current consumption	Power save 12V: 2.26 W Full on 12V: 3.13 W Power save 24V: 2.25 W Full on 24V: 3.12 W	Door capacity	4-32 wired plus 4-32 wireless	Operating temperature	0 to +50 °C	Environment	Indoor use only	Housing	Plastic housing for wall mounting	Colour	White	Dimensions (W x H x D)	248 x 182 x 66 mm	Weight	0.98 kg	<p><b>SR35i..</b></p>
Interface	Built-in 2-port switches with two RJ45, 10/100 Mbit connections for Ethernet. RS232 to PC, printer or modem with a maximum distance of 25 meters. RS485 Global to other SR35i controllers. RS485 Local to door controllers. Wireless to RF30-EM & RF9 router. Expansion slot for CF8 (compact flash).																				
Operating voltage	8-40 VDC 8-30 VAC																				
Current consumption	Power save 12V: 2.26 W Full on 12V: 3.13 W Power save 24V: 2.25 W Full on 24V: 3.12 W																				
Door capacity	4-32 wired plus 4-32 wireless																				
Operating temperature	0 to +50 °C																				
Environment	Indoor use only																				
Housing	Plastic housing for wall mounting																				
Colour	White																				
Dimensions (W x H x D)	248 x 182 x 66 mm																				
Weight	0.98 kg																				
<p><b>SR35i/4+4</b></p> <p><b>Segment controller for 4 wired + 4 wireless doors</b></p>	<p><b>S54507-C1-A1</b></p>																				

## SiPass Entro Controller

Type		Order No.
SR35i/8+8	Segment controller for 8 wired + 8 wireless doors	S54507-C1-A2
SR35i/16+16	Segment controller for 16 wired + 16 wireless doors	S54507-C1-A3
SR35i/32+32	Segment controller for 32 wired + 32 wireless doors	S54507-C1-A4



Type

Order No.

DC01

**Door controller for use without reader**


S24246-C8500-A1



The DC01 is designed to monitor and control one door in a SiPass Entro system. When it is connected to a door it continuously reports the status of that door (open or closed) to the system, which increases the level of security in the building. The DC01 cannot be connected to a reader. However, it can be used to unlock the door and thereby grant access to the public, for example, during certain times of the day or week, based on timer settings in the SiPass Entro system.

Interface	To segment controller: RS485 system com bus
Operating voltage	8 to 40 VDC or 8 to 30 VAC
Power consumption	Power save 12V DC: 0.24 W Full on 12V DC: 0.72 W Power save 24V DC: 0.48 W Full on 24V DC: 1.44 W
Inputs	Exit button request with delay. Door contact for indicating closed/open door. Tamper switch for internal control.
Outputs	Voltage-free relay contact, max. 2 A, 30 V
Tamper switch	Yes
Operating temperature	-35 to +50 °C
Environment	Indoor use only
Housing	Plastic box
Colour	White
Dimensions (W x H x D)	120 x 80 x 40 mm
Weight	0.16 kg
Approval	CE

## SiPass Entro Door Modules

Type	Order No.																										
DC12	S24246-C8502-A1																										
	<p><b>Door controller for use with reader(s)</b></p> <p>The DC12 is designed to monitor and control one door in a SiPass Entro or SiPass integrated system. When BC-Link is used, a single DC12 can support two readers and thereby control both entries and exits to a restricted area (anti-passback).</p> <p>The DC12 includes an integrated status display window to simplify installation and service. It is compatible both with SiPass readers and with most third-party readers that support Wiegand and Clock&amp;Data standards.</p> <table border="0"> <tr> <td data-bbox="392 651 480 674">Interface</td> <td data-bbox="719 651 1053 779">To reader: BC-Link, Clock&amp;Data (track 2) or Wiegand (26 bit, 32 bit, 8 bit burst) To controller: RS485 system com bus</td> </tr> <tr> <td data-bbox="392 790 564 813">Operating voltage</td> <td data-bbox="719 790 954 813">8 to 40 VDC, 8 to 30 VAC</td> </tr> <tr> <td data-bbox="392 819 584 842">Power consumption</td> <td data-bbox="719 819 979 947">Without reader Power save 12V DC: 0.59 W Full on 12V DC: 0.76 W Power save 24V DC: 0.63 W Full on 24V DC: 0.79 W</td> </tr> <tr> <td data-bbox="392 958 453 981">Inputs</td> <td data-bbox="719 958 1053 1032">Exit button request with delay. Door contact for indicating closed/open door</td> </tr> <tr> <td data-bbox="392 1043 472 1066">Outputs</td> <td data-bbox="719 1043 1053 1117">Voltage-free relay contact, max. 2 A, 30 V.</td> </tr> <tr> <td data-bbox="392 1106 533 1128">Tamper switch</td> <td data-bbox="719 1106 820 1128">Integrated</td> </tr> <tr> <td data-bbox="392 1135 612 1158">Operating temperature</td> <td data-bbox="719 1135 847 1158">-35 to +50 °C</td> </tr> <tr> <td data-bbox="392 1164 517 1187">Environment</td> <td data-bbox="719 1164 868 1187">Indoor use only</td> </tr> <tr> <td data-bbox="392 1193 472 1216">Housing</td> <td data-bbox="719 1193 1038 1216">Wall-mounted composite housing</td> </tr> <tr> <td data-bbox="392 1223 456 1245">Colour</td> <td data-bbox="719 1223 775 1245">White</td> </tr> <tr> <td data-bbox="392 1252 612 1274">Dimensions (W x H x D)</td> <td data-bbox="719 1252 903 1274">250 x 128 x 54 mm</td> </tr> <tr> <td data-bbox="392 1281 456 1303">Weight</td> <td data-bbox="719 1281 775 1303">0.5 kg</td> </tr> <tr> <td data-bbox="392 1310 472 1332">Approval</td> <td data-bbox="719 1310 743 1332">CE</td> </tr> </table>	Interface	To reader: BC-Link, Clock&Data (track 2) or Wiegand (26 bit, 32 bit, 8 bit burst) To controller: RS485 system com bus	Operating voltage	8 to 40 VDC, 8 to 30 VAC	Power consumption	Without reader Power save 12V DC: 0.59 W Full on 12V DC: 0.76 W Power save 24V DC: 0.63 W Full on 24V DC: 0.79 W	Inputs	Exit button request with delay. Door contact for indicating closed/open door	Outputs	Voltage-free relay contact, max. 2 A, 30 V.	Tamper switch	Integrated	Operating temperature	-35 to +50 °C	Environment	Indoor use only	Housing	Wall-mounted composite housing	Colour	White	Dimensions (W x H x D)	250 x 128 x 54 mm	Weight	0.5 kg	Approval	CE
Interface	To reader: BC-Link, Clock&Data (track 2) or Wiegand (26 bit, 32 bit, 8 bit burst) To controller: RS485 system com bus																										
Operating voltage	8 to 40 VDC, 8 to 30 VAC																										
Power consumption	Without reader Power save 12V DC: 0.59 W Full on 12V DC: 0.76 W Power save 24V DC: 0.63 W Full on 24V DC: 0.79 W																										
Inputs	Exit button request with delay. Door contact for indicating closed/open door																										
Outputs	Voltage-free relay contact, max. 2 A, 30 V.																										
Tamper switch	Integrated																										
Operating temperature	-35 to +50 °C																										
Environment	Indoor use only																										
Housing	Wall-mounted composite housing																										
Colour	White																										
Dimensions (W x H x D)	250 x 128 x 54 mm																										
Weight	0.5 kg																										
Approval	CE																										



Type

Order No.

DC22

**Door controller with alarm control functions**

S24246-C8503-A1



The DC22 is designed to monitor and control one door in a SiPass Entro or SiPass integrated system. When BC-Link is used, a single DC22 can support two readers and thereby control both entries and exits to a restricted area (anti-passback).


The DC22 includes an integrated status display window to simplify installation and service. It is compatible both with SiPass readers and with most third-party readers that support Wiegand and Clock&Data standards.

The major difference between the DC12 and the DC22 is that the DC22 has additional inputs/outputs that support advanced alarm control functions, e.g. alarm status feedback (ASF). These are essential when integration with an intrusion detection system is required. The DC22 also has two outputs for electric locks (day/night lock) as well as separate inputs for open/closed and unlocked/locked door.

Note: The intrusion and ASF functions of the DC22 are only available in SiPass Entro.

Interface	To reader: BC-Link, Clock&Data (track 2) or Wiegand (26 bit, 32 bit, 8 bit burst). To controller: RS485 system com bus.
Operating voltage	8 to 40 VDC, 8 to 30 VAC
Power consumption	Without reader Power save 12V DC: 0.65 W Full on 12V DC: 1.38 W Power save 24V DC: 0.68 W Full on 24V DC: 1.41 W
Inputs	Exit button request with delay. Door contact for indicating closed/open door. Lock status sensor for indicating locked/unlocked door. Alarm bypass activating from a button or a timer. Alarm Status Feedback (ASF). Indication of alarm status (red LED).
Outputs	Voltage-free change over contact (lock relay), max. 2 A, 30V. Voltage-free closing contact (motorlock relay), max. 2 A, 30V. Voltage-free change over contact (alarm bypass relay), max. 2 A, 30V. Voltage-free closing contact (door held warning relay), max. 2 A, 30V. Voltage-free closing contact (pre-warning relay), max. 2 A, 30V. Voltage-free closing contact (alert relay), max. 2 A, 30V.
Tamper switch	Integrated
Operating temperature	-35 to +50 °C
Environment	Indoor use only
Housing	Wall-mounted composite housing
Colour	White
Dimensions (W x H x D)	248 x 182 x 55 mm
Weight	0.7 kg
Approval	CE

## SiPass Entro Door Modules

Type	Order No.																												
RF30-EM	S54501-F2-A1																												
	<p><b>Wireless Codoor – Scandinavian lock case standard</b></p> <p>RF30-EM is a Codoor unit that can be used either as a standalone product or as a wireless component in a SiPass Entro system. It contains a reader, keypad, controller, lock mechanism and power supply, all in a single housing. It is designed to be mounted directly on an interior door.</p> <p>In standalone mode it is possible to store up to 250 cards and do administration using the built-in keypad.</p> <p>In system mode the RF30-EM is fully online and functions in the same way that the wired doors in the SiPass Entro system do. The wireless functionality operates on a 2.4 GHz license-free frequency band using the Zigbee protocol. The maximum distance between an RF30-EM and the SR35i controller is 25 meters. For distances greater than 25 meters the RF9 router is required (see the SiPass Entro section for more information about RF9.)</p> <p>It is easy to set up RF30-EM as part of a SiPass Entro system by using the installation mode, which indicates the signal strength and reliability of the wireless network.</p> <p>RF30-EM is suitable for lock cases with a distance of between 105 and 116 mm between the center of the door handle and the center of the lock cylinder. It is designed for use with standard Scandinavian lock cases.</p> <table border="0"> <tr> <td>Operating voltage</td> <td>Two 9V type 6LR61 batteries (not included)</td> </tr> <tr> <td>Operational time</td> <td>Approx. one year</td> </tr> <tr> <td>Card technology</td> <td>EM4102 (also known as Miro or Unique 125 kHz)</td> </tr> <tr> <td>Card capacity</td> <td>Online mode: Set by SiPass Entro Offline mode: 250 cards Standalone mode: 250 cards</td> </tr> <tr> <td>Card read distance</td> <td>Up to 3 cm</td> </tr> <tr> <td>Frequency band</td> <td>2.4 GHz</td> </tr> <tr> <td>Indicators</td> <td>3 x LED (red/yellow/green) 1 x buzzer</td> </tr> <tr> <td>Operating temperature</td> <td>0 to +50 °C</td> </tr> <tr> <td>Environment</td> <td>Indoor use only</td> </tr> <tr> <td>IP rating</td> <td>IP30</td> </tr> <tr> <td>Colour</td> <td>Stainless steel</td> </tr> <tr> <td>Dimensions (W x H x D)</td> <td>64 x 285 x 59 mm</td> </tr> <tr> <td>Weight</td> <td>0.76 kg</td> </tr> <tr> <td>Approval</td> <td>CE</td> </tr> </table>	Operating voltage	Two 9V type 6LR61 batteries (not included)	Operational time	Approx. one year	Card technology	EM4102 (also known as Miro or Unique 125 kHz)	Card capacity	Online mode: Set by SiPass Entro Offline mode: 250 cards Standalone mode: 250 cards	Card read distance	Up to 3 cm	Frequency band	2.4 GHz	Indicators	3 x LED (red/yellow/green) 1 x buzzer	Operating temperature	0 to +50 °C	Environment	Indoor use only	IP rating	IP30	Colour	Stainless steel	Dimensions (W x H x D)	64 x 285 x 59 mm	Weight	0.76 kg	Approval	CE
Operating voltage	Two 9V type 6LR61 batteries (not included)																												
Operational time	Approx. one year																												
Card technology	EM4102 (also known as Miro or Unique 125 kHz)																												
Card capacity	Online mode: Set by SiPass Entro Offline mode: 250 cards Standalone mode: 250 cards																												
Card read distance	Up to 3 cm																												
Frequency band	2.4 GHz																												
Indicators	3 x LED (red/yellow/green) 1 x buzzer																												
Operating temperature	0 to +50 °C																												
Environment	Indoor use only																												
IP rating	IP30																												
Colour	Stainless steel																												
Dimensions (W x H x D)	64 x 285 x 59 mm																												
Weight	0.76 kg																												
Approval	CE																												





Type

Order No.

RF9

**Wireless router**

RF9 extends the radio link between the SR35i and the RF30-EM. It also acts as a tool for measuring radio coverage. It includes three LEDs to indicate signal strength and communication quality.



Battery	For test purposes 9 V. Type: 6LR61
Operating voltage	8 to 30 VAC 8 to 40 VDC
Current consumption	Average: 40 mA Peak: 110 mA (8 VDC)
Frequency band	2.4 GHz
Indicators	3 x LED (red/yellow/green)
Operating temperature	-10 to +55 °C
Environment	Indoor use only
IP rating	IP30
Colour	Off-white, RAL9002
Dimensions (Ø x H)	110 x 48 mm (with socket)
Weight	0.10 kg
Approval	CE

S54505-B1-A1

## SiPass Entro Signal Modules




Type	Order No.
<b>IOR6</b>  	<b>S24246-C8501-A1</b>
<b>IO relay central</b>	<p>IOR6 is a general relay central designed for use with SiPass Entro and SiPass integrated. Its four inputs and six outputs can be used for applications such as common alarm outputs, fire alarm inputs, elevator control, machine control or door control (in reservation applications). IOR6 can also be used for timer functions.</p>
<p>Please note in a SiPass Entro system, a maximum of 32 IOR6 units can be used for elevator control (for up to 192 floors). For other purposes, as many as 512 IOR6 units can be used in a SiPass Entro system; note, however, that the combined number of doors and IOR6 units connected to a single SiPass Entro system cannot exceed 512.</p>	
Interface	To segment controller: RS485 system com bus.
Operating voltage	8-40 VDC 8-30 VAC
Power consumption	Power save 12V DC: 0.24 W Full on 12V DC: 1.57 W Power save 24V DC: 0.26 W Full on 24V DC: 2.57 W
Inputs	Four remote control inputs. Tamper switch for internal alarm.
Outputs	Two voltage-free change over relay contacts, max. 0.9 A, 60 V (2 A, 30 V). Four voltage-free closing relay contacts, max. 0.9 A, 60 V (2 A, 30 V). Six extra outputs which operate in parallel with above.
Tamper switch	Yes
Operating temperature	-35 to +50 °C
Environment	Indoor use only
Housing	Wall-mounted composite housing
Colour	White
Dimensions (W x H x D)	248 x 182 x 55 mm
Weight	0.7 kg
Approval	CE





Type	InfoPoint	Order No.																
IP812..	<p data-bbox="427 376 1093 560">InfoPoint is used as a reservation terminal for SiPass Entro and has an integrated function to send and receive information from/to the segment controller (acting as a web server). The InfoPoint uses TCP/IP and works similarly to a web browser in a PC. The terminal includes a color screen and keys for navigating. InfoPoint also has a proximity reader to identify the person who wants to use the unit (either Cotag, or EM reading technology).</p> <table border="0" data-bbox="427 600 1093 996"> <tr> <td data-bbox="427 600 518 629">Interface</td> <td data-bbox="758 600 1093 651">Standard TCP/IP LAN connection, 10BaseT connector. Type RJ45.</td> </tr> <tr> <td data-bbox="427 656 603 685">Operating voltage</td> <td data-bbox="758 656 1093 730">12-24VDC, 12-20VAC. Absolute maximum rating: 10-28VDC / 12-20 VAC</td> </tr> <tr> <td data-bbox="427 734 635 763">Current consumption</td> <td data-bbox="758 734 1093 763">540mA @12VDC, 250mA@24VDC</td> </tr> <tr> <td data-bbox="427 768 497 797">Screen</td> <td data-bbox="758 768 1093 819">Colour TFT screen with the resolution 400 x 240 and 256 colours.</td> </tr> <tr> <td data-bbox="427 824 651 853">Operating temperature</td> <td data-bbox="758 824 1093 853">+5 to +40 °C</td> </tr> <tr> <td data-bbox="427 857 555 887">Environment</td> <td data-bbox="758 857 1093 887">Indoor use only</td> </tr> <tr> <td data-bbox="427 891 513 920">Housing</td> <td data-bbox="758 891 1093 965">Robust stainless steel housing and a strong polycarbonate film is covering the TFT-screen.</td> </tr> <tr> <td data-bbox="427 969 657 999">Dimensions (W x H x D)</td> <td data-bbox="758 969 1093 999">430 x 190 x 58 mm</td> </tr> </table>	Interface	Standard TCP/IP LAN connection, 10BaseT connector. Type RJ45.	Operating voltage	12-24VDC, 12-20VAC. Absolute maximum rating: 10-28VDC / 12-20 VAC	Current consumption	540mA @12VDC, 250mA@24VDC	Screen	Colour TFT screen with the resolution 400 x 240 and 256 colours.	Operating temperature	+5 to +40 °C	Environment	Indoor use only	Housing	Robust stainless steel housing and a strong polycarbonate film is covering the TFT-screen.	Dimensions (W x H x D)	430 x 190 x 58 mm	IP812..
Interface	Standard TCP/IP LAN connection, 10BaseT connector. Type RJ45.																	
Operating voltage	12-24VDC, 12-20VAC. Absolute maximum rating: 10-28VDC / 12-20 VAC																	
Current consumption	540mA @12VDC, 250mA@24VDC																	
Screen	Colour TFT screen with the resolution 400 x 240 and 256 colours.																	
Operating temperature	+5 to +40 °C																	
Environment	Indoor use only																	
Housing	Robust stainless steel housing and a strong polycarbonate film is covering the TFT-screen.																	
Dimensions (W x H x D)	430 x 190 x 58 mm																	
IP812-EM	<b>InfoPoint featuring EM reading technology</b>	S54513-Z51-A1																
IP812-Cotag	<b>InfoPoint featuring Cotag reading technology</b>	S54513-Z53-A1																
CF8	<p data-bbox="427 1301 1093 1420"><b>Memory card</b></p> <p data-bbox="427 1346 1093 1420">CF8 is a memory card for the web-based reservation feature in SiPass Entro. It is an accessory to be mounted in one of the segment controllers. It is shipped configured for reservation functions in SiPass Entro.</p>	S24246-Z8651-A1																




## SiPass Entro Kits

Type	Order No.
<p><b>AK2100-CO</b></p>  <p><b>SiPass Entro PR500-Cotag Starter Kit for two doors</b></p> <p>The SiPass Entro PR500-Cotag Starter Kit includes everything you need to set up a two-door access control system. This kit can easily be complemented with one or more door kits to create a larger access control system.</p> <p>Siemens' Cotag technology is unique on the market in that it can provide both proximity and hands-free card reading in the same system. All Cotag readers can read both active (long-range) and passive (proximity) Cotag cards and tags, and both types of cards/tags can be mixed in the same system to provide ultimate convenience and cost-efficiency.</p> <p>The kit includes:</p> <ul style="list-style-type: none"> <li>• One SR35i/4+4 segment controller</li> <li>• SiPass Entro software – Standard edition</li> <li>• Two DC12 door controllers</li> <li>• Two PR500-Cotag proximity readers</li> <li>• Twenty Cotag cards</li> </ul>	S54507-S12-A1
<p><b>AK2101-CO</b></p>  <p><b>SiPass Entro PR500-Cotag Starter Kit for four doors</b></p> <p>The SiPass Entro PR500-Cotag Starter Kit includes everything you need to set up a four-door access control system. This kit can easily be complemented with up to four additional door kits to create a larger system.</p> <p>Siemens' Cotag technology is unique on the market in that it can provide both proximity and hands-free card reading in the same system. All Cotag readers can read both active (long-range) and passive (proximity) Cotag cards and tags, and both types of cards/tags can be mixed in the same system to provide ultimate convenience and cost-efficiency.</p> <p>The kit includes:</p> <ul style="list-style-type: none"> <li>• One SR35i/8+8 segment controller</li> <li>• SiPass Entro software – Standard edition</li> <li>• Four DC12 door controllers</li> <li>• Four PR500-Cotag proximity readers</li> </ul>	S54511-S14-A1
<p><b>AK2301-CO</b></p>  <p><b>SiPass Entro HD500-Cotag Starter Kit for four doors</b></p> <p>The SiPass Entro HD500-Cotag Starter Kit includes everything you need to set up a four-door access control system. This kit can easily be complemented with up to four additional door kits to create a larger system.</p> <p>Siemens' Cotag technology is unique on the market in that it can provide both proximity and hands-free card reading in the same system. All Cotag readers can read both active (long-range) and passive (proximity) Cotag cards and tags, and both types of cards/tags can be mixed in the same system to provide ultimate convenience and cost-efficiency.</p> <p>The kit includes:</p> <ul style="list-style-type: none"> <li>• One SR35i/8+8 segment controller</li> <li>• SiPass Entro software – Standard edition</li> <li>• Four DC12 door controllers</li> <li>• Four HD500-Cotag heavy-duty proximity readers</li> </ul>	S54511-S16-A1



Type	Order No.
<p><b>AK2110-CO</b></p> <p><b>SiPass Entro PR500-Cotag Door Kit</b></p> <p>SiPass Entro PR500-Cotag Door Kit includes:</p> <ul style="list-style-type: none"> <li>• One DC12 door controller</li> <li>• One PR500-Cotag proximity reader</li> </ul> <p>Note: Siemens' Cotag technology is unique on the market in that it can provide both proximity and hands-free card reading in the same system. All Cotag readers can read both active (long-range) and passive (proximity) Cotag cards and tags, and both types of cards/tags can be mixed in the same system to provide ultimate convenience and cost-efficiency.</p> 	<p>S54507-S4-A1</p>
<p><b>AK2111-CO</b></p> <p><b>SiPass Entro PP500-Cotag Door Kit</b></p> <p>SiPass Entro PP500-Cotag Door Kit includes:</p> <ul style="list-style-type: none"> <li>• One DC12 door controller</li> <li>• One PP500-Cotag heavy duty card and PIN reader</li> </ul> <p>Note: Siemens' Cotag technology is unique on the market in that it can provide both proximity and hands-free card reading in the same system. All Cotag readers can read both active (long-range) and passive (proximity) Cotag cards and tags, and both types of cards/tags can be mixed in the same system to provide ultimate convenience and cost-efficiency.</p> 	<p>S54507-S18-A1</p>
<p><b>AK2112-CO</b></p> <p><b>SiPass Entro SP500-Cotag Door Kit</b></p> <p>SiPass Entro SP500-Cotag Door Kit includes:</p> <ul style="list-style-type: none"> <li>• One DC12 door controller</li> <li>• One SP500-Cotag switch-plate card reader</li> </ul> <p>Note: Siemens' Cotag technology is unique on the market in that it can provide both proximity and hands-free card reading in the same system. All Cotag readers can read both active (long-range) and passive (proximity) Cotag cards and tags, and both types of cards/tags can be mixed in the same system to provide ultimate convenience and cost-efficiency.</p> 	<p>S54507-S16-A1</p>
<p><b>AK2113-CO</b></p> <p><b>SiPass Entro PM500-Cotag Door Kit</b></p> <p>SiPass Entro PM500-Cotag Door Kit includes:</p> <ul style="list-style-type: none"> <li>• One DC12 door controller</li> <li>• One PM500-Cotag panel mounted card reader</li> </ul> <p>Note: Siemens' Cotag technology is unique on the market in that it can provide both proximity and hands-free card reading in the same system. All Cotag readers can read both active (long-range) and passive (proximity) Cotag cards and tags, and both types of cards/tags can be mixed in the same system to provide ultimate convenience and cost-efficiency.</p> 	<p>S54507-S23-A1</p>

## SiPass Entro Kits

Type	Order No.
<p><b>AK2114-CO</b></p>  <p><b>SiPass Entro HF500-Cotag Door Kit</b></p> <p>SiPass Entro HF500-Cotag Door Kit includes:</p> <ul style="list-style-type: none"> <li>• One DC12 door controller</li> <li>• One HF500-Cotag hands-free reader</li> </ul> <p>Note: Siemens' Cotag technology is unique on the market in that it can provide both proximity and hands-free card reading in the same system. All Cotag readers can read both active (long-range) and passive (proximity) Cotag cards and tags, and both types of cards/tags can be mixed in the same system to provide ultimate convenience and cost-efficiency.</p>	S54507-S24-A1
<p><b>AK2100-EM</b></p>  <p><b>SiPass Entro PR500-EM Starter Kit for two doors</b></p> <p>The SiPass Entro PR500-EM Starter Kit includes everything you need to set up a two-door access control system. This kit can easily be complemented with one or more door kits to create a larger access control system.</p> <p>The starter kit includes:</p> <ul style="list-style-type: none"> <li>• One SR35i/4+4 segment controller</li> <li>• SiPass Entro software – Standard edition</li> <li>• Two DC12 door controllers</li> <li>• Two PR500-EM proximity readers</li> <li>• Twenty EM cards</li> </ul>	S54507-S2-A5
<p><b>AK2101-EM</b></p>  <p><b>SiPass Entro PR500-EM Starter Kit for four doors</b></p> <p>The SiPass Entro PR500-EM Starter Kit includes everything you need to set up a four-door access control system. This kit can easily be complemented with up to four additional door kits to create a larger system.</p> <p>The kit includes:</p> <ul style="list-style-type: none"> <li>• One SR35i/8+8 segment controller</li> <li>• SiPass Entro software – Standard edition</li> <li>• Four DC12 door controllers</li> <li>• Four PR500-EM proximity readers</li> </ul>	S54511-S15-A1
<p><b>AK2301-EM</b></p>  <p><b>SiPass Entro HD500-EM Starter Kit for four doors</b></p> <p>The SiPass Entro HD500-EM Starter Kit includes everything you need to set up a four-door access control system. This kit can easily be complemented with up to four additional door kits to create a larger system.</p> <p>The kit includes:</p> <ul style="list-style-type: none"> <li>• One SR35i/8+8 segment controller</li> <li>• SiPass Entro software – Standard edition</li> <li>• Four DC12 door controllers</li> <li>• Four HD500-EM heavy-duty proximity readers</li> </ul>	S54511-S17-A1

## SiPass Entro Kits



2

Type

Order No.

AK2110-EM

**SiPass Entro PR500-EM Door Kit**

S54507-S2-A6



The PR500-EM Door Kit includes:

- One DC12 door controller
- One PR500-EM reader

AK2200

**SiPass Entro Controller Kit**

S54507-S8-A1



The SiPass Entro Controller Kit includes:

- One four-door segment controller
- SiPass Entro software - Standard edition

AK2110-MX

**SiPass Entro AR6111-MX Mifare Door Kit**

S54507-S3-A1



The SiPass Entro AR6111-MX Mifare Door Kit includes:

- One DC12 door controller
- One AR6111-MX reader

AK2111-MX

**SiPass Entro MF1040 Door Kit**


S54507-S17-A1



The SiPass Entro MF1040 Door Kit includes:

- One DC12 door controller
- One MF1040 smart card reader

## SiPass Entro Kits

Type	Order No.
AK2110-MG	S54507-S19-A1
 The image shows the components of the SiPass Entro BC16 Door Kit. It includes a white DC12 door controller mounted on a wall and a white BC16 reader mounted on a door. A black cable connects the two devices.	
<b>SiPass Entro BC16 Door Kit</b>	
The SiPass Entro BC16 Door Kit includes:	
<ul style="list-style-type: none"><li>• One DC12 door controller</li><li>• One BC16 reader</li></ul>	



A close-up photograph of a hand in a dark suit jacket turning a silver door handle. The background is a blurred office interior with blue lighting and other people in the distance.

**SIEMENS**

# Open the door to comprehensive security... install SiPass Entro!

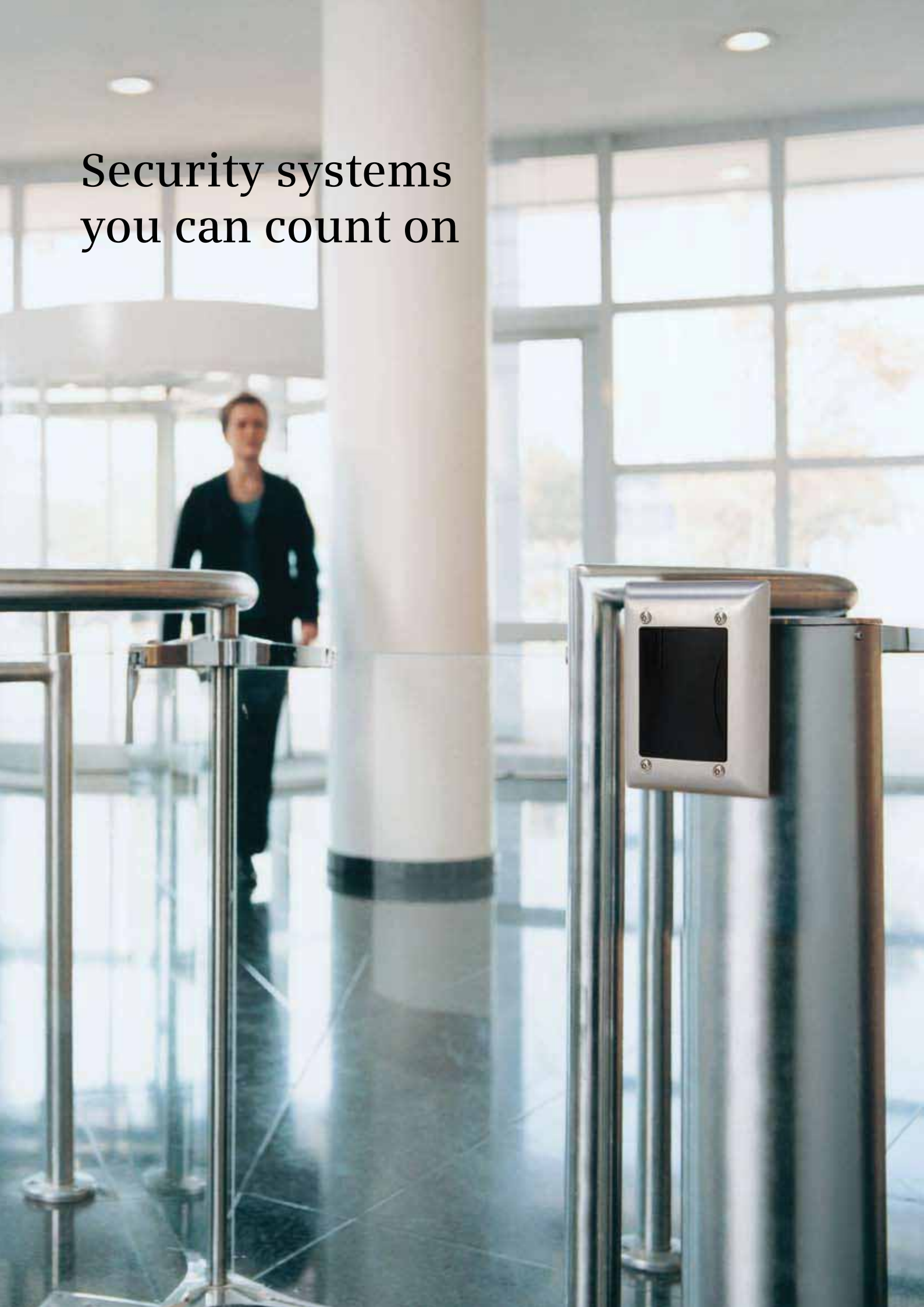
Answers for infrastructure.

SiPass Entro is a very scalable, flexible, and user-friendly access control system that can monitor and control access to facilities with up to 512 doors and 40,000 cardholders. It enables customized access rights by categories and offers a complete range of reports. System configuration is simple and an extensive range of reader and card options are available. SiPass Entro supports Windows Terminal Server 2003/2008, which enables multi-site card management from a central location. This makes system maintenance very easy – a single

software installation can be used to manage up to 10,000 branch sites. There is no need for system know-how at branch sites – an organization's headquarters can provide all the know-how and support for the access control system. SiPass Entro also provides a unique and very smart video recording capability when used in combination with SISTORE digital video recorders from Siemens. Up to 16 SISTORE DVRs and 128 cameras can be connected to SiPass Entro without the need for an additional PC or server.

[www.siemens.com/securityproducts](http://www.siemens.com/securityproducts)

Security systems  
you can count on





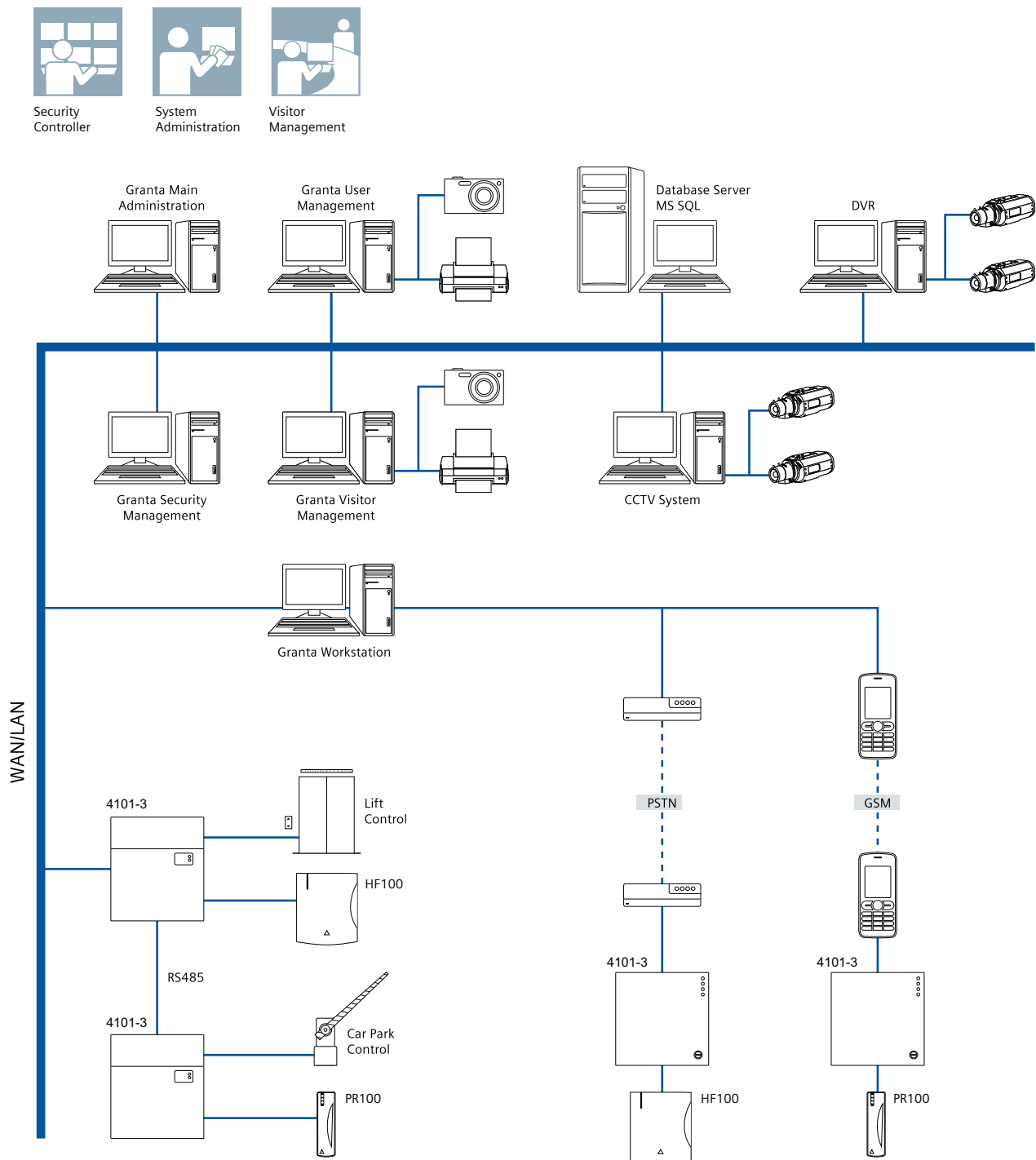
## Security & freedom in perfect harmony

Granta is a modular access control and security management system that supports sites that range in size from as few as four doors to up to 4,096 doors and 100,000 cardholders. Regardless of system size, it provides round-the-clock protection, enabling you to control the movement of personnel and vehicles, manage visitor access, control and monitor CCTV systems, protect staff and assets, and even remotely administer and secure sister sites around the world. Granta is designed for use by security staff, not IT specialists. Training staff to use the full range of features is a quick and easy process.

### System highlights

- Flexible, powerful and secure
- Cost-efficient and easy to use
- Supports Cotag hands free technology as well as a broad range of other reading technologies
- Multi-system management capability
- Easy to integrate with CCTV, intrusion and other systems

# Granta Diagrams





Type

Order No.

4890



#### Granta core software package

Granta core software provides a comprehensive suite of security management tools based on the industry standard Microsoft SQL database. The software is available in multiple languages and is fully password protected to allow the system to be used by operators with many different privilege levels, set according to their function and seniority. Granta offers both local and global anti-passback, card numbers of up to 10 digits, four or six-digit PINs, duress PIN function, a two-year holiday calendar, a daylight saving function, and a great deal more. With Granta core software you can connect multiple PC workstations via your network, to enable distributed monitoring and control of the system across thousands of remote sites. Granta software also provides comprehensive reports to facilitate full management control and informed decision making.

The Granta core software package can also be complemented with separately licensable application software to meet specific user needs.

Standard features of Granta:

- Import/ export data facility
- Configurable Logical Input/Output Control (CLIC)
- User-defined data fields
- Integrated smart card programmer functionality in cardholder screen
- History log with automatic deletion of old data
- Operator session log
- Audit trail
- History reports
- Archived data reports
- Time recording
- European working time directive reports
- Selective card monitoring
- Selective access point monitor
- Multiple alarm conditions
- Alarm priorities
- Alarm acknowledge options
- Input monitoring

System requirements:

- Pentium IV 1.2 GHz
- 512 MB RAM
- 6.4 GB hard drive
- SVGA graphics card

Note: Server requirements are higher – please refer to 'Granta System Description' for full details.

Basic network requirements:

Twisted-pair Ethernet 100Mbit, RS232 port on PC

GBI: 50-570

3

Type	Order No.
<p><b>4891</b></p> <p><b>Granta Multi System Manager</b></p> <p>Granta Multi System Manager provides a centralised database for easy IT support, centralised services including monitoring and reporting, as well as management for alarms, users and visitors. Granta MSM connects as a central control workstation to each of the client systems simultaneously, which minimises workload across the whole system.</p> <p>Granta MSM can connect and manage up to 32 client Granta systems. It is very easy to upload each site's complete database to the fully partitioned central SQL database in Granta MSM. Each of the client systems operates completely independently of each other, which provides administrators with all the independence and regional security that was previously ensured by having their own local database.</p> <p>Transactions from all the client systems can be monitored in Granta MSM as a group or on individual on-screen monitors. It is also possible to monitor, acknowledge and clear alarms from all client systems in Granta MSM, with the same functionality as at the client system. Regardless of where these actions are performed, they are visible both in Granta MSM and in the individual client system. Similar functionality is also available for Card Image Monitor and Alarm Graphics on the MSM station.</p> <p>The user management functionality in Granta MSM provides full visibility and creates a common, centralised card population of up to 100,000 cardholders. Granta MSM can be used to administer users' access levels and validation for any of the client systems. The functionality in Granta MSM is extended beyond what it is at the client systems in that Granta MSM can display and administer a user's data for all client systems at the same time.</p> <p>Granta MSM includes reporting functionality that includes a suite of comprehensive global and local reports for all of the client systems.</p>	<b>GBI: 50-571</b>




Type	Order No.
<p><b>4881 Alarm graphics module</b></p> <p>The alarm graphics module provides graphical control and representation of alarm events. It's easy to design graphical site plans that are then used to identify and process system alarm events. In the case of an alarm, the software provide both an audible warning and a visual indication of where the alarm is occurring so that the operator can immediately take action. System control functions are also available, which make it possible to manually override doors, turn on security lights, and so on.</p>	<p>GBI: 50-521</p>
<p><b>4883 Image monitor module</b></p> <p>When a card is read at a specific access point, the image monitor module will display the stored image of its registered owner. This gives the system operator the opportunity to verify the identity of the person using the card directly or via a CCTV camera.</p>	<p>GBI: 50-515</p>
<p><b>4884 Multiple hardware system module</b></p> <p>The multiple hardware system module is required when multiple groups of controllers are used (at remote sites, for example).</p>	<p>GBI: 50-524</p>
<p><b>4885L Video badging module</b></p> <p>The video badging module makes it possible to produce integrated photo ID badges. Cardholder photos can either come directly from a connected digital camera or from a database of electronically stored images. The badge design software enables you to combine the cardholder photo with the company logo, as well as text and database fields. This data can then be added to ISO standard cards or adhesive labels via a dye sublimation printer.</p>	<p>GBI: 50-517</p>
<p><b>4886 X-Link module</b></p> <p>The X-Link module is an event-processing tool for integrating third-party systems. It can transfer events from the Granta system to other applications in real time via various communications media such as e-mail, SMS or paging, for example.</p>	<p>GBI: 50-523</p>
<p><b>4887 CCTV manager module</b></p> <p>The CCTV manager module provides CCTV system control directly from within Granta via a virtual keyboard. Further, as Granta monitors events within the access control system it can send commands via RS232 directly to the CCTV system without operator intervention, which is very useful for alarm events.</p>	<p>GBI: 50-518</p>
<p><b>4888 Visitor manager module</b></p> <p>The visitor manager module makes it possible to log visitors into the system in advance and then simply print their badges upon arrival. Access levels within the system can be restricted as required and validated to hourly intervals. A monitor screen shows who is due to arrive, who is on site, the name of each visitor's host and who has logged out. This module can also deliver a complete range of management reports.</p>	<p>GBI: 50-522</p>

## Granta Software Extensions


Type	Order No.
4889	GBI: 50-519
<p><b>Database partitioning module</b></p> <p>The database partitioning module controls the separation of data for use by different companies on the same system, which makes it ideal for multi-tenanted buildings. Partitions can be grouped together to provide higher levels of administrative control.</p>	





Type	Order No.										
<p><b>4101-3</b></p>  <p><b>Modular controller (MK3)</b></p> <p>The 4101-3 can control up to eight reading heads or readers, TCP/IP, RF module, memory expansions and comms module are all available "onboard" rather than as separate add-ons. The integrated Cotag technology enables the most cost-effective hands-free solution on the market, with a proximity reading range of up to 40 cm and a hands-free reading range of up to 100 cm.</p> <p>Granta provides a powerful, integrated input/output functionality called CLIC (Configurable Logical Input/output Control). CLIC enables intelligent monitoring and control of third-party systems and goes far beyond the simple alarm-handling features of many other systems.</p> <p>Granta hardware employs a robust RS485 communication protocol to ensure the integrity of data from the software to the controllers and from the controllers to the software. Alternatively, Granta systems can be built using a TCP/IP network, dial-up modems (including GSM) or via a combination of all three communication methods within the same system for complete flexibility.</p> <p>Note: The modular controller will be released during autumn 2011.</p> <table border="0"> <tr> <td>Current consumption</td> <td>1A</td> </tr> <tr> <td>Card capacity</td> <td>100,000</td> </tr> <tr> <td>Operating temperature</td> <td>0 to +40 °C</td> </tr> <tr> <td>Environment</td> <td>Indoor use only</td> </tr> <tr> <td>Approval</td> <td>CE</td> </tr> </table>	Current consumption	1A	Card capacity	100,000	Operating temperature	0 to +40 °C	Environment	Indoor use only	Approval	CE	<p><b>GBI: 50-560</b></p>
Current consumption	1A										
Card capacity	100,000										
Operating temperature	0 to +40 °C										
Environment	Indoor use only										
Approval	CE										
<p><b>4102-3</b></p> <p><b>Modular controller (MK3) - sub-assembly</b></p> <p>The 4102-3 provides all the same functionality as the 4101-3 (see above). The only difference is that it is delivered without the housing.</p> <p>Note: The modular controller will be released during autumn 2011.</p> <table border="0"> <tr> <td>Current consumption</td> <td>1 A</td> </tr> <tr> <td>Card capacity</td> <td>100,000</td> </tr> <tr> <td>Operating temperature</td> <td>0 to +40 °C</td> </tr> <tr> <td>Environment</td> <td>Indoor use only</td> </tr> <tr> <td>Approval</td> <td>CE</td> </tr> </table>	Current consumption	1 A	Card capacity	100,000	Operating temperature	0 to +40 °C	Environment	Indoor use only	Approval	CE	<p><b>GBI: 50-561</b></p>
Current consumption	1 A										
Card capacity	100,000										
Operating temperature	0 to +40 °C										
Environment	Indoor use only										
Approval	CE										
<p><b>4103-3</b></p> <p><b>Modular controller (MK3) - motherboard only</b></p> <p>The 4103-3 is used to upgrade existing controllers or sub-assemblies so that they can offer all of the functionality of the 4101-3 controller.</p> <p>Note: The modular controller will be released during autumn 2011.</p> <table border="0"> <tr> <td>Current consumption</td> <td>1 A</td> </tr> <tr> <td>Card capacity</td> <td>100,000</td> </tr> <tr> <td>Operating temperature</td> <td>0 to +40 °C</td> </tr> <tr> <td>Environment</td> <td>Indoor use only</td> </tr> <tr> <td>Approval</td> <td>CE</td> </tr> </table>	Current consumption	1 A	Card capacity	100,000	Operating temperature	0 to +40 °C	Environment	Indoor use only	Approval	CE	<p><b>GBI: 50-562</b></p>
Current consumption	1 A										
Card capacity	100,000										
Operating temperature	0 to +40 °C										
Environment	Indoor use only										
Approval	CE										

## Granta Reading heads

Type	Order No.																																
<b>HF100-Cotag</b>  	<b>GBI: 21-406</b>																																
<p><b>Hands-free reading head</b></p> <p>The HF100-Cotag is a hands-free Cotag reading head that provides a reading range of up to 100 cm. It is the ideal choice for doors with very high throughput, doors intended for disabled access, parking barriers and doors in warehouses.</p> <table border="0"> <tr> <td>System compatibility</td> <td>Granta</td> </tr> <tr> <td>Interface to controller</td> <td>RF</td> </tr> <tr> <td>Tamper switch</td> <td>No</td> </tr> <tr> <td>Card technology</td> <td>Cotag</td> </tr> <tr> <td>Card compatibility</td> <td>0911, 0928-0, 0958-101, 0981, 0968-0, 0270</td> </tr> <tr> <td>Card read distance</td> <td>Up to 102 cm with active cards/ tags. Up to 34 cm with passive cards/ tags.</td> </tr> <tr> <td>Indicators</td> <td>3 x LED (red/yellow/green) 1 x Buzzer</td> </tr> <tr> <td>Keypad</td> <td>No</td> </tr> <tr> <td>Operating temperature</td> <td>0 to +50 °C</td> </tr> <tr> <td>Environment</td> <td>Indoor or outdoor use</td> </tr> <tr> <td>IP rating</td> <td>IP32</td> </tr> <tr> <td>Housing</td> <td>UV-resistant ABS plastic</td> </tr> <tr> <td>Colour</td> <td>Light grey</td> </tr> <tr> <td>Dimensions (W x H x D)</td> <td>220 x 265 x 29.3 mm</td> </tr> <tr> <td>Weight</td> <td>0.4 kg</td> </tr> <tr> <td>Approval</td> <td>CE</td> </tr> </table>	System compatibility	Granta	Interface to controller	RF	Tamper switch	No	Card technology	Cotag	Card compatibility	0911, 0928-0, 0958-101, 0981, 0968-0, 0270	Card read distance	Up to 102 cm with active cards/ tags. Up to 34 cm with passive cards/ tags.	Indicators	3 x LED (red/yellow/green) 1 x Buzzer	Keypad	No	Operating temperature	0 to +50 °C	Environment	Indoor or outdoor use	IP rating	IP32	Housing	UV-resistant ABS plastic	Colour	Light grey	Dimensions (W x H x D)	220 x 265 x 29.3 mm	Weight	0.4 kg	Approval	CE	
System compatibility	Granta																																
Interface to controller	RF																																
Tamper switch	No																																
Card technology	Cotag																																
Card compatibility	0911, 0928-0, 0958-101, 0981, 0968-0, 0270																																
Card read distance	Up to 102 cm with active cards/ tags. Up to 34 cm with passive cards/ tags.																																
Indicators	3 x LED (red/yellow/green) 1 x Buzzer																																
Keypad	No																																
Operating temperature	0 to +50 °C																																
Environment	Indoor or outdoor use																																
IP rating	IP32																																
Housing	UV-resistant ABS plastic																																
Colour	Light grey																																
Dimensions (W x H x D)	220 x 265 x 29.3 mm																																
Weight	0.4 kg																																
Approval	CE																																
<b>PR100-Cotag</b>  	<b>GBI: 21-407</b>																																
<p><b>Proximity reading head</b></p> <p>The PR100-Cotag is a mullion proximity reading head that is narrow enough to mount on any door frame and has a reading range of up to 30 cm.</p> <table border="0"> <tr> <td>System compatibility</td> <td>Granta</td> </tr> <tr> <td>Interface to controller</td> <td>RF</td> </tr> <tr> <td>Tamper switch</td> <td>No</td> </tr> <tr> <td>Card technology</td> <td>Cotag</td> </tr> <tr> <td>Card compatibility</td> <td>0911, 0928-0, 0958-101, 0981, 0968-0</td> </tr> <tr> <td>Card read distance</td> <td>Up to 32 cm with active cards/ tags. Up to 11 cm with passive cards/ tags.</td> </tr> <tr> <td>Indicators</td> <td>3 x LED (red/yellow/green) 1 x Buzzer</td> </tr> <tr> <td>Keypad</td> <td>No</td> </tr> <tr> <td>Operating temperature</td> <td>-30 to +50 °C</td> </tr> <tr> <td>Environment</td> <td>Indoor or outdoor use</td> </tr> <tr> <td>IP rating</td> <td>IP55</td> </tr> <tr> <td>Housing</td> <td>ABS base with clip on ABS front cover</td> </tr> <tr> <td>Colour</td> <td>White</td> </tr> <tr> <td>Dimensions (W x H x D)</td> <td>40 x 140 x 18.5 mm</td> </tr> <tr> <td>Weight</td> <td>0.11 kg</td> </tr> <tr> <td>Approval</td> <td>CE</td> </tr> </table>	System compatibility	Granta	Interface to controller	RF	Tamper switch	No	Card technology	Cotag	Card compatibility	0911, 0928-0, 0958-101, 0981, 0968-0	Card read distance	Up to 32 cm with active cards/ tags. Up to 11 cm with passive cards/ tags.	Indicators	3 x LED (red/yellow/green) 1 x Buzzer	Keypad	No	Operating temperature	-30 to +50 °C	Environment	Indoor or outdoor use	IP rating	IP55	Housing	ABS base with clip on ABS front cover	Colour	White	Dimensions (W x H x D)	40 x 140 x 18.5 mm	Weight	0.11 kg	Approval	CE	
System compatibility	Granta																																
Interface to controller	RF																																
Tamper switch	No																																
Card technology	Cotag																																
Card compatibility	0911, 0928-0, 0958-101, 0981, 0968-0																																
Card read distance	Up to 32 cm with active cards/ tags. Up to 11 cm with passive cards/ tags.																																
Indicators	3 x LED (red/yellow/green) 1 x Buzzer																																
Keypad	No																																
Operating temperature	-30 to +50 °C																																
Environment	Indoor or outdoor use																																
IP rating	IP55																																
Housing	ABS base with clip on ABS front cover																																
Colour	White																																
Dimensions (W x H x D)	40 x 140 x 18.5 mm																																
Weight	0.11 kg																																
Approval	CE																																



Type

Order No.

0270

**Loop coupler**



The 0270 loop coupler is a simple wire loop that uses Cotag hands-free technology to provide a reading range of up to 200 cm when used together with Cotag "active" cards and tags. It is the ideal choice for healthcare facilities and asset management.

System compatibility	Granta
Interface to controller	RF
Tamper switch	No
Card technology	Cotag
Card compatibility	0911, 0928-0, 0970,
Card read distance	Up to 300 cm with active card, depending on loop construction.
Indicators	None
Keypad	No
Operating temperature	-40 to + 70 °C
Environment	Indoor or outdoor use
IP rating	IP56
Housing	UV-resistant ABS plastic
Colour	Light grey
Dimensions (W x H x D)	80 x 160 x 56 mm
Weight	0.5 kg
Approval	CE

GBI: 21-408

HD100-2

**Heavy-duty proximity reading head**





The HD100-2 is a heavy-duty proximity reading head that is ideal for locations that are vulnerable to physical attack. It is impact and fire resistant and has a reading range of up to 30 cm.

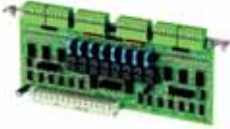
System compatibility	Granta
Interface to controller	RF
Tamper switch	No
Card technology	Cotag
Card compatibility	0911, 0928-0, 0958-101, 0981, 0968-0
Card read distance	Up to 32 cm with active card. Up to 11 cm with passive card.
Indicators	3 x LED (red/yellow/green) 1 x Buzzer
Keypad	No
Operating temperature	-30 to +50 °C
Environment	Indoor or outdoor use
IP rating	IP55
Housing	ABS base with clip on ABS front cover
Colour	Black and stainless steel
Dimensions (W x H x D)	128 x 100 x 18 mm
Weight	0.11 kg
Approval	CE

GBI: 50-510




## Granta Reading heads

Type	Order No.																																
<b>PM100-Cotag</b>  	<b>GBI: 50-511</b>																																
<p><b>Panel-mounted proximity reading head</b></p> <p>The PM100-Cotag is a panel-mounted proximity reading head that fits into third-party enclosures such as door-entry phones, barriers and turnstiles. It has a reading range of up to 28 cm.</p> <table border="0"> <tr> <td>System compatibility</td> <td>Granta</td> </tr> <tr> <td>Interface to controller</td> <td>RF</td> </tr> <tr> <td>Tamper switch</td> <td>No</td> </tr> <tr> <td>Card technology</td> <td>Cotag</td> </tr> <tr> <td>Card compatibility</td> <td>0911, 0928-0, 0958-101, 0981, 0968-0</td> </tr> <tr> <td>Card read distance</td> <td>Up to 23 cm with active card. Up to 8 cm with passive card.</td> </tr> <tr> <td>Indicators</td> <td>3 x LED (red/yellow/green) 1 x Buzzer</td> </tr> <tr> <td>Keypad</td> <td>No</td> </tr> <tr> <td>Operating temperature</td> <td>-30 to +50 °C</td> </tr> <tr> <td>Environment</td> <td>Indoor or outdoor use</td> </tr> <tr> <td>IP rating</td> <td>IP55</td> </tr> <tr> <td>Housing</td> <td>ABS base with clip on ABS front cover</td> </tr> <tr> <td>Colour</td> <td>Black</td> </tr> <tr> <td>Dimensions (W x H x D)</td> <td>68 x 73 x 13.5 mm</td> </tr> <tr> <td>Weight</td> <td>0.11 kg</td> </tr> <tr> <td>Approval</td> <td>CE</td> </tr> </table>	System compatibility	Granta	Interface to controller	RF	Tamper switch	No	Card technology	Cotag	Card compatibility	0911, 0928-0, 0958-101, 0981, 0968-0	Card read distance	Up to 23 cm with active card. Up to 8 cm with passive card.	Indicators	3 x LED (red/yellow/green) 1 x Buzzer	Keypad	No	Operating temperature	-30 to +50 °C	Environment	Indoor or outdoor use	IP rating	IP55	Housing	ABS base with clip on ABS front cover	Colour	Black	Dimensions (W x H x D)	68 x 73 x 13.5 mm	Weight	0.11 kg	Approval	CE	
System compatibility	Granta																																
Interface to controller	RF																																
Tamper switch	No																																
Card technology	Cotag																																
Card compatibility	0911, 0928-0, 0958-101, 0981, 0968-0																																
Card read distance	Up to 23 cm with active card. Up to 8 cm with passive card.																																
Indicators	3 x LED (red/yellow/green) 1 x Buzzer																																
Keypad	No																																
Operating temperature	-30 to +50 °C																																
Environment	Indoor or outdoor use																																
IP rating	IP55																																
Housing	ABS base with clip on ABS front cover																																
Colour	Black																																
Dimensions (W x H x D)	68 x 73 x 13.5 mm																																
Weight	0.11 kg																																
Approval	CE																																
<b>SP100-Cotag</b>  	<b>GBI: 50-512</b>																																
<p><b>Switch-plate proximity reading head</b></p> <p>The SP100-Cotag is a switch-plate proximity reading head that is designed for mounting in a single-gang flush-mounted electrical back-box. It has a reading range of up to 30 cm.</p> <table border="0"> <tr> <td>System compatibility</td> <td>Granta</td> </tr> <tr> <td>Interface to controller</td> <td>RF</td> </tr> <tr> <td>Tamper switch</td> <td>No</td> </tr> <tr> <td>Card technology</td> <td>Cotag</td> </tr> <tr> <td>Card compatibility</td> <td>0911, 0928-0, 0958-101, 0981, 0968-0</td> </tr> <tr> <td>Card read distance</td> <td>Up to 29 cm with active card. Up to 9 cm with passive card.</td> </tr> <tr> <td>Indicators</td> <td>3 x LED (red/yellow/green) 1 x Buzzer</td> </tr> <tr> <td>Keypad</td> <td>No</td> </tr> <tr> <td>Operating temperature</td> <td>-30 to +50 °C</td> </tr> <tr> <td>Environment</td> <td>Indoor or outdoor use</td> </tr> <tr> <td>IP rating</td> <td>IP55</td> </tr> <tr> <td>Housing</td> <td>ABS base with clip on ABS front cover</td> </tr> <tr> <td>Colour</td> <td>White</td> </tr> <tr> <td>Dimensions (W x H x D)</td> <td>86 x 86 x 14 mm</td> </tr> <tr> <td>Weight</td> <td>0.11 kg</td> </tr> <tr> <td>Approval</td> <td>CE</td> </tr> </table>	System compatibility	Granta	Interface to controller	RF	Tamper switch	No	Card technology	Cotag	Card compatibility	0911, 0928-0, 0958-101, 0981, 0968-0	Card read distance	Up to 29 cm with active card. Up to 9 cm with passive card.	Indicators	3 x LED (red/yellow/green) 1 x Buzzer	Keypad	No	Operating temperature	-30 to +50 °C	Environment	Indoor or outdoor use	IP rating	IP55	Housing	ABS base with clip on ABS front cover	Colour	White	Dimensions (W x H x D)	86 x 86 x 14 mm	Weight	0.11 kg	Approval	CE	
System compatibility	Granta																																
Interface to controller	RF																																
Tamper switch	No																																
Card technology	Cotag																																
Card compatibility	0911, 0928-0, 0958-101, 0981, 0968-0																																
Card read distance	Up to 29 cm with active card. Up to 9 cm with passive card.																																
Indicators	3 x LED (red/yellow/green) 1 x Buzzer																																
Keypad	No																																
Operating temperature	-30 to +50 °C																																
Environment	Indoor or outdoor use																																
IP rating	IP55																																
Housing	ABS base with clip on ABS front cover																																
Colour	White																																
Dimensions (W x H x D)	86 x 86 x 14 mm																																
Weight	0.11 kg																																
Approval	CE																																



Type	Order No.								
<p><b>4253</b>                      <b>Input/output module</b></p> <p>The 4253 input/output module provides 16 inputs (four state monitored) and 8 outputs (single change over pole relays).</p>  <table border="0"> <tr> <td>Inputs</td> <td>16 supervised Inputs - 8 NC and 8 selectable NO or NC</td> </tr> <tr> <td>Outputs</td> <td>8 relay outputs - Single pole - Jumper selectable NO or NC</td> </tr> <tr> <td>Operating temperature</td> <td>-10 to +40 °C</td> </tr> <tr> <td>Approval</td> <td>CE, UL294, C-Tick</td> </tr> </table>	Inputs	16 supervised Inputs - 8 NC and 8 selectable NO or NC	Outputs	8 relay outputs - Single pole - Jumper selectable NO or NC	Operating temperature	-10 to +40 °C	Approval	CE, UL294, C-Tick	GBI: 50-127
Inputs	16 supervised Inputs - 8 NC and 8 selectable NO or NC								
Outputs	8 relay outputs - Single pole - Jumper selectable NO or NC								
Operating temperature	-10 to +40 °C								
Approval	CE, UL294, C-Tick								
<p><b>4322</b>                      <b>Cotag reader MK2</b></p> <p>The 4322 Cotag reader MK2 is used inside a Granta modular controller for the connection of up to 2 reading heads.</p> <table border="0"> <tr> <td>Operating temperature</td> <td>-10 to +40 °C</td> </tr> <tr> <td>Approval</td> <td>CE, UL294, C-Tick</td> </tr> </table>	Operating temperature	-10 to +40 °C	Approval	CE, UL294, C-Tick	GBI: 50-130				
Operating temperature	-10 to +40 °C								
Approval	CE, UL294, C-Tick								
<p><b>4422</b>                      <b>Swipe reader MK2</b></p> <p>The 4422 swipe reader MK2 is used inside a Granta modular controller for the connection of up to two third-party readers (Wiegand or Clock&amp;Data).</p> <table border="0"> <tr> <td>Operating temperature</td> <td>-10 to +40 °C</td> </tr> <tr> <td>Approval</td> <td>CE, UL294, C-Tick</td> </tr> </table>	Operating temperature	-10 to +40 °C	Approval	CE, UL294, C-Tick	GBI: 50-136				
Operating temperature	-10 to +40 °C								
Approval	CE, UL294, C-Tick								
<p><b>4953</b>                      <b>I/O status display</b></p> <p>Input/Output status display. Fits to 4253 as a service aid to display status on inputs and outputs on LED's.</p>	GBI: 50-155								

## Granta Cards and Tags

Type	Order No.
<p><b>0928-0</b></p>  <p><b>Active card</b></p> <p>The 0928-0 is a factory-encoded active card that includes a lithium battery which enables it to provide hands-free functionality when it is used together with Cotag hands-free readers. When it is used with a Cotag hands-free reader, the reading range is up to 1 metre. With Cotag proximity readers, the reading range is up to 30 cm.</p> <p>0928-0 tags are particularly useful in environments where some card-holders are disabled or often have their hands full (i.e. a hospital or warehouse).</p> <p>One of the major advantages of Cotag technology is that active and passive cards can be mixed in the same system to provide ultimate convenience and cost-efficiency.</p> <p>Note: The card number is printed on front of the card.</p> <p>Quantity in order: 1</p> <p>Dimensions (W x H x D)                      54 x 86 x 3 mm</p>	<b>GBI: 51-501</b>
<p><b>0968-0</b></p>  <p><b>Ten-pack of passive Cotag clamshell cards (unprog.)</b></p> <p>The 0968-0 is a factory-encoded passive card that does not include a battery. It can be used in combination with any Cotag reader. When it is used with a Cotag hands-free reader, the reading range is approximately 34 cm. With Cotag proximity readers, the reading range is up to 11 cm.</p> <p>One of the major advantages of Cotag technology is that active and passive cards can be mixed in the same system to provide ultimate convenience and cost-efficiency.</p> <p>Note: The card number is printed on the back of the card.</p> <p>Quantity in order: 10</p> <p>Dimensions (W x H x D)                      54 x 86 x 3 mm</p>	<b>GBI: 51-108</b>
<p><b>0981</b></p>  <p><b>Ten-pack of passive Cotag key-ring tags (unprog.)</b></p> <p>The 0981 is a factory-encoded passive tag that does not include a battery. It can be used in combination with any Cotag reader. When it is used with a Cotag hands-free reader, the reading range is approximately 29 cm. With Cotag proximity readers, the reading range is up to 10 cm.</p> <p>One of the major advantages of Cotag technology is that active and passive cards can be mixed in the same system to provide ultimate convenience and cost-efficiency.</p> <p>Note: The card number is printed on the back of the tag.</p> <p>Quantity in order: 10</p> <p>Dimensions (W x H x D)                      40 x 49 x 4.5 mm</p>	<b>GBI: 51-404</b>

# Granta Cards and Tags



Type

Order No.

0958-101

**Ten-pack of ISO thin cards (unprog.)**

The 0958-101 is a factory-encoded ISO laminated passive card that does not include a battery. It is ideal for photo ID applications as it can be custom-printed. When it is used with a Cotag hands-free reader, the reading range is approximately 33 cm. With Cotag proximity readers, the reading range with the 0958-101 varies between 3 and 10 cm.



Quantity in order: 10

Dimensions (W x H x D)                      54 x 86 x 0.76 mm

GBI: 51-303

0940

**Wrist tag**

Active wrist/ankle tag used for wanderer control and access control applications. FDA approved for continuous skin contact.





Note: The card number is printed on the back of the tag.

Quantity in order: 50

Dimensions (W x H x D)                      30 x 40 x 9 mm

GBI: 51-900

## Granta Accessories

Type	Order No.
<p><b>4910</b></p>  <p><b>Power supply with battery backup</b></p> <p>The 4910 power supply can power up to five Granta controllers (not including electric door releases or third-party readers). It has a 12Vdc 5Amp rating and provides battery backup in case of a power outage.</p> <p>Dimensions 114 x 346 x CXC mm</p>	<p><b>GBI: 50-151</b></p>
<p><b>4911</b></p>  <p><b>Power supply without battery backup</b></p> <p>The 4911 power supply can power up to five Granta controllers (not including electric door releases or third-party readers). It has a 12Vdc 5Amp rating.</p> <p>Dimensions 114 x 346 x CXC mm</p>	<p><b>GBI: 50-152</b></p>
<p><b>633-2</b></p> <p><b>Cotag programmer</b></p> <p>The 633-2 Cotag programmer enables you to meet your customers' individual requirements for programming active and passive Cotag cards and tags. It makes it possible to program small batches or individual cards and can be used to create configuration cards to set up any Cotag readers. The programmer can also be configured for an end user, so that the customer himself has local control over card issuing.</p> <p>Dimensions (W x H x D)</p>	<p><b>GBI: 52-700</b></p>





SIEMENS



# The smart choice for cost-efficient security management is Granta!

Answers for infrastructure.

Granta is a modular access control and security management system that supports sites that range in size from as few as four doors to up to 4,096 doors and 100,000 cardholders. It offers multi-system management functionality and is easy to integrate with CCTV, intrusion and other systems. Regardless of system size, Granta provides round-the-clock protection, enabling you to control the movement of personnel and vehicles, manage visitor access,

control and monitor CCTV systems, protect staff and assets, and even remotely administer and secure sister sites around the world. Granta is designed for use by security staff, not IT specialists. Training staff to use the full range of features is a quick and easy process. Granta is flexible, powerful and secure, and the unique reading head concept provides ultimate cost-efficiency, particularly when used with Cotag hands-free cards and tags.

[www.siemens.com/securityproducts](http://www.siemens.com/securityproducts)

Achieve the perfect  
balance between  
security and accessibility



# SiPass integrated



## Tailor-made security systems for demanding organizations of any size

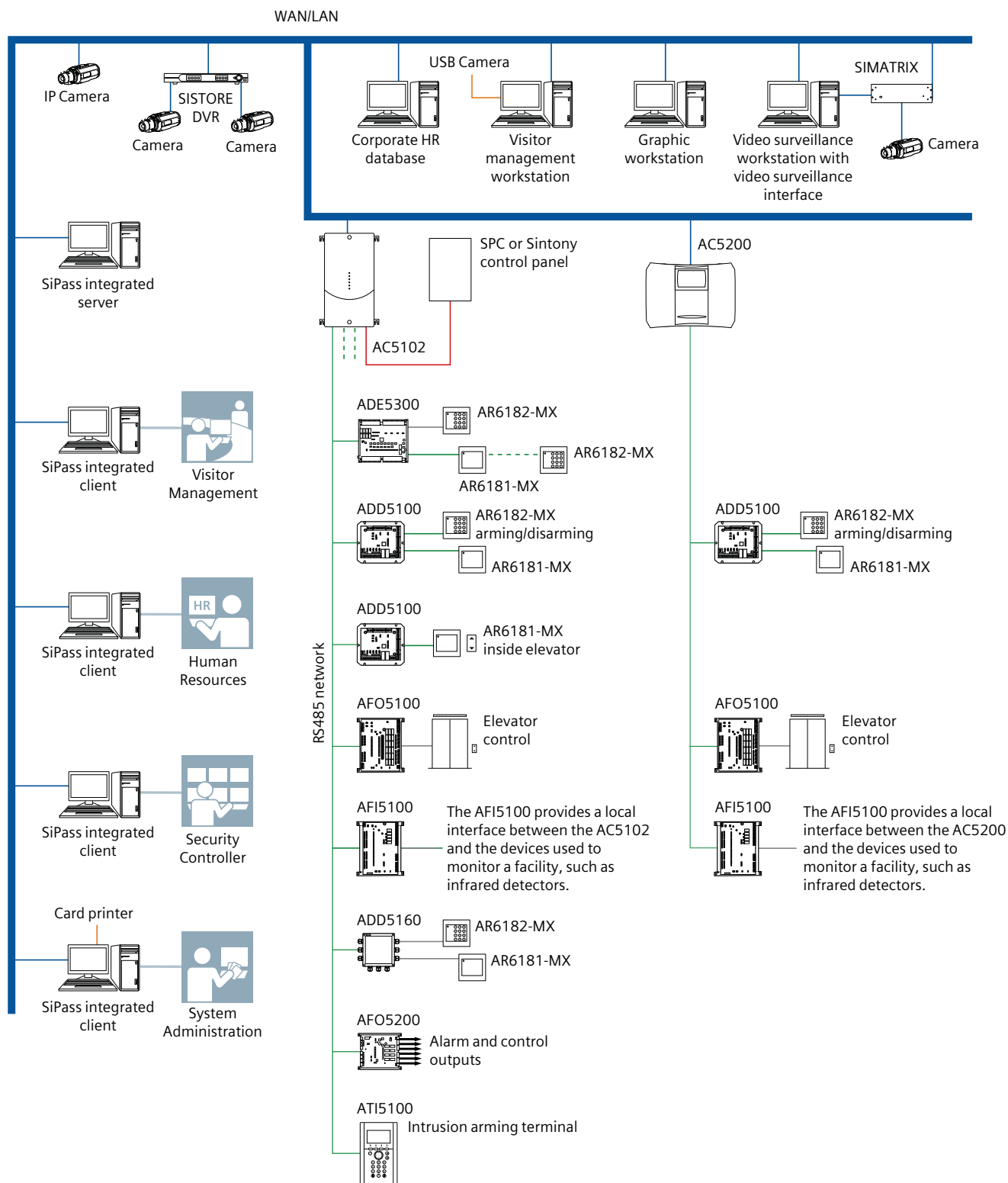
SiPass® integrated is a powerful and almost infinitely flexible access control system that provides a very high level of security without compromising convenience and ease of use for system users. It is designed to meet access control needs that range in complexity from medium to very high.

SiPass integrated can be used to manage access to anything from a single low-rise office or residential building with just a few doors to massive high-rise complexes with tens of thousands of doors, gates, barriers and elevators at multiple sites around the globe. It also fully supports the integration of video surveillance, intrusion detection and fire alarm systems – either Siemens' own or third-party – thereby creating a total security solution. For applications that require full availability, it is possible to load the SiPass integrated software onto a Marathon everRun FT server. The result is an access control system that is completely immune to server failures.

### System highlights

- Virtually unlimited number of cardholders and controllers to suit any facility size
- Supports a broad range of readers – various technologies/manufacturers
- Intuitively designed software that is easy to use and administer
- Modular system architecture enables tailoring to suit the needs of any facility
- Operates in an existing IT environment using TCP/IP over WAN/LAN
- Advanced card management, multimedia alarm handling, video surveillance user interface and complete event logging in a single system
- Support for offline components (doors)
- High-level integration with SPC and Sintony intrusion detection systems.

# SiPass integrated Diagrams





Type

Order No.

ASL5000..

## SiPass integrated software licenses

The SiPass integrated software is the heart of any SiPass integrated system. The total number of controllers that can be connected is virtually unlimited. The Windows-certified software has a powerful client/server architecture, and it is easy to install and administer via its graphical user interface.

Features such as advanced audit-trail logging, advanced alarm management, anti-passback functionality (including global and workgroup anti-passback), door interlocking, escort control mode, video surveillance and DVR interfaces – as well as Siemens' exclusive custom Wiegand functionality and advanced device firmware download – are all standard in SiPass integrated. A wide variety of other advanced features are also available as add-on options. SiPass integrated also offers the possibility to set up customized interfaces to other applications in order to ensure smooth communication at all times. The software also supports CITRIX and Windows Terminal Services for remote operation, where required.

Standard features of SiPass integrated:

- Time scheduling
- Dynamic graphical status screen
- Instructional alarm response windows
- Full system archiving and restoration
- Advanced reporting tool
- Comprehensive audit-trail logging
- Advanced alarm management
- Anti-passback and roll call
- Workgroup anti-passback
- Partitioning of operator privileges
- Escort control
- Door interlocking
- Real-time event and message logging
- Logon using full password encryption or automatic authentication windows
- Automatic and event-triggered reporting
- Three wrong PIN modes
- Manual system override
- Advanced device firmware download
- Custom Wiegand
- Interoperability with SIMATRIX video surveillance
- Interoperability with SISTORE DVRs
- Interoperability with Sintony and SPC intrusion detection systems
- Support for Siemens RS485 and Clock&Data readers (CerPass protocol)
- Support for most popular reader technologies
- Networking options for global reach
- Upgrade paths for investment protection
- 21CFR Part 11 compliance

Note: The ASL5000 is a software license only. The SiPass integrated software DVD needs to be ordered separately – see ASB5000-xx.


To order the SiPass integrated software license or any of the SiPass integrated core software, you must first complete a software license order form. Please contact your SiPass integrated supplier for further information.

ASL5000..

## SiPass integrated Core Software

Type	Order No.
<p><b>ASL5000-ST</b>      <b>SiPass integrated software – Starter edition license</b></p> <p>See ASL5000.. for technical overview and note the additional / other specifications:</p> <p>The Starter edition license includes:</p> <ul style="list-style-type: none"> <li>• 16 doors</li> <li>• 1,000 cards</li> <li>• One SiPass integrated server</li> <li>• One SiPass integrated workstation</li> </ul> <p><b>Note that no options are available with the Starter edition license.</b></p> <p>Note that ASL5000-ST is a software license only, the SiPass integrated software DVD has to be ordered separately in the language you require. Refer to the list on the following page.</p> <p>To order the ASL5000-ST or any of the SiPass integrated core software, you must first complete a software license order form. Please contact your SiPass integrated supplier for further information.</p>	S54511-P2-A1
<p><b>ASL5000-US</b>      <b>Upgrade license - SiPass integrated Starter to SiPass integrated Standard</b></p> <p>See ASL5000.. for technical overview and note the additional / other specifications:</p> <p>This license allows the upgrade from SiPass integrated Starter edition to SiPass integrated Standard edition.</p> <p>To order the ASL5000-US or any of the SiPass integrated core software, you must first complete a software license order form. Please contact your SiPass integrated supplier for further information.</p>	6FL7820-8AB00
<p><b>ASL5000-SE</b>      <b>SiPass integrated software – Standard edition license</b></p> <p>See ASL5000.. for technical overview and note the additional / other specifications:</p> <p>Standard edition license includes:</p> <ul style="list-style-type: none"> <li>• 24 doors</li> <li>• 1,000 cards</li> <li>• One SiPass integrated server</li> <li>• One SiPass integrated workstation</li> </ul> <p>Note that ASL5000-SE is a software license only, the SiPass integrated software DVD has to be ordered separately in the language you require. Refer to the list on the following page.</p> <p>To order the ASL5000-SE or any of the SiPass integrated core software, you must first complete a software license order form. Please contact your SiPass integrated supplier for further information.</p>	6FL7820-8AA10



Type	Order No.
<p><b>ASL5000-UO</b></p> <p><b>Upgrade license - SiPass integrated Standard to SiPass integrated Optima</b></p> <p>See ASL5000.. for technical overview and note the additional / other specifications:</p> <p>This license allows the upgrade from SiPass integrated Standard edition to SiPass integrated Optima edition.</p> <p>To order the ASL5000-UO or any of the SiPass integrated core software, you must first complete a software license order form. Please contact your SiPass integrated supplier for further information.</p>	<p><b>6FL7820-8AB10</b></p>
<p><b>ASL5000-OA</b></p> <p><b>SiPass integrated software – Optima edition license</b></p> <p>See ASL5000.. for technical overview and note the additional / other specifications:</p> <p>Optima edition license includes:</p> <ul style="list-style-type: none"> <li>• 64 doors</li> <li>• 10,000 cards</li> <li>• One SiPass integrated server</li> <li>• Three SiPass integrated workstations</li> </ul> <p>The ASL5000-OA is a software license only, the SiPass integrated software DVD has to be ordered separately in the language you require. Refer to the list below.</p> <p>To order the ASL5000-OA or any of the SiPass integrated core software, you must first complete a software license order form. Please contact your SiPass integrated supplier for further information.</p>	<p><b>6FL7820-8AA20</b></p>
<p><b>ASB5000..</b></p> <p><b>SiPass integrated software DVD</b></p> <p>This DVD contains:</p> <ul style="list-style-type: none"> <li>• SiPass integrated software and documentation</li> <li>• SiPass integrated firmware and installation tool</li> <li>• SiPass integrated hardware documentation</li> <li>• Microsoft SQL Server 2005 Express Edition</li> </ul> 	<p><b>ASB5000..</b></p>
<p><b>ASB5000-EN</b></p> <p><b>SiPass integrated software DVD (English)</b></p>	<p><b>6FL7820-8FD10</b></p>
<p><b>ASB5000-DE</b></p> <p><b>SiPass integrated software DVD (German)</b></p>	<p><b>6FL7820-8FD11</b></p>
<p><b>ASB5000-FR</b></p> <p><b>SiPass integrated software DVD (French)</b></p>	<p><b>6FL7820-8FD12</b></p>

## SiPass integrated Core Software

Type		Order No.
ASB5000-ES	SiPass integrated software DVD (Spanish)	6FL7820-8FD14
ASB5000-IT	SiPass integrated software DVD (Italian)	6FL7820-8FD17
ASB5000-ZH-CN	SiPass integrated software DVD (Chinese)	S54511-P1-A105
ASB5000-RU	SiPass integrated software DVD (Russian)	S54511-P1-A102
ASB5000-PL	SiPass integrated software DVD (Polish)	6FL7820-8FD15
ASB5000-CS	SiPass integrated software DVD (Czech)	S54511-P1-A101
ASB5000-NL	SiPass integrated software DVD (Dutch)	6FL7820-8FD13
ASB5000-DA	SiPass integrated software DVD (Danish)	6FL7820-8FD16
ASB5000-NO	SiPass integrated software DVD (Norwegian)	S54511-P1-A104
ASB5000-HE	SiPass integrated software DVD (Hebrew)	S54511-P1-A103



## SiPass integrated Software Extensions



4

Type		Order No.
ASE5100-BA	<p><b>Database extension license for 1,000 cards</b></p> <p>The ASE5100-BA is a 1,000 card database extension from the initial 1,000 cards that are included in the standard license.</p> <p>To order the SiPass integrated software extensions, you must first complete a software license order form. Please contact your SiPass integrated supplier for further information.</p>	6FL7820-8AD10
ASE5100-OC	<p><b>License for 8 offline components (doors)</b></p> <p>ASE5100-OC makes it possible to add offline components (doors) to a SiPass integrated system. Please note that the SiPass integrated MP2.5 software is required to support this software extension.</p> <p>To order the SiPass integrated software extensions, you must first complete a software license order form. Please contact your SiPass integrated supplier for further information.</p>	P54511-P12-A1
ASE5100-DO	<p><b>Database extension license for 8 doors</b></p> <p>The ASE5100-DO is an 8-door database extension from the initial 24 doors included in the standard license.</p> <p>To order the SiPass integrated software extensions, you must first complete a software license order form. Please contact your SiPass integrated supplier for further information.</p>	6FL7820-8AD20
ASE5100-WS	<p><b>Additional workstation license</b></p> <p>The ASE5100-WS is a single workstation extension from the initial workstation included in the standard license. For more than five workstations, Microsoft SQL Server 2005 standard edition software is required and needs to be purchased separately.</p> <p>To order the SiPass integrated software extensions, you must first complete a software license order form. Please contact your SiPass integrated supplier for further information.</p>	6FL7820-8AE00

## SiPass integrated Software Extensions

Type	Order No.
<p><b>ASE5300-AI</b>                      <b>APOGEE interface license</b></p> <p>The APOGEE interface allows you to monitor alarms raised in the SiPass integrated system directly from your APOGEE Insight Workstation, and also acknowledge these alarms from that same workstation without switching systems. This same concept also extends to the monitoring of point states. As a point state in the SiPass integrated system changes, it is communicated to the APOGEE system and can be viewed by the APOGEE operator. This leads to reduced training costs and provides an increase in productivity through assimilated learning of a single environment. It also reduces the chance of error, as the operator only needs to concentrate on one interface to effectively manage two complex systems. When a cardholder badges an access card at a reader configured for access control, the same action can also be linked to the APOGEE system. This allows a cardholder to automatically activate a "Notification Zone". A notification zone allows building comfort system components to be turned on that relate directly to the cardholder. For example, lighting all the areas that lead to the cardholder's workspace and turning on the air conditioning in the cardholder's section of the office. Combine this with the powerful OPC A&amp;E client option available in SiPass integrated and OPC Server in the APOGEE system and you can now achieve bi-directional flow of data. This allows both systems to communicate with each other and operators of either system to monitor alarms regardless of the workstation they are using.</p> <p>To order the SiPass integrated software extensions, you must first complete a software license order form. Please contact your SiPass integrated supplier for further information.</p>	<p><b>P24246-P2800-B1</b></p>
<p><b>ASE5300-AP</b>                      <b>Basic HR application programming interface (API) license</b></p> <p>The Basic HR API enables SiPass integrated to communicate with third-party business applications and exchange common information, which significantly reduces the need to enter identical data into multiple systems.</p> <p>Note: To facilitate seamless communication between the Basic HR API and SiPass integrated, a small amount of software development is required for the third-party application. With the aid of the SiPass integrated HR API Development Guide, this task is relatively simple for a software engineer.</p> <p>To order the SiPass integrated software extensions, you must first complete a software license order form. Please contact your SiPass integrated supplier for further information.</p>	<p><b>6FL7820-8AE04</b></p>



Type	Order No.
<p><b>ASE5300-CB</b>                      <b>CCTV third-party interface license</b></p> <p>SiPass integrated video surveillance offers an interface to a number of video surveillance systems. The settings and configurations for cameras and monitors are directly made from the SiPass integrated system. The image sequences can be displayed from the SiPass integrated graphical user interface (GUI) or a standard CCTV monitor. Using the event control function, camera sequences can be programmed, which are then started automatically with a specific system event. This optional module allows you to upgrade your SiPass integrated client to a video surveillance workstation.</p> <p>Supported matrix switchers:</p> <ul style="list-style-type: none"> <li>• Pelco 9760</li> <li>• Pelco 9740</li> <li>• Pelco CM6700</li> <li>• Pelco CM6800</li> </ul> <p>To order the SiPass integrated software extensions, you must first complete a software license order form. Please contact your SiPass integrated supplier for further information.</p>	<p><b>6FL7820-8AE26</b></p>
<p><b>ASE5300-CW</b>                      <b>CCTV capability on a SiPass integrated workstation license</b></p> <p>The ASE5300-CW provides the ability to use the SiPass integrated workstation as a CCTV monitoring station. In combination with a video capture card, it is possible to view live CCTV images, control camera movement, and switch cameras from the convenience of the SiPass integrated workstation.</p> <p>To order the SiPass integrated software extensions, you must first complete a software license order form. Please contact your SiPass integrated supplier for further information.</p>	<p><b>6FL7820-8AE01</b></p>
<p><b>ASE5300-DS</b>                      <b>License for Data synchronizer tool</b></p> <p>The Data Synchronizer is a licensable tool for SiPass integrated that allows the user to share cardholder data with a third-party application. This can also be used in conjunction with the Import/Export tool that is freely available in SiPass integrated.</p> <p>To order the SiPass integrated software extensions, you must first complete a software license order form. Please contact your SiPass integrated supplier for further information.</p>	<p><b>6FL7820-8AE14</b></p>
<p><b>ASE5300-DV</b>                      <b>Digital video recorder (DVR) third-party interface license</b></p> <p>The ASE5300-DV software allows the user to control and view live or recorded images from multiple digital video recording (DVR) units connected to the same network as SiPass integrated. It is possible to completely manage the recording and playback features of other manufacturers' DVR systems with this software. Combined with the event and alarm handling functionality, it is possible to trigger immediate recording from DVR cameras in response to alarms or any other system event.</p> <p>To order the SiPass integrated software extensions, you must first complete a software license order form. Please contact your SiPass integrated supplier for further information.</p>	<p><b>6FL7820-8AE21</b></p>

## SiPass integrated Software Extensions

Type	Order No.
<p><b>ASE5300-GP</b>      <b>Graphics license</b></p> <p>The ASE5300-GP software provides security operators with a method of visually monitoring the status of a room, a building or an entire facility and the ability to perform routine tasks with a single click of the mouse button.</p> <p>To order the SiPass integrated software extensions, you must first complete a software license order form. Please contact your SiPass integrated supplier for further information.</p>	6FL7820-8AE17
<p><b>ASE5300-GT</b>      <b>Guard Tour license</b></p> <p>Protecting your facility and those that occupy it is critical. Electrical equipment provides superior surveillance, but if unseen by intruders it is not a good deterrent. Guards provide a highly visual security component, and if used correctly provide an excellent intrusion deterrent. SiPass integrated Guard Tour conveniently integrates your access control and security network with a state-of-the-art electronic patrol verification system.</p> <p>Guard Tour uses the same infrastructure as the SiPass integrated system, be it card readers, biometric readers, or any other access or input device. Therefore, there is no need to install additional equipment to monitor guard patrols. In addition, a guard can be tracked as he/she patrols your site. The same device used to indicate his or her position in a tour is also used to unlock doors and turn on alarm systems. This enables guards to generate real-time duress alarms, without arousing suspicion. Guard Tour's advanced functionality allows you to customise tours, assign guards to specific or random tours, impose time constraints, and generate alarms when tour conditions have been breached.</p> <p>To order the SiPass integrated software extensions, you must first complete a software license order form. Please contact your SiPass integrated supplier for further information.</p>	6FL7820-8AE25
<p><b>ASE5300-HA</b>      <b>Extended HR application programming interface (API) license</b></p> <p>The Extended HR API is an additional interface that builds upon the Basic HR API (ASE5300-AP). The Extended HR API makes it possible to perform advanced functions from a third-party application such as providing a cardholder with access privileges or assigning a visitor with a temporary access profile.</p> <p>Note: To facilitate seamless communication between the Extended HR API and SiPass integrated, a small amount of software development is required for the third-party application. With the aid of the SiPass integrated Extended HR API Development Guide, this task is relatively simple for a software engineer.</p> <p>To order the SiPass integrated software extensions, you must first complete a software license order form. Please contact your SiPass integrated supplier for further information.</p>	P24246-P2805-A1



Type	Order No.
<p><b>ASE5300-HL</b></p> <p><b>High-level elevator management interface license</b></p> <p>The generic high-level elevator interface (HLI) allows any facility to create a link between their SiPass integrated system and their elevator management system (EMS) for the purpose of controlling access to floors. Once you have configured your system, the HLI allows you to manage which cardholders are provided with access to which floors and the times of the day they are permitted to have this access. To ensure that the HLI is compatible with any commercially available EMS, a generic elevator protocol is available. This protocol provides all the common commands used by elevator management systems to control access.</p> <p>Note: Each site must create its own protocol translator to interface SiPass integrated with their local EMS.</p> <p>To order the SiPass integrated software extensions, you must first complete a software license order form. Please contact your SiPass integrated supplier for further information.</p>	6FL7820-8AE07
<p><b>ASE5300-ID</b></p> <p><b>Photo ID and image verification license</b></p> <p>The ASE5300-ID software enables the system to quickly and easily capture cardholder photographs and print a personalised access card that includes the photo for each cardholder. This ability to combine cardholder photographs with their access and personal information strengthens any security system. Within minutes it is possible to construct a custom-designed card template, complete with company logo, photograph and signature, plus eye-catching graphics.</p> <p>This module also enables live-image verification for enhanced security. In snapshot mode, an image is captured from a video surveillance camera for comparison with a cardholder photo. In host-verification mode, access to the door is controlled by the SiPass integrated operator.</p> <p>To order the SiPass integrated software extensions, you must first complete a software license order form. Please contact your SiPass integrated supplier for further information.</p>	6FL7820-8AE02
<p><b>ASE5300-IN</b></p> <p><b>SiPass integrated intrusion option license</b></p> <p>The intrusion module in SiPass integrated provides native intrusion detection functionality. When it is installed, motion detectors can be connected directly to SiPass integrated and the system can be used both as an access control system and an intrusion detection system. The same card readers are then used both for access control purposes and to turn the intrusion detection system on and off. Alternatively, in cases where a certified intrusion detection system is required, the intrusion module can be used to integrate a dedicated SPC or Sintony 400 series intrusion control panel into a SiPass integrated system. It is also possible for existing Sintony 400 customers to use the SiPass integrated intrusion module to add a fully featured access control application to their suite of building management tools.</p> <p>To order the SiPass integrated software extensions, you must first complete a software license order form. Please contact your SiPass integrated supplier for further information.</p>	P24246-P2801-A1

## SiPass integrated Software Extensions

Type	Order No.
<p><b>ASE5300-LE</b></p> <p><b>Low-level elevator management license</b></p> <p>Elevator systems pose a unique challenge to a secure facility. The access control system must simultaneously provide a integrated interface to both the elevator management system (EMS) and the security operator for effective access control to floors.</p> <p>With the SiPass integrated low-level interface, the SiPass integrated advanced central controller operates as the elevator controller. Output point modules operate as the hardware interface, handling access at up to 16 floors per unit, and providing fire override (FOR) notification.</p> <p>Configuring access control for an elevator system is a completely transparent process. SiPass integrated simply extends the same concepts governing door access to floors, using a consistent and intuitive graphical user interface.</p> <p>To order the SiPass integrated software extensions, you must first complete a software license order form. Please contact your SiPass integrated supplier for further information.</p>	6FL7820-8AE06
<p><b>ASE5300-MA</b></p> <p><b>Management station application programming interface (API) license</b></p> <p>The Management Station Application Programming Interface (API) allows you to integrate SiPass integrated alarms and monitoring with existing building management solutions. This provides the opportunity to create a seamless connection for all your building monitoring needs. You can achieve an effective solution by overseeing and manually commanding all of your SiPass integrated devices via a third-party building management application.</p> <p>Note: To facilitate seamless communication between the Management Station API and SiPass integrated, a small amount of software development is required for the third-party application. With the aid of the SiPass integrated Management Station API Development Guide, this task is relatively simple for a software engineer.</p> <p>To order the SiPass integrated software extensions, you must first complete a software license order form. Please contact your SiPass integrated supplier for further information.</p>	P24246-P2803-A1
<p><b>ASE5300-ME</b></p> <p><b>Mifare encoding license</b></p> <p>In many cases it is convenient to be able to use ID cards not only for access control but also for other applications. By using the SiPass Mifare encoding option, cards used for other applications, such as cashless payment for goods or food within company facilities, for example, can also be used for access control.</p> <p>To order the SiPass integrated software extensions, you must first complete a software license order form. Please contact your SiPass integrated supplier for further information.</p>	6FL7820-8AE20



Type	Order No.
<p><b>ASE5300-MF</b>                      <b>Message forwarding license</b></p> <p>Providing security around the clock is a challenge for every facility. The high cost of employing security guards overnight is prohibitive, but the risks of potential security breaches when the site is unmanned are huge. The SiPass integrated message forwarding option solves this problem. The ASE5300-MF messaging allows the system to automatically send custom text messages to pagers*, mobile telephones* or by e-mail. Using the latest telecommunication technology, it is possible to notify key personnel, who may otherwise be absent from a premises, when security has been breached. This allows a timely and appropriate response to any alarm situation.</p> <p>ASE5300-MF software can also forward alarms and messages to the central controlling software of other SiPass integrated servers that reside on the same LAN/WAN. If a business with a SiPass integrated system is not manned, alarms can be automatically forwarded to a location with security operators who are monitoring SiPass integrated based activity.</p> <p>*Ask your service provider about compatibility.</p> <p>To order the SiPass integrated software extensions, you must first complete a software license order form. Please contact your SiPass integrated supplier for further information.</p>	<p><b>6FL7820-8AE03</b></p>
<p><b>ASE5300-MM</b>                      <b>MM8000 interface license</b></p> <p>Security at any facility extends beyond just the physical entrances and exits. A high security facility today provides a safe environment in which to work including access control, video surveillance, alarm management, and protection against the threat of fire. The SiPass integrated MM8000 interface allows your access control system to seamlessly integrate with an advanced danger management system providing a single location for monitoring all your security and safety needs.</p> <p>To order the SiPass integrated software extensions, you must first complete a software license order form. Please contact your SiPass integrated supplier for further information.</p>	<p><b>P24246-P2802-A1</b></p>
<p><b>ASE5300-OC</b>                      <b>OPC client license</b></p> <p>The OPC client makes it possible to connect to OPC servers so that SiPass integrated can receive alarm and event information from other systems, creating a single application for real-time monitoring and notification. Once a message is received, SiPass integrated displays it within its own graphical user interface (GUI), which means that the operator does need not change applications to view it.</p> <p>To order the SiPass integrated software extensions, you must first complete a software license order form. Please contact your SiPass integrated supplier for further information.</p>	<p><b>6FL7820-8AE13</b></p>
<p><b>ASE5300-OS</b>                      <b>OPC server interface license</b></p> <p>The OPC server interface makes it possible to broadcast details of SiPass integrated events and alarms to OPC clients such as building management systems and receive acknowledgements from those systems.</p> <p>To order the SiPass integrated software extensions, you must first complete a software license order form. Please contact your SiPass integrated supplier for further information.</p>	<p><b>6FL7820-8AE12</b></p>

## SiPass integrated Software Extensions

Type	Order No.
<p><b>ASE5300-TE</b>      <b>Additional site/facility code license</b></p> <p>SiPass readers are the best choice for use in combination with SiPass integrated software, as they do not require any site or facility code. This is not the case for some third-party readers*, which require this license for each site or facility code.</p> <p>* Please contact your SiPass integrated supplier for further information.</p> <p>To order the SiPass integrated software extensions, you must first complete a software license order form. Please contact your SiPass integrated supplier for further information.</p>	6FL7820-8AE24
<p><b>ASE5300-TR</b>      <b>Time recording export license</b></p> <p>The ASE5300-TR time recording export software allows advanced time-handling of employees with access cards. It is possible to use the system to register when employees arrive for work and leave at the end of the day, then have this data exported to an external file. This file can then be used for time-keeping records or payroll systems.</p> <p>To order the SiPass integrated software extensions, you must first complete a software license order form. Please contact your SiPass integrated supplier for further information.</p>	6FL7820-8AE22
<p><b>ASE5300-VA</b>      <b>DVR application programming interface (API) license</b></p> <p>Using the DVR API, almost any generic DVR unit can become part of a SiPass integrated system. Many DVR management features are available, such as live image viewing, event-activated recording, image verification, and full PTZ camera movement.</p> <p>Note: To facilitate seamless communication between the DVR API and SiPass integrated, a small amount of software development is required for the third-party application. With the aid of the SiPass integrated DVR API Development Guide, this task is relatively simple for a software engineer.</p> <p>To order the SiPass integrated software extensions, you must first complete a software license order form. Please contact your SiPass integrated supplier for further information.</p>	P24246-P2804-A1
<p><b>ASE5300-VM</b>      <b>Visitor management license</b></p> <p>The modern office building is a complex affair. Personnel are often a mixture of permanent, contract and casual employees, each with different access requirements. If you add visitors, who can stay for periods ranging from a few hours to a few months, your cardholder management system can quickly become overloaded with information about both permanent and non-permanent cardholders. This might lead to confusion and inefficiencies in searching for records.</p> <p>SiPass integrated addresses these problems with the visitor management option. With a unique user interface dedicated to capturing visitor details, visitor management graphically separates visitor information while offering exactly the same card encoding, access control and imaging features available to normal cardholders. It also includes an extensive reporting facility for visitor transactions and custom data pages that can be created exclusively for visitor records.</p> <p>To order the SiPass integrated software extensions, you must first complete a software license order form. Please contact your SiPass integrated supplier for further information.</p>	6FL7820-8AE05




## SiPass integrated Firmware



Type		Order No.
AEU5000-AF	<b>Firmware upgrade from SR34i/4 to ACC-4</b> This firmware is used to upgrade an SR34i-4 to an ACC-4 for use with SiPass integrated.	P54511-P7-A1
AEU5000-AE	<b>Firmware upgrade from SR34i/8 to ACC-8</b> This firmware is used to upgrade an SR34i-8 to an ACC-8 for use with SiPass integrated.	P54511-P8-A1
AEU5000-AS	<b>Firmware upgrade from SR34i/16 to ACC-16</b> This firmware is used to upgrade an SR34i-16 to an ACC-16 for use with SiPass integrated.	P54511-P9-A1
AEU5000-AT	<b>Firmware upgrade from SR34i/32 to ACC-32</b> This firmware is used to upgrade an SR34i-32 to an ACC-32 for use with SiPass integrated.	P54511-P10-A1

## SiPass integrated Controllers

Type	Order No.																																						
AC5100	6FL7820-8BA10																																						
	<p><b>Advanced central controller</b></p> <p>The AC5100 advanced central controller can be programmed with up to 500,000 cardholders and up to 96 doors. It has been specially designed for maximum flexibility, and provides six separate field level network (FLN) channels. Each FLN is capable of hosting up to 16 local devices for access control, monitoring input devices or controlling output devices.</p> <p>The AC5100 also has a diagnostic port that provides a direct connection to its microprocessor to facilitate the download of operating instructions (firmware). Firmware updates can be made without having to visit the controller cabinets. Communication to the host system occurs via a 10/100Mb Ethernet connection. This allows communications over any WAN or LAN where devices on the network can be assigned a unique IP address. This type of communication ensures the fastest possible transaction times between the host system and AC5100 field panels.</p> <p>The AC5100 hosts a tamper input that can be used to detect if the cabinet in which it has been mounted has been opened. It also provides an alarm output that can operate a visual or audio alarm when security has been breached.</p> <table border="0"> <tr> <td data-bbox="392 972 612 994">Additional components</td> <td data-bbox="719 972 1046 1048">ACK5100 diagnostic/parameterization cable, ACK5110 cable for modem connection</td> </tr> <tr> <td data-bbox="392 1055 480 1077">Interface</td> <td data-bbox="719 1055 1046 1263">           Communication interfaces:           <ul style="list-style-type: none"> <li>• Field Level Network (FLN): 5 x RS485 plus 1 x RS232/RS485/RS422</li> <li>• Building Level Network (BLN): 10/100 MB Ethernet (RJ45)</li> <li>• RS232 (RxD, TxD, GND, RJ12) for Modem connection</li> </ul> </td> </tr> <tr> <td data-bbox="392 1270 564 1292">Operating voltage</td> <td data-bbox="719 1270 911 1292">24 VDC (-10 / +20%)</td> </tr> <tr> <td data-bbox="392 1299 580 1321">Power consumption</td> <td data-bbox="719 1299 767 1321">10 W</td> </tr> <tr> <td data-bbox="392 1328 507 1350">Alarm input</td> <td data-bbox="719 1328 1046 1382">1 x Tamper input (internally supplied, unsupervised)</td> </tr> <tr> <td data-bbox="392 1388 520 1411">Alarm output</td> <td data-bbox="719 1388 991 1464">1 x Alarm output (externally supplied MOSFET switch, max 12V, 100 mA)</td> </tr> <tr> <td data-bbox="392 1471 523 1494">Door capacity</td> <td data-bbox="719 1471 743 1494">96</td> </tr> <tr> <td data-bbox="392 1500 520 1523">Card capacity</td> <td data-bbox="719 1500 799 1523">500,000</td> </tr> <tr> <td data-bbox="392 1529 488 1552">Indicators</td> <td data-bbox="719 1529 1038 1606">FLN communication, Modem, Status, Battery, Ethernet, Compact Flash</td> </tr> <tr> <td data-bbox="392 1612 507 1635">LCD Display</td> <td data-bbox="719 1612 767 1635">None</td> </tr> <tr> <td data-bbox="392 1641 464 1664">Keypad</td> <td data-bbox="719 1641 767 1664">None</td> </tr> <tr> <td data-bbox="392 1671 533 1693">Tamper switch</td> <td data-bbox="719 1671 799 1693">Optional</td> </tr> <tr> <td data-bbox="392 1700 612 1722">Operating temperature</td> <td data-bbox="719 1700 823 1722">0 to +50 °C</td> </tr> <tr> <td data-bbox="392 1729 517 1751">Environment</td> <td data-bbox="719 1729 863 1751">Indoor use only</td> </tr> <tr> <td data-bbox="392 1758 472 1780">Housing</td> <td data-bbox="719 1758 831 1780">Steel/Plastic</td> </tr> <tr> <td data-bbox="392 1787 456 1809">Colour</td> <td data-bbox="719 1787 767 1809">Grey</td> </tr> <tr> <td data-bbox="392 1816 612 1839">Dimensions (W x H x D)</td> <td data-bbox="719 1816 903 1839">246 x 291 x 98 mm</td> </tr> <tr> <td data-bbox="392 1845 464 1868">Weight</td> <td data-bbox="719 1845 791 1868">2.67 kg</td> </tr> <tr> <td data-bbox="392 1874 480 1897">Approval</td> <td data-bbox="719 1874 879 1897">CE, UL294, C-Tick</td> </tr> </table>	Additional components	ACK5100 diagnostic/parameterization cable, ACK5110 cable for modem connection	Interface	Communication interfaces: <ul style="list-style-type: none"> <li>• Field Level Network (FLN): 5 x RS485 plus 1 x RS232/RS485/RS422</li> <li>• Building Level Network (BLN): 10/100 MB Ethernet (RJ45)</li> <li>• RS232 (RxD, TxD, GND, RJ12) for Modem connection</li> </ul>	Operating voltage	24 VDC (-10 / +20%)	Power consumption	10 W	Alarm input	1 x Tamper input (internally supplied, unsupervised)	Alarm output	1 x Alarm output (externally supplied MOSFET switch, max 12V, 100 mA)	Door capacity	96	Card capacity	500,000	Indicators	FLN communication, Modem, Status, Battery, Ethernet, Compact Flash	LCD Display	None	Keypad	None	Tamper switch	Optional	Operating temperature	0 to +50 °C	Environment	Indoor use only	Housing	Steel/Plastic	Colour	Grey	Dimensions (W x H x D)	246 x 291 x 98 mm	Weight	2.67 kg	Approval	CE, UL294, C-Tick
Additional components	ACK5100 diagnostic/parameterization cable, ACK5110 cable for modem connection																																						
Interface	Communication interfaces: <ul style="list-style-type: none"> <li>• Field Level Network (FLN): 5 x RS485 plus 1 x RS232/RS485/RS422</li> <li>• Building Level Network (BLN): 10/100 MB Ethernet (RJ45)</li> <li>• RS232 (RxD, TxD, GND, RJ12) for Modem connection</li> </ul>																																						
Operating voltage	24 VDC (-10 / +20%)																																						
Power consumption	10 W																																						
Alarm input	1 x Tamper input (internally supplied, unsupervised)																																						
Alarm output	1 x Alarm output (externally supplied MOSFET switch, max 12V, 100 mA)																																						
Door capacity	96																																						
Card capacity	500,000																																						
Indicators	FLN communication, Modem, Status, Battery, Ethernet, Compact Flash																																						
LCD Display	None																																						
Keypad	None																																						
Tamper switch	Optional																																						
Operating temperature	0 to +50 °C																																						
Environment	Indoor use only																																						
Housing	Steel/Plastic																																						
Colour	Grey																																						
Dimensions (W x H x D)	246 x 291 x 98 mm																																						
Weight	2.67 kg																																						
Approval	CE, UL294, C-Tick																																						



## Type

## Order No.

### AC5102



### Advanced central controller

The AC5102 advanced central controller can be programmed with up to 500,000 cardholders and up to 96 doors. It has been specially designed for maximum flexibility, and provides six separate field level network (FLN) channels. Each FLN is capable of hosting up to 16 local devices for access control, monitoring input devices or controlling output devices.

The AC5102 also has a diagnostic port that provides a direct connection to its micro-processor to facilitate the download of operating instructions (firmware). Firmware updates can be made without having to visit the controller cabinets. Communication to the host system occurs via a 10/100Mb Ethernet connection. This allows communications over any WAN or LAN where devices on the network can be assigned a unique IP address. This type of communication ensures the fastest possible transaction times between the host system and AC5102 field panels.


The AC5102 hosts a tamper input that can be used to detect if the cabinet in which it has been mounted has been opened. It also provides an alarm output that can operate a visual or audio alarm when security has been breached.

Note: The AC 5102 will be released during autumn 2011.

Additional components	ACK5110 cable for modem connection
Interface	- 6 x Field level network (FLN): – FLN 1: RS232 (modem port) or RS422 / RS485 – FLN 2 & 3: RS232 / RS422 / RS485 – FLN 4,5,6: RS485 only - 1 x RS232 (Rx/D, Tx/D, GND, RJ12) - 2 x LAN: RJ45 (10/100 MB Ethernet) - 1 x USB - 1 x USB-PC
Operating voltage	12/24 VDC (-10 / +15%)
Power consumption	Max. 10 W (fully loaded)
Alarm input	1 x Tamper input, 1 x Power fail input
Alarm output	1 x Alarm output (optical relay, max. 12 V, 100 mA)
Door capacity	96
Card capacity	500,000
Indicators	Power, Active, Error, COM, USB, SD-Card, 4 x Ethernet
LCD Display	None
Keypad	None
Tamper switch	Optional
Operating temperature	0 to +50 °C
Environment	Indoor use only
Housing	Steel
Colour	Grey and blue
Dimensions (W x H x D)	124 x 220 x 54 mm
Weight	990 g kg
Approval	CE, UL294, C-Tick, FCC

S54507-C22-A1

## SiPass integrated Controllers

Type	Order No.																																										
AC5160	6FL7820-8BA16																																										
	<p><b>SiPass integrated controller kit</b></p> <p>The AC5160 kit consists of an AC5100 controller and two dual-reader interfaces (DRI) in one enclosure. The components and a power supply are pre-assembled and wired.</p> <p>The architecture of the housing and the included accessory kit allows for an easy and quick installation. As all modules are pre-assembled only the connection to the power supply and the readers has to be established. The enclosure includes cable ducts with strain relief to enable easy wiring with external connection points.</p> <p>Additional space in the enclosure makes it possible to add extra SiPass integrated components. For example, it is possible to add up to four additional DRIs for a total of 12 readers. Depending on the extension an additional power supply might be required. In this case, the two power supplies will then operate in master/slave mode. The integrated tamper switch can be used to monitor the opening of the enclosure, which can then be configured as an alarm message in SiPass integrated.</p> <table border="0"> <tr> <td data-bbox="392 864 504 887">Kit includes</td> <td data-bbox="719 864 1043 1021">           1 x Advanced Central Controller (AC5100)            2 x Dual Reader Interface modules (ADD5100)            1 x Power supply            1 x Enclosure         </td> </tr> <tr> <td data-bbox="392 1025 523 1048">Supplied with</td> <td data-bbox="719 1025 1051 1077">230 VAC-24 VDC power supply with battery backup option.</td> </tr> <tr> <td data-bbox="392 1081 612 1104">Additional components</td> <td data-bbox="719 1081 1046 1160">ACK5100 diagnostic/parameterization cable, ACK5110 cable for modem connection</td> </tr> <tr> <td data-bbox="392 1164 564 1187">Operating voltage</td> <td data-bbox="719 1164 911 1187">24 VDC (-10 / +20%)</td> </tr> <tr> <td data-bbox="392 1191 596 1214">Current consumption</td> <td data-bbox="719 1191 1031 1249">1.2 A @ 230 VAC per power pack (including battery charging)</td> </tr> <tr> <td data-bbox="392 1254 507 1276">Alarm input</td> <td data-bbox="719 1254 1043 1312">1 x Tamper input (internally supplied, unsupervised)</td> </tr> <tr> <td data-bbox="392 1317 520 1339">Alarm output</td> <td data-bbox="719 1317 991 1395">1 x Alarm output (externally supplied MOSFET switch, max 12V, 100 mA)</td> </tr> <tr> <td data-bbox="392 1400 523 1422">Door capacity</td> <td data-bbox="719 1400 746 1422">96</td> </tr> <tr> <td data-bbox="392 1426 520 1449">Card capacity</td> <td data-bbox="719 1426 799 1449">500,000</td> </tr> <tr> <td data-bbox="392 1453 488 1476">Indicators</td> <td data-bbox="719 1453 1035 1532">FLN communication, Modem, Status, Battery, Ethernet, Compact Flash</td> </tr> <tr> <td data-bbox="392 1536 507 1559">LCD Display</td> <td data-bbox="719 1536 772 1559">None</td> </tr> <tr> <td data-bbox="392 1563 464 1585">Keypad</td> <td data-bbox="719 1563 772 1585">None</td> </tr> <tr> <td data-bbox="392 1590 533 1612">Tamper switch</td> <td data-bbox="719 1590 820 1612">Integrated</td> </tr> <tr> <td data-bbox="392 1617 612 1639">Operating temperature</td> <td data-bbox="719 1617 847 1639">-10 to +55 °C</td> </tr> <tr> <td data-bbox="392 1644 517 1666">Environment</td> <td data-bbox="719 1644 868 1666">Indoor use only</td> </tr> <tr> <td data-bbox="392 1671 472 1693">IP rating</td> <td data-bbox="719 1671 767 1693">IP30</td> </tr> <tr> <td data-bbox="392 1697 472 1720">Housing</td> <td data-bbox="719 1697 767 1720">Steel</td> </tr> <tr> <td data-bbox="392 1724 456 1747">Colour</td> <td data-bbox="719 1724 767 1747">Grey</td> </tr> <tr> <td data-bbox="392 1751 612 1774">Dimensions (W x H x D)</td> <td data-bbox="719 1751 916 1774">500 x 750 x 200 mm</td> </tr> <tr> <td data-bbox="392 1778 456 1800">Weight</td> <td data-bbox="719 1778 791 1800">21.3 kg</td> </tr> <tr> <td data-bbox="392 1805 472 1827">Approval</td> <td data-bbox="719 1805 746 1827">CE</td> </tr> </table>	Kit includes	1 x Advanced Central Controller (AC5100) 2 x Dual Reader Interface modules (ADD5100) 1 x Power supply 1 x Enclosure	Supplied with	230 VAC-24 VDC power supply with battery backup option.	Additional components	ACK5100 diagnostic/parameterization cable, ACK5110 cable for modem connection	Operating voltage	24 VDC (-10 / +20%)	Current consumption	1.2 A @ 230 VAC per power pack (including battery charging)	Alarm input	1 x Tamper input (internally supplied, unsupervised)	Alarm output	1 x Alarm output (externally supplied MOSFET switch, max 12V, 100 mA)	Door capacity	96	Card capacity	500,000	Indicators	FLN communication, Modem, Status, Battery, Ethernet, Compact Flash	LCD Display	None	Keypad	None	Tamper switch	Integrated	Operating temperature	-10 to +55 °C	Environment	Indoor use only	IP rating	IP30	Housing	Steel	Colour	Grey	Dimensions (W x H x D)	500 x 750 x 200 mm	Weight	21.3 kg	Approval	CE
Kit includes	1 x Advanced Central Controller (AC5100) 2 x Dual Reader Interface modules (ADD5100) 1 x Power supply 1 x Enclosure																																										
Supplied with	230 VAC-24 VDC power supply with battery backup option.																																										
Additional components	ACK5100 diagnostic/parameterization cable, ACK5110 cable for modem connection																																										
Operating voltage	24 VDC (-10 / +20%)																																										
Current consumption	1.2 A @ 230 VAC per power pack (including battery charging)																																										
Alarm input	1 x Tamper input (internally supplied, unsupervised)																																										
Alarm output	1 x Alarm output (externally supplied MOSFET switch, max 12V, 100 mA)																																										
Door capacity	96																																										
Card capacity	500,000																																										
Indicators	FLN communication, Modem, Status, Battery, Ethernet, Compact Flash																																										
LCD Display	None																																										
Keypad	None																																										
Tamper switch	Integrated																																										
Operating temperature	-10 to +55 °C																																										
Environment	Indoor use only																																										
IP rating	IP30																																										
Housing	Steel																																										
Colour	Grey																																										
Dimensions (W x H x D)	500 x 750 x 200 mm																																										
Weight	21.3 kg																																										
Approval	CE																																										



## Type

## Order No.

AC5200

### ACC-Lite



The AC5200 is a smaller version of Siemens' high-performance IP-based advanced central controller models (AC5100 and AC5102). It can manage up to 40,000 cardholders.

The ACC-Lite has been specially designed to provide a low-cost alternative for smaller or branch installations. It provides one field level network (FLN) channel which is capable of hosting up to 8 doors for access control, monitoring input devices or controlling output devices.

Firmware can be easily downloaded or updated via TCP/IP connection without having to visit the controller cabinets. Communication with the host system occurs via a two-port Ethernet switch which provides 10/100Mb LAN connection. This makes it possible to "daisy chain" controllers. TCP/IP communication ensures the fastest possible transaction times between the host system and the field panels.

In case of power failure the database on the ACC-Lite is protected in battery-backed memory. This maintains the integrity of the access control data and ensures that the ACC-Lite is back online as soon as power is restored.

Interface	Communication interfaces: RS232, RS485, TC/IP for LAN/WAN <ul style="list-style-type: none"> <li>• RJ45: 2 x Points, 10/100 MB Ethernet (Switched)</li> <li>• RS485: FLN interface, two-wire, max. eight devices per FLN bus.</li> <li>• RS232 modem communications</li> </ul>
Operating voltage	8 to 40 VDC, 8 to 30 VAC
Current consumption	100 mA @24V DC 200 mA @12V DC
Power consumption	24 W
Door capacity	Eight
Card capacity	40,000
LCD Display	Alphanumeric
Keypad	4 x 4 matrix
Tamper switch	Integrated
Operating temperature	0 to +50 °C
Environment	Indoor use only
Housing	Plastic housing for wall mounting
Colour	White
Dimensions (W x H x D)	248 x 182 x 66 mm
Weight	0.70 kg
Approval	CE, C-Tick

S54507-C5-A1

## SiPass integrated Door Modules

Type	Order No.																						
<b>ADS5200</b>  	<b>6FL7820-8CA20</b>																						
<b>Single reader interface module including base plate</b>																							
<p>The ADS5200 provides a Clock&amp;Data/Wiegand interface between a card reader and the advanced central controller (AC5100, ADS5102 or AC5200) for one card reader. When a cardholder presents an access card at an entry or exit reader the ADS5200 reader interface interprets the encoded information and sends this data to the controller. The controller then checks the validity of the cardholder, and if the appropriate permissions have been assigned, the controller sends a message back to the reader interface allowing it to unlock the door and provide passage. It can also report the status of the door (locked or unlocked) at any time.</p>																							
<p>Note: The ADS5200 does not have an RS485 interface for card readers. It supports Clock&amp;Data and Wiegand readers only.</p>																							
<table> <tr> <td data-bbox="392 757 478 779">Interface</td> <td data-bbox="719 757 1053 835">FLN connection to controller: RS485 To readers:Clock&amp;Data or Wiegand port</td> </tr> <tr> <td data-bbox="392 842 564 864">Operating voltage</td> <td data-bbox="719 842 791 893">12 VDC ±20 %</td> </tr> <tr> <td data-bbox="392 900 584 922">Power consumption</td> <td data-bbox="719 900 770 922">12 W</td> </tr> <tr> <td data-bbox="392 929 472 952">Outputs</td> <td data-bbox="719 929 1053 1005">1 x Lock output relay (30 VDC, 2 A) 1x Open-collector output (100 mA, 12 VDC)</td> </tr> <tr> <td data-bbox="392 1012 453 1034">Inputs</td> <td data-bbox="719 1012 1027 1140">1 x REX-button 1 x Door contact 2 x Auxiliary All inputs unsupervised or supervised</td> </tr> <tr> <td data-bbox="392 1146 533 1169">Tamper switch</td> <td data-bbox="719 1146 946 1169">Optional, auxiliary input</td> </tr> <tr> <td data-bbox="392 1176 485 1198">Firmware</td> <td data-bbox="719 1176 895 1198">Flash upgradeable</td> </tr> <tr> <td data-bbox="392 1205 488 1227">Indicators</td> <td data-bbox="719 1205 1018 1227">Power, Activity, Communication</td> </tr> <tr> <td data-bbox="392 1234 612 1256">Dimensions (W x H x D)</td> <td data-bbox="719 1234 906 1256">125 x 125 x 34 mm</td> </tr> <tr> <td data-bbox="392 1263 464 1285">Weight</td> <td data-bbox="719 1263 791 1285">0.25 kg</td> </tr> <tr> <td data-bbox="392 1292 477 1314">Approval</td> <td data-bbox="719 1292 882 1314">CE, UL294, C-Tick</td> </tr> </table>	Interface	FLN connection to controller: RS485 To readers:Clock&Data or Wiegand port	Operating voltage	12 VDC ±20 %	Power consumption	12 W	Outputs	1 x Lock output relay (30 VDC, 2 A) 1x Open-collector output (100 mA, 12 VDC)	Inputs	1 x REX-button 1 x Door contact 2 x Auxiliary All inputs unsupervised or supervised	Tamper switch	Optional, auxiliary input	Firmware	Flash upgradeable	Indicators	Power, Activity, Communication	Dimensions (W x H x D)	125 x 125 x 34 mm	Weight	0.25 kg	Approval	CE, UL294, C-Tick	
Interface	FLN connection to controller: RS485 To readers:Clock&Data or Wiegand port																						
Operating voltage	12 VDC ±20 %																						
Power consumption	12 W																						
Outputs	1 x Lock output relay (30 VDC, 2 A) 1x Open-collector output (100 mA, 12 VDC)																						
Inputs	1 x REX-button 1 x Door contact 2 x Auxiliary All inputs unsupervised or supervised																						
Tamper switch	Optional, auxiliary input																						
Firmware	Flash upgradeable																						
Indicators	Power, Activity, Communication																						
Dimensions (W x H x D)	125 x 125 x 34 mm																						
Weight	0.25 kg																						
Approval	CE, UL294, C-Tick																						



Type

Order No.

ADS5210

**Single reader interface module including base plate and plastic housing**

6FL7820-8CA21




The ADS5210 provides a Clock&Data/Wiegand interface between a card reader and the advanced central controller (AC5100, AC5102 or AC5200) for one card reader. When a cardholder presents the access card at an entry or exit reader the ADS5210 reader interface interprets the encoded information and sends this data to the controller. The controller then checks the validity of the cardholder, and if the appropriate permissions have been assigned, the controller sends a message back to the reader interface allowing it to unlock the door and provide passage. It can also report the status of the door (locked or unlocked) at any time.

Note: The ADS5210 does not have an RS485 interface for card readers. It supports Clock&Data and Wiegand readers only.

Interface	FLN connection to controller: RS485 To readers: Clock&Data or Wiegand port
Operating voltage	12 VDC ±20 %
Power consumption	12 W
Outputs	1 x Lock output relay (30 VDC, 2 A) 1x Open-collector output (100 mA, 12 VDC)
Inputs	1 x REX-button 1 x Door contact 2 x Auxiliary All inputs unsupervised or supervised
Tamper switch	Optional, auxiliary input
Firmware	Flash upgradeable
Indicators	Power, Activity, Communication
Dimensions (W x H x D)	150 x 150 x 76 mm
IP rating	IP55
Housing	ABS plastic
Weight	0.55 kg
Approval	CE

## SiPass integrated Door Modules

Type	Order No.
<b>ADD5100</b>  	<b>6FL7820-8CA10</b>
<b>Dual reader interface including base plate</b>	
<p>The ADD5100 provides an interface between a card reader and the advanced central controller (AC5100, AC5102 or AC5200) for up to two card readers. When a cardholder presents an access card at an entry or exit reader the ADD5100 reader interface interprets the encoded information and sends this data to the controller. The controller then checks the validity of the cardholder, and if the appropriate permissions have been assigned, the controller sends a message back to the reader interface allowing it to unlock the door and provide passage. It can also report the status of the door (locked or unlocked) at any time.</p>	
Interface	FLN connection to controller: RS485 To readers: One RS485 bus for up to two RS485 readers CerPass protocol) OR two Wiegand/Clock&Data ports
Operating voltage	12 to 32 VDC ±20 %
Power output	Reader: 300 mA Ancillary: 1 A
Power consumption	25 W
Outputs	1 x Lock output relay (30 VDC, 2 A) 1 x Auxiliary relay (30 VDC, 2 A)
Inputs	1 x REX-button 1 x Door contact 3 x Auxiliary All inputs unsupervised or supervised
Tamper switch	Optional, auxiliary input
Firmware	Flash upgradeable
Indicators	Power, Activity, Communication
Dimensions (W x H x D)	125 x 125 x 34 mm
Weight	0.3 kg
Approval	CE, UL294, C-Tick





Type

Order No.

ADD5110

**Dual reader interface including base plate and plastic housing**


6FL7820-8CA11



The ADD5110 provides an interface between a card reader and the advanced central controller (AC5100, AC5102 or AC5200) for up to two card readers. When a cardholder presents the access card at an entry or exit reader the ADD5110 reader interface interprets the encoded information and sends this data to the controller. The controller then checks the validity of the cardholder, and if the appropriate permissions have been assigned, the controller sends a message back to the reader interface allowing it to unlock the door and provide passage. It can also report the status of the door (locked or unlocked) at any time.

Interface	FLN connection to controller: RS485 To reader: One RS485 bus for up to two RS485 readers (CerPass protocol) OR two Wiegand/Clock&Data ports
Operating voltage	12 to 32 VDC ±20 %
Power output	Reader: 300 mA Ancillary: 1 A
Power consumption	25 W
Outputs	1 x Lock output relay (30 VDC, 2 A) 1 x Auxiliary relay (30 VDC, 2 A)
Inputs	1 x REX-button 1 x Door contact 3 x Auxiliary All inputs unsupervised or supervised
Tamper switch	Optional, auxiliary input
Firmware	Flash upgradeable
Indicators	Power, Activity, Communication
Dimensions (W x H x D)	150 x 150 x 76 mm
IP rating	IP55
Housing	ABS plastic
Weight	0.55 kg
Approval	CE

## SiPass integrated Door Modules

Type	Order No.
<b>ADD5160</b>  	<b>6FL7820-8CA16</b>
<b>Dual reader interface module in weatherproof housing</b>	
<p>The ADD5160 provides an interface between a card reader and the advanced central controller (AC5100, AC5102 or AC5200) for up to two card readers. When a cardholder presents an access card at an entry or exit reader the ADD5160 reader interface interprets the encoded information and sends this data to the controller. The controller then checks the validity of the cardholder, and if the appropriate permissions have been assigned, the controller sends a message back to the reader interface allowing it to unlock the door and provide passage. It can also report the status of the door (locked or unlocked) at any time.</p>	
Interface	FLN connection to controller: RS485 To reader: One RS485 bus for up to two RS485 readers (CerPass protocol) OR two Wiegand/Clock&Data ports
Operating voltage	12 to 32 VDC ±20 %
Power output	Reader: 300 mA Ancillary: 1 A
Power consumption	25 W
Outputs	1 x Lock output relay (30 VDC, 2 A) 1 x Auxiliary relay (30 VDC, 2 A)
Inputs	1 x REX-button 1 x Door contact 3 x Auxiliary All inputs unsupervised or supervised
Tamper switch	Optional, auxiliary input
Firmware	Flash upgradeable
Indicators	Power, Activity, Communication
Dimensions (W x H x D)	180 x 180 x 60 mm
IP rating	IP66
Housing	ABS plastic
Weight	0.5 kg
Approval	CE



## Type

## Order No.

ADD5190

### Dual reader interface module in cabinet

S54505-C16-A1



The ADD5190 provides an interface between a card reader and the central controller (AC5100, AC5102 or AC5200) for up to two card readers. When a cardholder presents the access card at an entry or exit reader the ADD5190 reader interface interprets the encoded information and sends this data to the central controller. The controller then checks the validity of the cardholder, and if the appropriate permissions have been assigned, the controller sends a message back to the reader interface allowing it to unlock the door and provide passage. It can also report the status of the door being locked or unlocked at any time.

Interface	FLN connection to controller: RS485 To reader: One RS485 bus for up to two RS485 readers (CerPass protocol) OR two Wiegand/Clock&Data ports
Operating voltage	12 to 32 VDC ±20 %
Power output	Reader: 300 mA Ancillary: 1 A
Power consumption	25 W
Outputs	1 x Lock output relay (30 VDC, 2 A) 1 x Auxiliary relay (30 VDC, 2 A)
Inputs	1 x REX-button 1 x Door contact 3 x Auxiliary All inputs unsupervised or supervised
Tamper switch	Optional, auxiliary input
Firmware	Flash upgradeable
Indicators	Power, Activity, Communication
Dimensions (W x H x D)	200 x 300 x 95 mm
IP rating	IP20
Housing	Steel
Weight	2.8 kg
Approval	CE

## SiPass integrated Door Modules

Type	Order No.
<b>ADE5300</b>  	<b>S24246-A2500-A1</b>
<b>Eight-reader interface, including base plate</b>	
<p>The ADE5300 provides a local interface between the advanced central controller (AC5100, AC5102 or AC5200) and up to 8 card readers. From the ADE5300, the information held within the access cards is transmitted to the controller. Each time an access attempt is made the controller verifies the data on the ID card and will then either allow or deny access. The ADE5300 can be configured to control up to 8 doors separately or up to 4 doors that include both entry and exit readers. All variations are possible; for example, you can have six single-reader doors and 1 dual-reader door connected to one ADE5300.</p>	
Interface	FLN connection to controller: RS485 To readers: Support for eight readers in a mix of RS485 and Wiegand/Clock&Data
Operating voltage	12 to 15 VDC ±10 % 24 VDC -15 to +10 %
Power output	Reader: 8 x 400 mA, 12 VDC Ancillary: 1 x 1.5 A, 12 VDC
Current consumption	Max. 2 A at 12 V, max. 1.5 A at 24 V
Outputs	8 x Lock output relay (30 VDC, 2 A) 8 x Open-collector output (100 mA, 9.7-12 VDC) 2 x Fire override relay (30 VDC, 2 A)
Inputs	8 x Door contact 8 x Request-to-exit 16 x Auxiliary All inputs unsupervised or supervised 2 x Fire override (normal or enhanced mode)
Tamper switch	Optional, auxiliary input
Firmware	Flash upgradeable
Indicators	Power, Activity, FLN Communication, Reader bus communication, Input/output, Fire override
Dimensions (W x H x D)	250 x 287 x 50 mm
Weight	1.65 kg
Approval	CE, UL294, C-Tick

## SiPass integrated Door Modules



### Type

### Order No.

DC12

#### Door controller for use with reader(s)

S24246-C8502-A1




The DC12 is designed to monitor and control one door in a SiPass Entro or SiPass integrated system. When BC-Link is used, a single DC12 can support two readers and thereby control both entries and exits to a restricted area (anti-passback).

The DC12 includes an integrated status display window to simplify installation and service. It is compatible both with SiPass readers and with most third-party readers that support Wiegand and Clock&Data standards.

Interface	To reader: BC-Link, Clock&Data (track 2) or Wiegand (26 bit, 32 bit, 8 bit burst) To controller: RS485 system com bus
Operating voltage	8 to 40 VDC, 8 to 30 VAC
Power consumption	Without reader Power save 12V DC: 0.59 W Full on 12V DC: 0.76 W Power save 24V DC: 0.63 W Full on 24V DC: 0.79 W
Inputs	Exit button request with delay. Door contact for indicating closed/open door
Outputs	Voltage-free relay contact, max. 2 A, 30 V.
Tamper switch	Integrated
Operating temperature	-35 to +50 °C
Environment	Indoor use only
Housing	Wall-mounted composite housing
Colour	White
Dimensions (W x H x D)	250 x 128 x 54 mm
Weight	0.5 kg
Approval	CE

4

## SiPass integrated Door Modules

Type	Order No.																										
DC22	S24246-C8503-A1																										
	<p><b>Door controller with alarm control functions</b></p> <p>The DC22 is designed to monitor and control one door in a SiPass Entro or SiPass integrated system. When BC-Link is used, a single DC22 can support two readers and thereby control both entries and exits to a restricted area (anti-passback).</p> <p>The DC22 includes an integrated status display window to simplify installation and service. It is compatible both with SiPass readers and with most third-party readers that support Wiegand and Clock&amp;Data standards.</p> <p>The major difference between the DC12 and the DC22 is that the DC22 has additional inputs/outputs that support advanced alarm control functions, e.g. alarm status feedback (ASF). These are essential when integration with an intrusion detection system is required. The DC22 also has two outputs for electric locks (day/night lock) as well as separate inputs for open/closed and unlocked/locked door.</p> <p>Note: The intrusion and ASF functions of the DC22 are only available in SiPass Entro.</p> <table border="0"> <tr> <td data-bbox="392 913 480 936">Interface</td> <td data-bbox="719 913 1050 1048">To reader: BC-Link, Clock&amp;Data (track 2) or Wiegand (26 bit, 32 bit, 8 bit burst). To controller: RS485 system com bus.</td> </tr> <tr> <td data-bbox="392 1055 564 1077">Operating voltage</td> <td data-bbox="719 1055 954 1077">8 to 40 VDC, 8 to 30 VAC</td> </tr> <tr> <td data-bbox="392 1084 580 1106">Power consumption</td> <td data-bbox="719 1084 979 1218">Without reader Power save 12V DC: 0.65 W Full on 12V DC: 1.38 W Power save 24V DC: 0.68 W Full on 24V DC: 1.41 W</td> </tr> <tr> <td data-bbox="392 1225 453 1247">Inputs</td> <td data-bbox="719 1225 1050 1404">Exit button request with delay. Door contact for indicating closed/open door. Lock status sensor for indicating locked/unlocked door. Alarm bypass activating from a button or a timer. Alarm Status Feedback (ASF). Indication of alarm status (red LED).</td> </tr> <tr> <td data-bbox="392 1411 469 1433">Outputs</td> <td data-bbox="719 1411 1050 1724">Voltage-free change over contact (lock relay), max. 2 A, 30V. Voltage-free closing contact (motorlock relay), max. 2 A, 30V. Voltage-free change over contact (alarm bypass relay), max. 2 A, 30V. Voltage-free closing contact (door held warning relay), max. 2 A, 30V. Voltage-free closing contact (pre-warning relay), max. 2 A, 30V. Voltage-free closing contact (alert relay), max. 2 A, 30V.</td> </tr> <tr> <td data-bbox="392 1731 533 1753">Tamper switch</td> <td data-bbox="719 1731 820 1753">Integrated</td> </tr> <tr> <td data-bbox="392 1760 612 1783">Operating temperature</td> <td data-bbox="719 1760 847 1783">-35 to +50 °C</td> </tr> <tr> <td data-bbox="392 1789 517 1812">Environment</td> <td data-bbox="719 1789 868 1812">Indoor use only</td> </tr> <tr> <td data-bbox="392 1818 469 1841">Housing</td> <td data-bbox="719 1818 1038 1841">Wall-mounted composite housing</td> </tr> <tr> <td data-bbox="392 1848 453 1870">Colour</td> <td data-bbox="719 1848 772 1870">White</td> </tr> <tr> <td data-bbox="392 1877 612 1899">Dimensions (W x H x D)</td> <td data-bbox="719 1877 900 1899">248 x 182 x 55 mm</td> </tr> <tr> <td data-bbox="392 1906 453 1928">Weight</td> <td data-bbox="719 1906 772 1928">0.7 kg</td> </tr> <tr> <td data-bbox="392 1935 469 1957">Approval</td> <td data-bbox="719 1935 740 1957">CE</td> </tr> </table>	Interface	To reader: BC-Link, Clock&Data (track 2) or Wiegand (26 bit, 32 bit, 8 bit burst). To controller: RS485 system com bus.	Operating voltage	8 to 40 VDC, 8 to 30 VAC	Power consumption	Without reader Power save 12V DC: 0.65 W Full on 12V DC: 1.38 W Power save 24V DC: 0.68 W Full on 24V DC: 1.41 W	Inputs	Exit button request with delay. Door contact for indicating closed/open door. Lock status sensor for indicating locked/unlocked door. Alarm bypass activating from a button or a timer. Alarm Status Feedback (ASF). Indication of alarm status (red LED).	Outputs	Voltage-free change over contact (lock relay), max. 2 A, 30V. Voltage-free closing contact (motorlock relay), max. 2 A, 30V. Voltage-free change over contact (alarm bypass relay), max. 2 A, 30V. Voltage-free closing contact (door held warning relay), max. 2 A, 30V. Voltage-free closing contact (pre-warning relay), max. 2 A, 30V. Voltage-free closing contact (alert relay), max. 2 A, 30V.	Tamper switch	Integrated	Operating temperature	-35 to +50 °C	Environment	Indoor use only	Housing	Wall-mounted composite housing	Colour	White	Dimensions (W x H x D)	248 x 182 x 55 mm	Weight	0.7 kg	Approval	CE
Interface	To reader: BC-Link, Clock&Data (track 2) or Wiegand (26 bit, 32 bit, 8 bit burst). To controller: RS485 system com bus.																										
Operating voltage	8 to 40 VDC, 8 to 30 VAC																										
Power consumption	Without reader Power save 12V DC: 0.65 W Full on 12V DC: 1.38 W Power save 24V DC: 0.68 W Full on 24V DC: 1.41 W																										
Inputs	Exit button request with delay. Door contact for indicating closed/open door. Lock status sensor for indicating locked/unlocked door. Alarm bypass activating from a button or a timer. Alarm Status Feedback (ASF). Indication of alarm status (red LED).																										
Outputs	Voltage-free change over contact (lock relay), max. 2 A, 30V. Voltage-free closing contact (motorlock relay), max. 2 A, 30V. Voltage-free change over contact (alarm bypass relay), max. 2 A, 30V. Voltage-free closing contact (door held warning relay), max. 2 A, 30V. Voltage-free closing contact (pre-warning relay), max. 2 A, 30V. Voltage-free closing contact (alert relay), max. 2 A, 30V.																										
Tamper switch	Integrated																										
Operating temperature	-35 to +50 °C																										
Environment	Indoor use only																										
Housing	Wall-mounted composite housing																										
Colour	White																										
Dimensions (W x H x D)	248 x 182 x 55 mm																										
Weight	0.7 kg																										
Approval	CE																										



Type

Order No.

AFI5100

**Input point module including base plate**

6FL7820-8CB10



The AFI5100 is a programmable input controller used as part of a SiPass integrated system. It provides a local interface between the advanced central controller (AC5100, AC5102 or AC5200) and the devices used to monitor a facility, such as infrared detectors. When an input device that is connected to an AFI5100 changes status, the AFI5100 registers the status change and forwards this data to the controller. After checking the validity of the data, the controller sends the message to the SiPass integrated server, so the alarm-handling mechanism can respond appropriately.

Interface	To controller: RS485
Operating voltage	12 to 24 VAC ±20 %
Power consumption	50 W
Inputs	32 x internally supplied (supervised or unsupervised) 1 x Tamper (internally supplied) 1 x Fire override (potential-free or internally supplied)
Outputs	4 x Auxiliary relays (30 VDC, 2 A) 1 x Alarm output (open-collector 12VDC, 200 mA) 1 x Fire override relay (30 VDC, 2 A)
Firmware	Flash upgradeable
Indicators	Power, Activity, Communication Inputs, Output Peripheral supplies Fire override
Operating temperature	0 to +50 °C
Dimensions (W x H x D)	250 x 287 x 30 mm
Approval	CE, UL294, C-Tick
Weight	1.35 kg

4

## SiPass integrated Signal Modules

Type	Order No.																						
AFO5100	6FL7820-8CC10																						
	<p><b>Output point module (16/16) including base plate</b></p> <p>The AFO5100 is an advanced, multi-purpose module that provides an interface between powered field-level input contact devices (such as elevator buttons) and output devices (such as override mechanisms) to the advanced central controller (AC5100, AC5102 or AC5200). It is designed for use in elevators that are integrated within an access control environment. A single AFO5100 can provide access control for up to 16 floors and multiple AFO5100 modules can be combined in an elevator system to provide access control for all floors. The fire override mechanism allows floors to be made automatically accessible during an emergency situation, a critical feature for sites where legislation requires strict emergency responses.</p> <table border="0"> <tr> <td data-bbox="395 703 480 725">Interface</td> <td data-bbox="719 703 911 725">To controller: RS485</td> </tr> <tr> <td data-bbox="395 734 564 757">Operating voltage</td> <td data-bbox="719 734 847 786">12 to 24 VAC ±20 %</td> </tr> <tr> <td data-bbox="395 792 580 815">Power consumption</td> <td data-bbox="719 792 767 815">50 W</td> </tr> <tr> <td data-bbox="395 824 453 846">Inputs</td> <td data-bbox="719 824 1023 1003">16 x Isolated (unsupervised external voltage required) 1 x Tamper (internally supplied) 2 x Fire override (potential-free or internally supplied)</td> </tr> <tr> <td data-bbox="395 1012 469 1034">Outputs</td> <td data-bbox="719 1012 1054 1115">16 x Relays (30 VDC, 2 A) 1 x Tamper (open-collector 12 VDC, 100 mA) 2 x Fire override relays (30 VDC, 2 A)</td> </tr> <tr> <td data-bbox="395 1124 485 1146">Firmware</td> <td data-bbox="719 1124 895 1146">Flash upgradeable</td> </tr> <tr> <td data-bbox="395 1155 485 1178">Indicators</td> <td data-bbox="719 1155 1015 1258">Power, Activity, Communication Inputs, Output Peripheral supplies Fire override</td> </tr> <tr> <td data-bbox="395 1267 612 1290">Operating temperature</td> <td data-bbox="719 1267 823 1290">0 to +50 °C</td> </tr> <tr> <td data-bbox="395 1299 612 1321">Dimensions (W x H x D)</td> <td data-bbox="719 1299 903 1321">216 x 267 x 30 mm</td> </tr> <tr> <td data-bbox="395 1330 480 1352">Approval</td> <td data-bbox="719 1330 879 1352">CE, UL294, C-Tick</td> </tr> <tr> <td data-bbox="395 1361 464 1384">Weight</td> <td data-bbox="719 1361 783 1384">1.3 kg</td> </tr> </table>	Interface	To controller: RS485	Operating voltage	12 to 24 VAC ±20 %	Power consumption	50 W	Inputs	16 x Isolated (unsupervised external voltage required) 1 x Tamper (internally supplied) 2 x Fire override (potential-free or internally supplied)	Outputs	16 x Relays (30 VDC, 2 A) 1 x Tamper (open-collector 12 VDC, 100 mA) 2 x Fire override relays (30 VDC, 2 A)	Firmware	Flash upgradeable	Indicators	Power, Activity, Communication Inputs, Output Peripheral supplies Fire override	Operating temperature	0 to +50 °C	Dimensions (W x H x D)	216 x 267 x 30 mm	Approval	CE, UL294, C-Tick	Weight	1.3 kg
Interface	To controller: RS485																						
Operating voltage	12 to 24 VAC ±20 %																						
Power consumption	50 W																						
Inputs	16 x Isolated (unsupervised external voltage required) 1 x Tamper (internally supplied) 2 x Fire override (potential-free or internally supplied)																						
Outputs	16 x Relays (30 VDC, 2 A) 1 x Tamper (open-collector 12 VDC, 100 mA) 2 x Fire override relays (30 VDC, 2 A)																						
Firmware	Flash upgradeable																						
Indicators	Power, Activity, Communication Inputs, Output Peripheral supplies Fire override																						
Operating temperature	0 to +50 °C																						
Dimensions (W x H x D)	216 x 267 x 30 mm																						
Approval	CE, UL294, C-Tick																						
Weight	1.3 kg																						





## Type

## Order No.

AFO5200

### Output point module (8/8) including base plate

S24246-A2600-A1




The AFO5200 is an advanced, multi-purpose module that provides an interface between field-level input devices (such as passive infrared detectors) and output devices (such as locking devices) to the advanced central controller (AC5100, AC5102 or AC5200).

Interface	To controller: RS485
Operating voltage	12/24 VDC (-15 to +10%)
Current consumption	Max. 2 A at 12 V, max. 1.5 A at 24 V
Inputs	8 x Isolated (internally supplied, unsupervised or supervised) 1 x Local input 1 x Fire override (potential-free or internally supplied)
Outputs	8 x Relays (30 VDC, 2 A) 1 x Local output (open-collector 9.7-12 VDC, 100 mA) 1 x Fire override relays (30 VDC, 2 A)
Firmware	Flash upgradeable
Indicators	Power, Activity, Communication Inputs, Output Peripheral supplies Fire override
Operating temperature	0 to +50 °C (32 to 122 °F)
Dimensions (W x H x D)	250 x 210 x 40 mm
Approval	CE, UL294, C-Tick
Weight	1 kg

4

## SiPass integrated Signal Modules

Type	Order No.
<b>IOR6</b>  	<b>S24246-C8501-A1</b>
<b>IO relay central</b>	<p>IOR6 is a general relay central designed for use with SiPass Entro and SiPass integrated. Its four inputs and six outputs can be used for applications such as common alarm outputs, fire alarm inputs, elevator control, machine control or door control (in reservation applications). IOR6 can also be used for timer functions.</p> <p>Please note in a SiPass Entro system, a maximum of 32 IOR6 units can be used for elevator control (for up to 192 floors). For other purposes, as many as 512 IOR6 units can be used in a SiPass Entro system; note, however, that the combined number of doors and IOR6 units connected to a single SiPass Entro system cannot exceed 512.</p>
Interface	To segment controller: RS485 system com bus.
Operating voltage	8-40 VDC 8-30 VAC
Power consumption	Power save 12V DC: 0.24 W Full on 12V DC: 1.57 W Power save 24V DC: 0.26 W Full on 24V DC: 2.57 W
Inputs	Four remote control inputs. Tamper switch for internal alarm.
Outputs	Two voltage-free change over relay contacts, max. 0.9 A, 60 V (2 A, 30 V). Four voltage-free closing relay contacts, max. 0.9 A, 60 V (2 A, 30 V). Six extra outputs which operate in parallel with above.
Tamper switch	Yes
Operating temperature	-35 to +50 °C
Environment	Indoor use only
Housing	Wall-mounted composite housing
Colour	White
Dimensions (W x H x D)	248 x 182 x 55 mm
Weight	0.7 kg
Approval	CE



## Type

## Order No.

ATI5100

### Intrusion arming terminal

ATI5100 is a field terminal designed for use with SiPass integrated. It acts as a local interface between an advanced central controller (AC5100, AC5102 or AC5200) and authorised cardholders, enabling them to carry out tasks such as arming and disarming intrusion alarm areas.



Interface	To controller: RS485
Operating voltage	9 to 30 VDC
Current consumption	Min. by 12 V: 35 mA Max. by 12 V: 82 mA
Tamper switch	Yes
Firmware	Flash upgradeable
Display	LC: 128 x 64 dots Four lines with 16 characters per line
Buzzer	Integrated Sound level: Different settings for alarms and key press
Operating temperature	0 to +50 °C
Relative humidity	93 % (no dew)
Housing	Polycarbonate
IP rating	IP30
Colour	RAL 9003
Dimensions (W x H x D)	112 x 185 x 28 mm
Weight	0.38 kg
Approval	CE, C-Tick, UL294 (pending)

S24246-F2605-A1

## SiPass integrated Kits

Type	Order No.
<p><b>AK5000-CO</b></p> <p><b>SiPass integrated Cotag Cards Kit</b></p> <p>The Cotag Cards Kit includes:</p> <ul style="list-style-type: none"> <li>• 1,000 IB958M passive Cotag cards with magnetic stripe</li> <li>• One Database extension license for 1,000 cards (ASE5100-BA)</li> </ul> <p>Siemens' Cotag technology is unique on the market in that it can provide both proximity and hands-free card reading in the same system. All Cotag readers can read both active (long-range) and passive (proximity) Cotag cards and tags, and both types of cards/tags can be mixed in the same system to provide ultimate convenience and cost-efficiency.</p> <p>This kit requires a valid SiPass integrated license. To order the SiPass integrated Cotag Card kit, you must complete a software license order form. Please contact your SiPass integrated supplier for further details.</p> 	S54511-S11-A1
<p><b>AK5110-CO</b></p> <p><b>SiPass integrated SP500-Cotag Door Kit</b></p> <p>The SP500-Cotag Door Kit includes:</p> <ul style="list-style-type: none"> <li>• One ADD5100 dual reader interface</li> <li>• Two SP500-Cotag readers</li> </ul> <p>Siemens' Cotag technology is unique on the market in that it can provide both proximity and hands-free card reading in the same system. All Cotag readers can read both active (long-range) and passive (proximity) Cotag cards and tags, and both types of cards/tags can be mixed in the same system to provide ultimate convenience and cost-efficiency.</p> 	S54505-S20-A1
<p><b>AK5120-CO</b></p> <p><b>SiPass integrated PR500-Cotag Door Kit</b></p> <p>The PR500-Cotag Door Kit includes:</p> <ul style="list-style-type: none"> <li>• One ADD5100 dual reader interface</li> <li>• Two PR500-Cotag readers</li> </ul> <p>Siemens' Cotag technology is unique on the market in that it can provide both proximity and hands-free card reading in the same system. All Cotag readers can read both active (long-range) and passive (proximity) Cotag cards and tags, and both types of cards/tags can be mixed in the same system to provide ultimate convenience and cost-efficiency.</p> 	S54505-S19-A1

**SIEMENS**



**1+1=3**

**Add SPC to SiPass integrated  
and the result is extraordinary!**

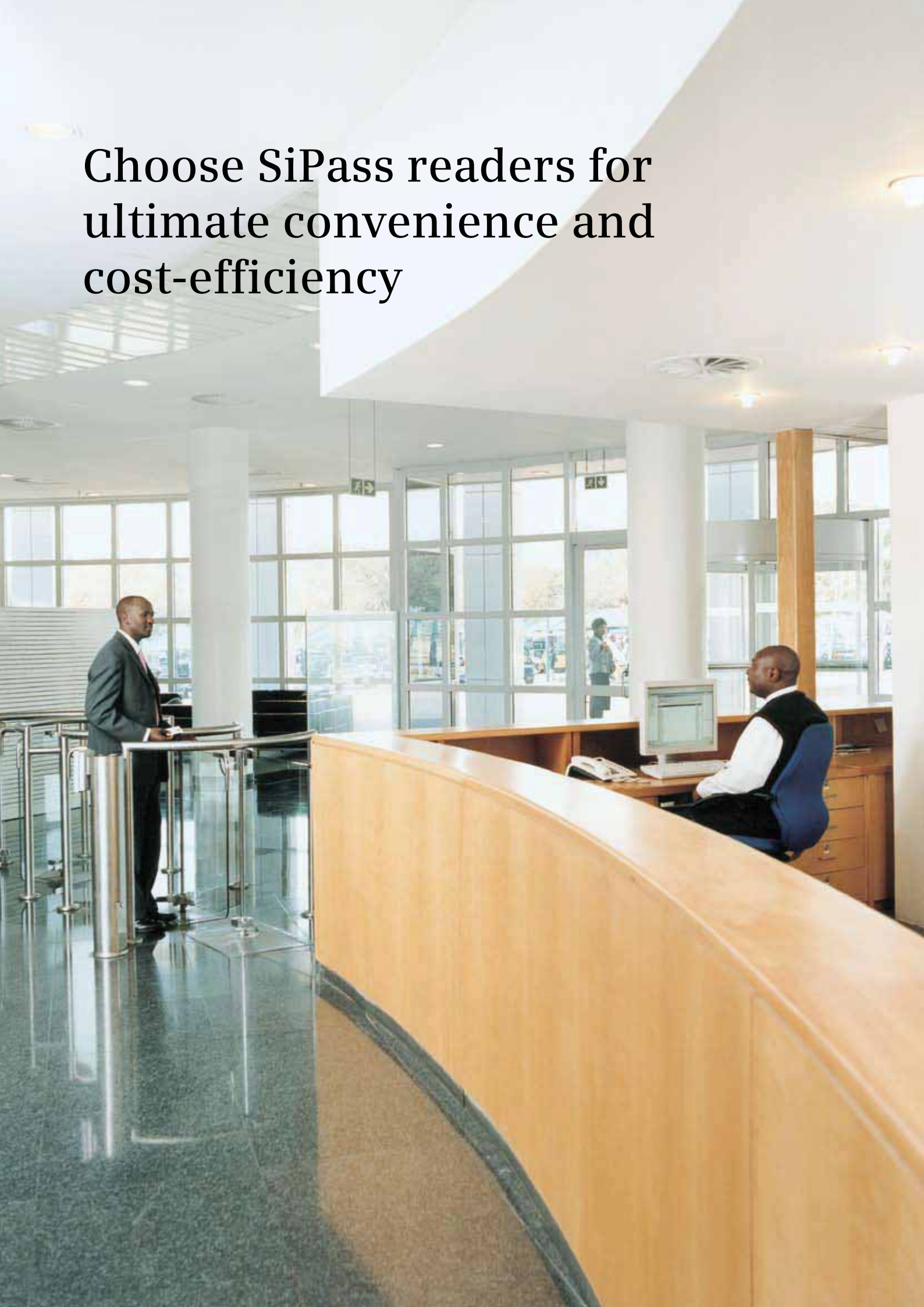
Answers for infrastructure.

When you add SPC to SiPass integrated you get a great deal more than the obvious advantages of a cutting-edge intrusion detection system and a world-class access control system. The synergies between these two systems put all the power of a fully interoperable security management system in the palm of your hand. SiPass integrated is a powerful and almost infinitely flexible access control system that provides a very high level of security without compromis-

ing convenience and ease of use for system users. Designed to meet access control needs that range in complexity from medium to very high, it offers advanced card management, multimedia alarm handling, video surveillance user interface and complete event logging in a single system. Now, with the high level communication between SiPass integrated and SPC, it is easier than ever to keep people, property and processes safe, today and tomorrow!

[www.siemens.com/securityproducts](http://www.siemens.com/securityproducts)

**Choose SiPass readers for  
ultimate convenience and  
cost-efficiency**



# SiPass readers



## Robust, reliable and easy to use

Siemens provides a wide range of readers to satisfy the access control requirements of most environments. Our readers can work with virtually any access control system on the market, but they are specifically tested and qualified for use with SiPass systems.


Designed for easy installation and use, the SiPass reader portfolio includes technologies ranging from magnetic stripe to 125 kHz proximity, multi-purpose smart card technology, and Cotag technology. Each technology type includes at least one model with an integrated keypad to enable card-plus-PIN functionality, which is ideal for higher security applications.

Siemens' Cotag technology is unique on the market in that it provides both proximity and hands-free card reading in the same system. All Cotag readers can read both active (long-range) and passive (proximity) Cotag cards and tags, and both types of cards can be mixed in the same system to provide ultimate convenience and cost-efficiency.

The majority of SiPass readers support Siemens' advanced reader protocols – BC-Link or CerPass (RS485). The advantages of using these protocols include the ability to connect two readers to a single door controller, which simplifies the installation and reduces costs, and active monitoring of reader status, which enhances security.

Whichever type of SiPass readers you choose, you can be confident that they will significantly enhance security at your site(s).

## Readers Cotag

Type	Order No.
<b>HF500-Cotag</b>  	<b>S24246-F4106-A1</b>
<b>Hands-free reader</b>	
<p>The HF500-Cotag reads Siemens unique Cotag cards and tags (both active and passive) which offer ultimate convenience and cost-efficiency. It has a reading range of up to 102 cm with an active card and 34 cm with a passive card. It can read through concrete, wood, glass and many other materials, but not metal. Although it must be mounted indoors, it can also read cards presented from outside, if the environment permits. For outdoor installations, use the BC5511-Cotag.</p>	
System compatibility Interface to controller Operating voltage Current consumption	SiPass Entro, SiPass integrated Clock&Data or Wiegand 10 to 35 VDC 200 mA @ 12V DC 100 mA @ 24V DC
Tamper switch Card technology Card compatibility	No Cotag IB911, IB928, IB958, IB958M, IB981, IB968 & IB970
Card read distance	Up to 102 cm with IB928 (active card). Up to 34 cm with IB968 (passive card).
Indicators	3 x LED (red/yellow/green) 1 x Buzzer
Keypad Operating temperature Environment	No 0 to +50 °C Indoor use only
IP rating Housing	IP54 UV-resistant ABS plastic
Colour Dimensions (W x H x D)	Light grey 220 x 265 x 29.3 mm
Weight Approval	0.40 kg CE
Accessories	None





Type

Order No.

BC5511-Cotag

Split-mounted hands-free reader


S24246-F4701-A1



The BC5511-Cotag is a hands-free card reader kit that consists of the BC5311 reader interface (mounted indoors) and the HF100 reader (mounted outdoors). It reads Siemens unique Cotag cards and tags (both active and passive) which offer ultimate convenience and cost-efficiency. It has a reading range of up to 90 cm with an active card and 35 cm with a passive card. It can read through concrete, wood, glass and many other materials, but not metal.

System compatibility	SiPass Entro, SiPass integrated
Interface to controller	Clock&Data or Wiegand
Operating voltage	10 to 35 VDC
Current consumption	290 mA @ 12V DC 160 mA @ 24V DC
Tamper switch	No
Card technology	Cotag
Card compatibility	IB911, IB928, IB958, IB958M, IB981, IB968 & IB970
Card read distance	Up to 90 cm with IB911 (active card), up to 35 cm with IB968 (passive card).
Indicators	3 x LED (red/yellow/green) 1 x Buzzer [HF100]
Keypad	No
Operating temperature	-40 to +70 °C. (HF100) 0 to +50 °C (BC5311)
Environment	Indoor for the reader interface and outdoor for the reader
IP rating	IP55 [HF100]
Housing	UV-resistant ABS plastic
Colour	Light grey
Dimensions (W x H x D)	BC5311: 110 x 195 x 40 mm HF100: 220 x 265 x 29.3 mm
Weight	1.3 kg
Approval	CE
Accessories	None

## Readers Cotag

Type	Order No.																																						
<b>BC5516-Cotag</b>  	<b>S24246-F4702-A1</b>																																						
<b>Split-mounted hands-free loop reader kit</b>																																							
<p>The BC5516-Cotag is a loop reader kit that consists of a BC270 loop coupler and a BC5311 reader interface. It reads Siemens unique Cotag cards and tags (active only) which offer ultimate convenience and cost-efficiency. It has a reading range of up to three meters depending of the construction of the loop.</p>																																							
<p>The BC270 loop coupler allows simple wire-loop antennas to be used for applications such as access loops around doors and roadway loops for vehicle (AVI) systems. The transmit range is adjustable. It is easy to monitor TX and RX status via onboard LEDs.</p>																																							
<p>The BC5311 reader interface allows Cotag technology reading heads to integrate into non-Cotag systems. Popular data interfaces ensure easy integration with most host systems.</p>																																							
<table border="0"> <tr> <td>System compatibility</td> <td>SiPass Entro, SiPass integrated</td> </tr> <tr> <td>Interface to controller</td> <td>Clock&amp;Data or Wiegand</td> </tr> <tr> <td>Operating voltage</td> <td>10 to 35 VDC</td> </tr> <tr> <td>Current consumption</td> <td>300 mA @ 12V DC 160 mA @ 24V DC</td> </tr> <tr> <td>Tamper switch</td> <td>No</td> </tr> <tr> <td>Card technology</td> <td>Cotag</td> </tr> <tr> <td>Card compatibility</td> <td>IB911, IB928 &amp; IB970</td> </tr> <tr> <td>Card read distance</td> <td>Up to 300 cm with active card, depending on loop construction</td> </tr> <tr> <td>Indicators</td> <td>None</td> </tr> <tr> <td>Keypad</td> <td>No</td> </tr> <tr> <td>Operating temperature</td> <td>-40 to +70 °C (BC270) 0 to +50 °C (BC5311)</td> </tr> <tr> <td>Environment</td> <td>Indoor for the reader interface. Indoor or outdoor for BC270</td> </tr> <tr> <td>IP rating</td> <td>IP66 [BC270]</td> </tr> <tr> <td>Housing</td> <td>UV-resistant ABS plastic</td> </tr> <tr> <td>Colour</td> <td>Light grey</td> </tr> <tr> <td>Dimensions (W x H x D)</td> <td>BC270: 80 x 160 x 56 mm BC5311: 110 x 195 x 40 mm</td> </tr> <tr> <td>Weight</td> <td>0.9 kg</td> </tr> <tr> <td>Approval</td> <td>CE</td> </tr> <tr> <td>Accessories</td> <td>None</td> </tr> </table>	System compatibility	SiPass Entro, SiPass integrated	Interface to controller	Clock&Data or Wiegand	Operating voltage	10 to 35 VDC	Current consumption	300 mA @ 12V DC 160 mA @ 24V DC	Tamper switch	No	Card technology	Cotag	Card compatibility	IB911, IB928 & IB970	Card read distance	Up to 300 cm with active card, depending on loop construction	Indicators	None	Keypad	No	Operating temperature	-40 to +70 °C (BC270) 0 to +50 °C (BC5311)	Environment	Indoor for the reader interface. Indoor or outdoor for BC270	IP rating	IP66 [BC270]	Housing	UV-resistant ABS plastic	Colour	Light grey	Dimensions (W x H x D)	BC270: 80 x 160 x 56 mm BC5311: 110 x 195 x 40 mm	Weight	0.9 kg	Approval	CE	Accessories	None	
System compatibility	SiPass Entro, SiPass integrated																																						
Interface to controller	Clock&Data or Wiegand																																						
Operating voltage	10 to 35 VDC																																						
Current consumption	300 mA @ 12V DC 160 mA @ 24V DC																																						
Tamper switch	No																																						
Card technology	Cotag																																						
Card compatibility	IB911, IB928 & IB970																																						
Card read distance	Up to 300 cm with active card, depending on loop construction																																						
Indicators	None																																						
Keypad	No																																						
Operating temperature	-40 to +70 °C (BC270) 0 to +50 °C (BC5311)																																						
Environment	Indoor for the reader interface. Indoor or outdoor for BC270																																						
IP rating	IP66 [BC270]																																						
Housing	UV-resistant ABS plastic																																						
Colour	Light grey																																						
Dimensions (W x H x D)	BC270: 80 x 160 x 56 mm BC5311: 110 x 195 x 40 mm																																						
Weight	0.9 kg																																						
Approval	CE																																						
Accessories	None																																						



Type

Order No.

PP500-Cotag

Heavy duty card and PIN reader

S54501-F1-A2




The PP500-Cotag reads Siemens unique Cotag cards and tags (both active and passive) which offer ultimate convenience and cost-efficiency. It has a reading range of up to 12 cm with an active card and up to 3 cm with a passive card. It has a position indicator light and an illuminated keypad which makes it easy to use in dark places. It also includes a tamper switch for enhanced security.

When BC-Link is used, two of these readers can be installed to control entries and exits using only one door controller. An additional benefit of BC-Link is that it supports online status monitoring.

System compatibility	SiPass Entro, SiPass integrated
Interface to controller	BC-Link, Clock&Data or Wiegand
Operating voltage	12 to 24 VDC
Current consumption	39 mA @ 12 VDC 23 mA @ 24 VDC
Tamper switch	Yes
Card technology	Cotag
Card compatibility	IB911, IB928, IB958, IB958M, IB981 & IB968
Card read distance	Up to 12 cm with active card or 3 cm with passive card
Indicators	3 x LED (red/yellow/green) 1 x Buzzer
Keypad	Stainless steel keys 0-9, A, B
Operating temperature	-30 to +50 °C
Environment	Indoor or outdoor use
IP rating	IP54
Housing	Cast metal with stainless steel keys and security lock
Colour	Grey
Dimensions (W x H x D)	80 x 140 x 40 mm
Weight	1.35 kg
Approval	CE
Accessories	SH2 rain cover IS391 spy-proof cover BB3 flush-mounting kit

## Readers Cotag

Type	Order No.																																						
PR500-Cotag	S24246-F4706-A1																																						
	<p><b>Card reader</b></p> <p>The PR500-Cotag reads Siemens unique Cotag cards and tags (both active and passive) which offer ultimate convenience and cost-efficiency. It has a reading range of up to 32 cm with an active card and 11 cm with a passive card. The PR500-Cotag has a slim and compact design and blends in well in many environments.</p> <p>When BC-Link is used, two of these readers can be installed to control entries and exits using only one door controller. An additional benefit of BC-Link is that it supports online status monitoring.</p> <table border="0"> <tr> <td>System compatibility</td> <td>SiPass Entro, SiPass integrated</td> </tr> <tr> <td>Interface to controller</td> <td>BC-Link, Clock&amp;Data or Wiegand</td> </tr> <tr> <td>Operating voltage</td> <td>10.6 to 32 VDC</td> </tr> <tr> <td>Current consumption</td> <td>36 mA @ 12 VDC 36 mA @ 24 VDC</td> </tr> <tr> <td>Tamper switch</td> <td>No</td> </tr> <tr> <td>Card technology</td> <td>Cotag</td> </tr> <tr> <td>Card compatibility</td> <td>IB911, IB928, IB958, IB958M, IB981 &amp; IB968</td> </tr> <tr> <td>Card read distance</td> <td>Up to 32 cm with active card. Up to 11 cm with passive card.</td> </tr> <tr> <td>Indicators</td> <td>3 x LED (red/yellow/green) 1 x Buzzer</td> </tr> <tr> <td>Keypad</td> <td>No</td> </tr> <tr> <td>Operating temperature</td> <td>-30 to +50 °C</td> </tr> <tr> <td>Environment</td> <td>Indoor or outdoor use</td> </tr> <tr> <td>IP rating</td> <td>IP55</td> </tr> <tr> <td>Housing</td> <td>ABS base with clip on ABS front cover</td> </tr> <tr> <td>Colour</td> <td>White</td> </tr> <tr> <td>Dimensions (W x H x D)</td> <td>40 x 140 x 18.5 mm</td> </tr> <tr> <td>Weight</td> <td>0.11 kg</td> </tr> <tr> <td>Approval</td> <td>CE</td> </tr> <tr> <td>Accessories</td> <td>BB6 flush-mounting kit</td> </tr> </table>	System compatibility	SiPass Entro, SiPass integrated	Interface to controller	BC-Link, Clock&Data or Wiegand	Operating voltage	10.6 to 32 VDC	Current consumption	36 mA @ 12 VDC 36 mA @ 24 VDC	Tamper switch	No	Card technology	Cotag	Card compatibility	IB911, IB928, IB958, IB958M, IB981 & IB968	Card read distance	Up to 32 cm with active card. Up to 11 cm with passive card.	Indicators	3 x LED (red/yellow/green) 1 x Buzzer	Keypad	No	Operating temperature	-30 to +50 °C	Environment	Indoor or outdoor use	IP rating	IP55	Housing	ABS base with clip on ABS front cover	Colour	White	Dimensions (W x H x D)	40 x 140 x 18.5 mm	Weight	0.11 kg	Approval	CE	Accessories	BB6 flush-mounting kit
System compatibility	SiPass Entro, SiPass integrated																																						
Interface to controller	BC-Link, Clock&Data or Wiegand																																						
Operating voltage	10.6 to 32 VDC																																						
Current consumption	36 mA @ 12 VDC 36 mA @ 24 VDC																																						
Tamper switch	No																																						
Card technology	Cotag																																						
Card compatibility	IB911, IB928, IB958, IB958M, IB981 & IB968																																						
Card read distance	Up to 32 cm with active card. Up to 11 cm with passive card.																																						
Indicators	3 x LED (red/yellow/green) 1 x Buzzer																																						
Keypad	No																																						
Operating temperature	-30 to +50 °C																																						
Environment	Indoor or outdoor use																																						
IP rating	IP55																																						
Housing	ABS base with clip on ABS front cover																																						
Colour	White																																						
Dimensions (W x H x D)	40 x 140 x 18.5 mm																																						
Weight	0.11 kg																																						
Approval	CE																																						
Accessories	BB6 flush-mounting kit																																						



Type

Order No.

SP500-Cotag

Switch-plate card reader

S24246-F4704-A1



The SP500-Cotag reads Siemens unique Cotag cards and tags (both active and passive) which offer ultimate convenience and cost-efficiency. It has a reading range of up to 29 cm with an active card and 9 cm with a passive card. Its compact, square design makes it easy to mount in most single-gang back-boxes.

When BC-Link is used, two of these readers can be installed to control entries and exits using only one door controller. An additional benefit of BC-Link is that it supports online status monitoring.

System compatibility	SiPass Entro, SiPass integrated
Interface to controller	BC-Link, Clock&Data or Wiegand
Operating voltage	10.6 to 32 VDC
Current consumption	32 mA @ 12 VDC 34 mA @ 24 VDC
Tamper switch	No
Card technology	Cotag
Card compatibility	IB911, IB928, IB958, IB958M, IB981 & IB968
Card read distance	Up to 29 cm with active card. Up to 9 cm with passive card.
Indicators	3 x LED (red/yellow/green) 1 x Buzzer
Keypad	No
Operating temperature	-30 to +50 °C
Environment	Indoor or outdoor use
IP rating	IP55
Housing	ABS base houses fully encapsulated electronics, clip-on ABS front cover
Colour	White
Dimensions (W x H x D)	86 x 86 x 14 mm
Weight	0.14 kg
Approval	CE
Accessories	None

## Readers Cotag

### Type

### Order No.

#### HD500-Cotag



#### Heavy duty card reader

The HD500-Cotag reads Siemens unique Cotag cards and tags (both active and passive) which offer ultimate convenience and cost-efficiency. It has a reading range of up to 26 cm with an active card and up to 8 cm with a passive card.

Vandal-proof and fire-resistant, the HD500-Cotag is popular both in vulnerable locations and modern office environments.

When BC-Link is used, two of these readers can be installed to control entries and exits using only one door controller. An additional benefit of BC-Link is that it supports online status monitoring.

System compatibility	SiPass Entro, SiPass integrated
Interface to controller	BC-Link, Clock&Data or Wiegand
Operating voltage	10.6 to 32 VDC
Current consumption	37 mA @ 12 VDC 39 mA @ 24 VDC
Tamper switch	No
Card technology	Cotag
Card compatibility	IB911, IB928, IB958, IB958M, IB981 & IB968
Card read distance	Up to 26 cm with active card. Up to 8 cm with passive card.
Indicators	3 x LED (red/yellow/green) 1 x Buzzer
Keypad	No
Operating temperature	-30 to +50 °C
Environment	Indoor or outdoor use
IP rating	IP65
Housing	Polycarbonate case, fully encapsulated electronics, stainless steel outer frame
Colour	Black and stainless steel
Dimensions (W x H x D)	100 x 128 x 18 mm
Weight	0.24 kg
Approval	CE
Accessories	None

S24246-F4703-A1



Type

Order No.

PM500-Cotag

Panel mounted card reader

S24246-F4705-A1



The PM500-Cotag reads Siemens unique Cotag cards and tags (both active and passive) which offer ultimate convenience and cost-efficiency. The PM500-Cotag is designed to fit most remote call point enclosures. It is supplied with a custom-machined perspex front panel for increased aesthetic appeal. It has a reading range of up to 23 cm with an active card and 8 cm with a passive card.

When BC-Link is used, two of these readers can be installed to control entries and exits using only one door controller. An additional benefit of BC-Link is that it supports online status monitoring.

System compatibility	SiPass Entro, SiPass integrated
Interface to controller	BC-Link, Clock&Data or Wiegand
Operating voltage	10.6 to 32 VDC
Current consumption	33 mA @ 12V DC 35 mA @ 24V DC
Tamper switch	No
Card technology	Cotag
Card compatibility	IB911, IB928, IB958, IB958M, IB981 & IB968
Card read distance	Up to 23 cm with active card. Up to 8 cm with passive card.
Indicators	3 x LED (red/yellow/green) 1 x Buzzer
Keypad	No
Operating temperature	-30 to +50 °C
Environment	Indoor or outdoor use
IP rating	IP55
Housing	High impact polycarbonate outer casing, with encapsulated electronics
Colour	Black
Dimensions (W x H x D)	68 x 73 x 13.5 mm
Weight	0.15 kg
Approval	CE
Accessories	None

## Readers

### Smart Card 13.56 MHz

Type	Order No.
AR6181-MX	6FL7170-8BK
	<p data-bbox="392 331 687 353"><b>Multi-technology card reader</b></p> <p data-bbox="392 376 1053 454">The AR6181-MX can read a variety of different smart card variants (see details below). The smart two-part construction of this reader makes it very easy to mount. It is supplied with a surface mounting frame.</p> <p data-bbox="392 495 1053 600">System compatibility Interface to controller SiPass integrated, SIPORT RS485 monitored CerPass/UCI protocol. Clock&amp;Data or Wiegand</p> <p data-bbox="392 607 1053 656">Operating voltage 12 to 24 VDC ±15 %</p> <p data-bbox="392 663 1053 712">Current consumption 165 mA @ 12 VDC 80 mA @ 24 VDC</p> <p data-bbox="392 719 1053 741">Tamper switch No</p> <p data-bbox="392 748 1053 902">Card technology Mifare Classic 1k &amp; 4k (CSN, S/B, MAD); DESfire (CSN); Mifare DESfire EVI (CSN, File), Mifare UltraLight &amp; my-D prox (CSN, B); STM LRI512, my-C, my-D vic, I-Code SLI, Tag-IT HFI (CSN)</p> <p data-bbox="392 909 1053 958">Card compatibility ABP5100-PR ABP5100-BL</p> <p data-bbox="392 965 1053 987">Card read distance Up to 7 cm</p> <p data-bbox="392 994 1053 1043">Indicators 1 x LED (red/yellow/green) 1 x Buzzer</p> <p data-bbox="392 1050 1053 1072">Keypad No</p> <p data-bbox="392 1079 1053 1102">Operating temperature -20 to +60 °C</p> <p data-bbox="392 1108 1053 1131">Environment Indoor or outdoor use</p> <p data-bbox="392 1137 1053 1160">IP rating IP65</p> <p data-bbox="392 1167 1053 1189">Housing PC/ABS plastic</p> <p data-bbox="392 1196 1053 1218">Colour Silver (RAL9006)</p> <p data-bbox="392 1225 1053 1328">Dimensions (W x H x D) With surface mounting frame: 85.5 x 91 x 40 mm W/o surface mounting frame: 85.5 x 91 x 23 mm</p> <p data-bbox="392 1335 1053 1357">Weight 0.25 kg</p> <p data-bbox="392 1364 1053 1386">Approval CE, FCC, UL</p> <p data-bbox="392 1393 1053 1415">Accessories SH1 universal rain cover</p>



# Readers

## Smart Card 13.56 MHz



### Type

### Order No.

AR6182-MX

#### Multi-technology card and PIN reader

6FL7170-8BL




The AR6182-MX can read a variety of different smart card variants (see details below). The smart two-part construction of this reader makes it very easy to mount. It is supplied with a surface mounting frame.

System compatibility	SiPass integrated, SIPOINT
Interface to controller	RS485 monitored CerPass/UCI protocol. Clock&Data or Wiegand
Operating voltage	12 to 24 VDC ±15 %
Current consumption	165 mA @ 12V DC 80 mA @ 24V DC
Tamper switch	No
Card technology	Mifare Classic 1k & 4k (CSN, S/B, MAD); DESfire (CSN); Mifare DESfire EV1 (CSN, File), Mifare UltraLight & my-D proximity (CSN, B); STM LRI512, my-C, my-D vic, I-Code SLI, Tag-IT HFI (CSN)
Card compatibility	ABP5100-PR ABP5100-BL
Card read distance	Up to 7 cm
Indicators	1 x LED (red/yellow/green) 1 x Buzzer
Keypad	Membrane keyboard Keys 0-9,C,E > 1,000,000 operations
Operating temperature	-20 to +60 °C
Environment	Indoor or outdoor use
IP rating	IP65
Housing	PC/ABS plastic
Colour	Silver (RAL9006)
Dimensions (W x H x D)	With surface mounting frame: 85.5 x 91 x 40 mm W/o surface mounting frame: 85.5 x 91 x 23 mm
Weight	0.22 kg
Approval	CE, FCC, UL
Accessories	SH1 universal rain cover

5

## Readers

### Smart Card 13.56 MHz

Type			Order No.
AR6181-MS	<b>Card reader</b>	<b>6FL7170-8AH</b>	
	<p>The AR6181-MS can read Mifare Classic 1k and 4k cards (CSN or sector/block) and Mifare DESfire EV1 (CSN, File). It is designed to fit most standard square flush-mounting boxes. It is supplied with a surface mounting frame.</p>		
	System compatibility Interface to controller	SiPass integrated, SIPOINT RS485 monitored CerPass/UCI protocol. Clock&Data or Wiegand	
	Operating voltage	12 to 24 VDC ±15 %	
	Current consumption	64 mA @ 12V DC 34 mA @ 24V DC	
	Tamper switch	No	
	Card technology	Mifare Classic 1k & 4k (CSN, sector/block), Mifare DESfire EV1 (CSN, File)	
	Card compatibility	ABP5100-PR ABP5100-BL	
	Card read distance	Up to 4 cm	
	Indicators	3 x LED (red/yellow/green) 1 x Buzzer	
	Keypad	No	
	Operating temperature	-20 to +70 °C	
	Environment	Indoor or outdoor use	
	IP rating	IP65	
	Housing	PC/ABS plastic	
	Colour	Silver (RAL9006)	
	Dimensions (W x H x D)	With surface mounting frame: 85.5 x 91 x 40 mm W/o surface mounting frame: 85.5 x 91 x 23 mm	
	Weight	0.20 kg	
	Approval	CE	
	Accessories	SH1 universal rain cover	

# Readers

## Smart Card 13.56 MHz



### Type

### Order No.

AR6182-MS

#### Card and PIN reader

The AR6182-MS can read Mifare Classic 1k and 4k cards (CSN or sector/block) and Mifare DESfire EV1 (CSN, File). It is designed to fit most standard square flush-mounting boxes. It is supplied with a surface mounting frame.




System compatibility	SiPass integrated, SIPORT
Interface to controller	RS485 monitored CerPass/UCI protocol. Clock&Data or Wiegand
Operating voltage	12 to 24 VDC ±15 %
Current consumption	64 mA @ 12V DC 34 mA @ 24V DC
Tamper switch	No
Card technology	Mifare Classic 1k & 4k (CSN, sector/block), Mifare DESfire EV1 (CSN, File)
Card compatibility	ABP5100-PR ABP5100-BL
Card read distance	Up to 4 cm
Indicators	3 x LED (red/yellow/green) 1 x Buzzer
Keypad	Yes, > 1,000,000 operations
Operating temperature	-20 to +70 °C
Environment	Indoor or outdoor use
IP rating	IP65
Housing	PC/ABS plastic
Colour	Silver (RAL9006)
Dimensions (W x H x D)	With surface mounting frame: 85.5 x 91 x 40 mm W/o surface mounting frame: 85.5 x 91 x 23 mm
Weight	0.20 kg
Approval	CE
Accessories	SH1 universal rain cover

6FL7170-8AJ

## Readers

### Smart Card 13.56 MHz

Type			Order No.
AR6111-MX	<b>Card reader</b>	The AR6111-MX is an economical card reader that can read the card serial number of a variety of different smart card variants (see details below). The configuration of this reader can be changed with a configuration card. It is supplied with a surface mounting frame.	6FL7170-8DK
	System compatibility Interface to controller Operating voltage Tamper switch Current consumption Card technology	SiPass Entro, SiPass integrated Clock&Data or Wiegand 9 to 15 VDC No 80 mA @ 12 VDC Mifare Classic 1k & 4k, Mifare Ultra-Light, my-D proximity, my-C, my-D vicinity, I-Code SLI, Tag-IT HFI, STM LRI512 (all CSN)	
	Card compatibility	ABP5100-PR ABP5100-BL	
	Card read distance	Up to 7 cm	
	Indicators	2 x LED (red/green) 1 x Buzzer	
	Keypad	No	
	Operating temperature	-25 to +60° C	
	Environment	Indoor or outdoor use	
	IP rating	IP65	
	Housing	Synthetic ABS/PBT	
	Colour	Silver (RAL9006)	
	Dimensions (W x H x D)	76 x 120 x 17 mm	
	Weight	0.20 kg	
	Approval	CE, FCC, UL	
	Accessories	SH1 universal rain cover	

# Readers

## Smart Card 13.56 MHz



### Type

### Order No.

#### AR6201-MX



#### Enrolment reader

The AR6201-MX is designed to read and write a variety of different smart card variants (see details below). It is supplied with an external power supply and an RS232 serial interface, which enables it to be connected to a PC.

System compatibility	SiPass integrated, SIPORT
Interface to controller	RS232 interface for connection to a personal computer
Operating voltage	Power supply included
Tamper switch	No
Card technology	Mifare Classic 1k & 4k, Mifare Ultra-Light, my-D proximity, my-C, my-D vicinity, I-Code SLI, I-Code1, I-Code EPC, Tag-IT HFI, LRI512
Card compatibility	ABP5100-PR ABP5100-BL
Card read distance	Up to 7 cm
Indicators	1 x LED (red/yellow/green) 1 x Buzzer
Keypad	No
Operating temperature	-25 to +60 °C
Environment	Indoor use only
IP rating	IP22
Housing	PC/ABS plastic
Colour	Silver (RAL9006)
Dimensions (W x H x D)	85.5 x 91 x 40 mm
Weight	0.20 kg
Approval	CE, FCC
Accessories	None

6FL7170-8CK

#### ASB6201

#### ConfigCard Creation Tool

ConfigCard Creation Tool (ASB6201) is a software program that can be used to produce configuration cards to change the parameters of readers that support multiple card technologies, namely our AR6181-MX, AR6182-MX and AR6111-MX readers. Please note that producing a configuration card (also known as ConfigCard) requires both the ConfigCard Creation Tool and an AR6201-MX enrolment reader. (The AR6201-MX must be ordered separately.)

A standard Mifare card (1K or 4K) is typically used as a ConfigCard for AR6181-MX or AR6182-MX readers. A 4-byte transponder with ISO15693 block size, such as a I-Code SLI, my-d vicinity or Tag-it HF-I, is typically used as a ConfigCard for AR6111-MX readers.

The software has the following features:

- Windows-style design for simple use
- A variety of parameter combinations to meet different customer requirements
- Regular storage of data files, either in XML or CCT format
- Export data to a text file to improve understanding
- Ability to read Mifare cards with factory default keys and pre-defined keys
- Can program ISO14443A cards and ISO15693 cards

PC operating system	Windows XP, Windows 2000
Communication	COM port
Hard disk capacity	Min. 25 MB

P24246-P4400-A1

## Readers

### Proximity 125 kHz

Type	Order No.																																				
AR6181-RX	6FL7170-8AD																																				
	<p data-bbox="392 331 687 353"><b>Multi-technology card reader</b></p> <p data-bbox="392 376 1050 506">The AR6181-RX can read the unique card number of EM4102 (also known as Miro or UNIQUE 125 kHz), Siemens Prox, Hitag 1 and Hitag 2 proximity cards. It can also read the personalised ID number of Hitag 1 and Hitag 2 cards. The smart two-part construction of this reader makes it very easy to mount. It is supplied with a surface mounting frame.</p> <table data-bbox="392 544 1050 1350"> <tr> <td data-bbox="392 544 703 600">System compatibility</td> <td data-bbox="719 544 1050 566">SiPass integrated, SIPOINT</td> </tr> <tr> <td data-bbox="392 577 703 600">Interface to controller</td> <td data-bbox="719 577 1050 622">RS485 monitored CerPass/UCI protocol, Clock&amp;Data or Wiegand</td> </tr> <tr> <td data-bbox="392 633 703 656">Operating voltage</td> <td data-bbox="719 633 1050 656">12 to 24 VDC</td> </tr> <tr> <td data-bbox="392 667 703 689">Current consumption</td> <td data-bbox="719 667 1050 712">145 mA @ 12 VDC 75 mA @ 24 VDC</td> </tr> <tr> <td data-bbox="392 723 703 745">Tamper switch</td> <td data-bbox="719 723 1050 745">No</td> </tr> <tr> <td data-bbox="392 757 703 779">Card technology</td> <td data-bbox="719 757 1050 824">EM4102 (also known as Miro or UNIQUE 125 KHz), Siemens Prox, Hitag 1 and Hitag 2</td> </tr> <tr> <td data-bbox="392 835 703 857">Card compatibility</td> <td data-bbox="719 835 1050 902">ABR5100-PR ABR5100-BL ABR5100-TG</td> </tr> <tr> <td data-bbox="392 913 703 936">Card read distance</td> <td data-bbox="719 913 1050 936">7 cm (approx.)</td> </tr> <tr> <td data-bbox="392 947 703 969">Indicators</td> <td data-bbox="719 947 1050 992">1 x LED (red/yellow/green) 1 x buzzer</td> </tr> <tr> <td data-bbox="392 1003 703 1025">Keypad</td> <td data-bbox="719 1003 1050 1025">No</td> </tr> <tr> <td data-bbox="392 1037 703 1059">Operating temperature</td> <td data-bbox="719 1037 1050 1059">-25 to +70 °C</td> </tr> <tr> <td data-bbox="392 1070 703 1093">Environment</td> <td data-bbox="719 1070 1050 1093">Indoor or outdoor use</td> </tr> <tr> <td data-bbox="392 1104 703 1126">IP rating</td> <td data-bbox="719 1104 1050 1126">IP65</td> </tr> <tr> <td data-bbox="392 1137 703 1160">Housing</td> <td data-bbox="719 1137 1050 1160">PC/ABS plastic</td> </tr> <tr> <td data-bbox="392 1171 703 1193">Colour</td> <td data-bbox="719 1171 1050 1193">Silver (RAL9006)</td> </tr> <tr> <td data-bbox="392 1205 703 1227">Dimensions (W x H x D)</td> <td data-bbox="719 1205 1050 1294">With surface mounting frame: 85.5 x 91 x 40 mm W/o surface mounting frame: 85.5 x 91 x 23 mm</td> </tr> <tr> <td data-bbox="392 1305 703 1328">Weight</td> <td data-bbox="719 1305 1050 1328">0.30 kg</td> </tr> <tr> <td data-bbox="392 1339 703 1361">Approval</td> <td data-bbox="719 1339 1050 1361">CE</td> </tr> </table>	System compatibility	SiPass integrated, SIPOINT	Interface to controller	RS485 monitored CerPass/UCI protocol, Clock&Data or Wiegand	Operating voltage	12 to 24 VDC	Current consumption	145 mA @ 12 VDC 75 mA @ 24 VDC	Tamper switch	No	Card technology	EM4102 (also known as Miro or UNIQUE 125 KHz), Siemens Prox, Hitag 1 and Hitag 2	Card compatibility	ABR5100-PR ABR5100-BL ABR5100-TG	Card read distance	7 cm (approx.)	Indicators	1 x LED (red/yellow/green) 1 x buzzer	Keypad	No	Operating temperature	-25 to +70 °C	Environment	Indoor or outdoor use	IP rating	IP65	Housing	PC/ABS plastic	Colour	Silver (RAL9006)	Dimensions (W x H x D)	With surface mounting frame: 85.5 x 91 x 40 mm W/o surface mounting frame: 85.5 x 91 x 23 mm	Weight	0.30 kg	Approval	CE
System compatibility	SiPass integrated, SIPOINT																																				
Interface to controller	RS485 monitored CerPass/UCI protocol, Clock&Data or Wiegand																																				
Operating voltage	12 to 24 VDC																																				
Current consumption	145 mA @ 12 VDC 75 mA @ 24 VDC																																				
Tamper switch	No																																				
Card technology	EM4102 (also known as Miro or UNIQUE 125 KHz), Siemens Prox, Hitag 1 and Hitag 2																																				
Card compatibility	ABR5100-PR ABR5100-BL ABR5100-TG																																				
Card read distance	7 cm (approx.)																																				
Indicators	1 x LED (red/yellow/green) 1 x buzzer																																				
Keypad	No																																				
Operating temperature	-25 to +70 °C																																				
Environment	Indoor or outdoor use																																				
IP rating	IP65																																				
Housing	PC/ABS plastic																																				
Colour	Silver (RAL9006)																																				
Dimensions (W x H x D)	With surface mounting frame: 85.5 x 91 x 40 mm W/o surface mounting frame: 85.5 x 91 x 23 mm																																				
Weight	0.30 kg																																				
Approval	CE																																				

# Readers

## Proximity 125 kHz



### Type

### Order No.

AR6182-RX

#### Multi-technology card and PIN reader

6FL7170-8AE




The AR6182-RX can read the unique card number of EM4102 (also known as Miro or UNIQUE 125 kHz), Siemens Prox, Hitag 1 and Hitag 2 proximity cards. It can also read the personalised ID number of Hitag 1 and Hitag 2 cards. The smart two-part construction of this reader makes it very easy to mount. It is supplied with a surface mounting frame.

System compatibility	SiPass integrated, SIPOINT
Interface to controller	RS485 monitored CerPass/UCL protocol, Clock&Data or Wiegand
Operating voltage	12 to 24 VDC
Current consumption	145 mA @ 12V DC 75 mA @ 24V DC
Tamper switch	No
Card technology	EM4102 (also known as Miro or UNIQUE 125 KHz), Siemens Prox, Hitag 1 and Hitag 2
Card compatibility	ABR5100-PR ABR5100-BL ABR5100-TG
Card read distance	7 cm (approx.)
Indicators	1 x LED (red/yellow/green) 1 x buzzer
Keypad	Membrane keyboard Keys 0-9,C,E > 1,000,000 operations
Operating temperature	-25 to +70 °C
Environment	Indoor or outdoor use
IP rating	IP65
Housing	PC/ABS plastic
Colour	Silver (RAL9006)
Dimensions (W x H x D)	With surface mounting frame: 85.5 x 91 x 40 mm W/o surface mounting frame: 85.5 x 91 x 23 mm
Weight	0.30 kg
Approval	CE
Accessories	SH1 universal rain cover

5

## Readers

### Proximity 125 kHz

Type	Order No.																																						
ARS6311-RX	S24246-Z3900-A1																																						
	<p data-bbox="392 331 512 353"><b>Card reader</b></p> <p data-bbox="392 376 1050 450">The ARS6311-RX is a compact and economical reader designed for use with all SiPass systems. In combination with the AC6311 I/O board, it can also be used in standalone mode.</p> <table data-bbox="392 495 1050 1193"> <tr> <td data-bbox="392 495 703 546">System compatibility</td> <td data-bbox="719 495 1050 568">SiPass Entro, SiPass integrated Clock&amp;Data and Wiegand (26/34/42 bit)</td> </tr> <tr> <td data-bbox="392 580 564 602">Interface to controller</td> <td data-bbox="719 580 1050 631">10 to 16 VDC</td> </tr> <tr> <td data-bbox="392 642 596 665">Operating voltage</td> <td data-bbox="719 642 884 665">32 mA @ 12V DC</td> </tr> <tr> <td data-bbox="392 676 596 698">Current consumption</td> <td data-bbox="719 676 756 698">Yes</td> </tr> <tr> <td data-bbox="392 710 533 732">Tamper switch</td> <td data-bbox="719 710 1050 784">EM4102 (also known as Miro or UNIQUE 125 KHz), Siemens Prox</td> </tr> <tr> <td data-bbox="392 795 549 817">Card technology</td> <td data-bbox="719 795 1050 891">ABR5100-PR ABR5100-BL ABR5100-TG</td> </tr> <tr> <td data-bbox="392 902 564 925">Card compatibility</td> <td data-bbox="719 902 868 925">12 cm (approx.)</td> </tr> <tr> <td data-bbox="392 936 564 958">Card read distance</td> <td data-bbox="719 936 963 981">3 x LED (red/yellow/green) 1 x Buzzer</td> </tr> <tr> <td data-bbox="392 992 485 1014">Indicators</td> <td data-bbox="719 992 756 1014">No</td> </tr> <tr> <td data-bbox="392 1025 469 1048">Keypad</td> <td data-bbox="719 1025 852 1048">-25 to +60 °C</td> </tr> <tr> <td data-bbox="392 1059 612 1081">Operating temperature</td> <td data-bbox="719 1059 932 1081">Indoor or outdoor use</td> </tr> <tr> <td data-bbox="392 1093 517 1115">Environment</td> <td data-bbox="719 1093 772 1115">IP65</td> </tr> <tr> <td data-bbox="392 1126 469 1149">IP rating</td> <td data-bbox="719 1126 820 1149">ABS plastic</td> </tr> <tr> <td data-bbox="392 1160 469 1182">Housing</td> <td data-bbox="719 1160 868 1182">Silver (RAL9006)</td> </tr> <tr> <td data-bbox="392 1193 453 1216">Colour</td> <td data-bbox="719 1193 884 1216">40 x 100 x 25 mm</td> </tr> <tr> <td data-bbox="392 1227 612 1249">Dimensions (W x H x D)</td> <td data-bbox="719 1227 788 1249">0.30 kg</td> </tr> <tr> <td data-bbox="392 1261 469 1283">Weight</td> <td data-bbox="719 1261 756 1283">CE</td> </tr> <tr> <td data-bbox="392 1294 485 1317">Approval</td> <td data-bbox="719 1294 948 1317">SH1 universal rain cover</td> </tr> <tr> <td data-bbox="392 1328 501 1350">Accessories</td> <td></td> </tr> </table>	System compatibility	SiPass Entro, SiPass integrated Clock&Data and Wiegand (26/34/42 bit)	Interface to controller	10 to 16 VDC	Operating voltage	32 mA @ 12V DC	Current consumption	Yes	Tamper switch	EM4102 (also known as Miro or UNIQUE 125 KHz), Siemens Prox	Card technology	ABR5100-PR ABR5100-BL ABR5100-TG	Card compatibility	12 cm (approx.)	Card read distance	3 x LED (red/yellow/green) 1 x Buzzer	Indicators	No	Keypad	-25 to +60 °C	Operating temperature	Indoor or outdoor use	Environment	IP65	IP rating	ABS plastic	Housing	Silver (RAL9006)	Colour	40 x 100 x 25 mm	Dimensions (W x H x D)	0.30 kg	Weight	CE	Approval	SH1 universal rain cover	Accessories	
System compatibility	SiPass Entro, SiPass integrated Clock&Data and Wiegand (26/34/42 bit)																																						
Interface to controller	10 to 16 VDC																																						
Operating voltage	32 mA @ 12V DC																																						
Current consumption	Yes																																						
Tamper switch	EM4102 (also known as Miro or UNIQUE 125 KHz), Siemens Prox																																						
Card technology	ABR5100-PR ABR5100-BL ABR5100-TG																																						
Card compatibility	12 cm (approx.)																																						
Card read distance	3 x LED (red/yellow/green) 1 x Buzzer																																						
Indicators	No																																						
Keypad	-25 to +60 °C																																						
Operating temperature	Indoor or outdoor use																																						
Environment	IP65																																						
IP rating	ABS plastic																																						
Housing	Silver (RAL9006)																																						
Colour	40 x 100 x 25 mm																																						
Dimensions (W x H x D)	0.30 kg																																						
Weight	CE																																						
Approval	SH1 universal rain cover																																						
Accessories																																							



# Readers

## Proximity 125 kHz



### Type

### Order No.

AR6331-CP

#### Card reader

The AR6331-CP reads Siemens Prox card technology. The smart two-part construction of this reader makes it very easy to mount. It includes a tamper switch for enhanced security.



System compatibility	SiPass integrated, SIPORT
Interface to controller	RS485 monitored CerPass protocol
Operating voltage	12 VDC ±20 %
Current consumption	35 mA @ 12V DC
Tamper switch	Yes
Card technology	Siemens Prox
Card compatibility	ABR5100-PR ABR5100-BL ABR5100-TG
Card read distance	7 cm (approx.)
Indicators	3 x LED (red/yellow/green) 1 x Buzzer
Keypad	No
Operating temperature	-10 to +55 °C
Environment	Indoor or outdoor use
IP rating	IP65
Housing	PC/ABS plastic
Colour	Silver (RAL9006)
Dimensions (W x H x D)	48 x 147 x 30 mm
Weight	0.20 kg
Approval	CE
Accessories	SH1 universal rain cover

6FL7171-8AD

## Readers

### Proximity 125 kHz

Type	Order No.																																						
AR6332-CP	6FL7171-8AE																																						
	<p data-bbox="392 331 593 353"><b>Card and PIN reader</b></p> <p data-bbox="392 376 1050 452">The AR6332-CP reads Siemens Prox card technology. The smart two-part construction of this reader makes it very easy to mount. It includes a tamper switch for enhanced security.</p> <table data-bbox="392 492 1050 1196"> <tr> <td data-bbox="392 492 702 515">System compatibility</td> <td data-bbox="718 492 1050 515">SiPass integrated, SIPORT</td> </tr> <tr> <td data-bbox="392 519 702 542">Interface to controller</td> <td data-bbox="718 519 1050 542">RS485 monitored CerPass protocol</td> </tr> <tr> <td data-bbox="392 546 702 568">Operating voltage</td> <td data-bbox="718 546 1050 600">12 VDC ±20 %</td> </tr> <tr> <td data-bbox="392 604 702 627">Current consumption</td> <td data-bbox="718 604 1050 627">35 mA @ 12V DC</td> </tr> <tr> <td data-bbox="392 631 702 654">Tamper switch</td> <td data-bbox="718 631 1050 654">Yes</td> </tr> <tr> <td data-bbox="392 658 702 680">Card technology</td> <td data-bbox="718 658 1050 680">Siemens Prox</td> </tr> <tr> <td data-bbox="392 685 702 707">Card compatibility</td> <td data-bbox="718 685 1050 775">ABR5100-PR ABR5100-BL ABR5100-TG</td> </tr> <tr> <td data-bbox="392 779 702 801">Card read distance</td> <td data-bbox="718 779 1050 801">7 cm (approx.)</td> </tr> <tr> <td data-bbox="392 806 702 828">Indicators</td> <td data-bbox="718 806 1050 860">3 x LED (red/yellow/green) 1 x Buzzer</td> </tr> <tr> <td data-bbox="392 864 702 887">Keypad</td> <td data-bbox="718 864 1050 918">Membrane keypad Keys 0-9,C,E</td> </tr> <tr> <td data-bbox="392 922 702 945">Operating temperature</td> <td data-bbox="718 922 1050 945">-10 to +55 °C</td> </tr> <tr> <td data-bbox="392 949 702 972">Environment</td> <td data-bbox="718 949 1050 972">Indoor or outdoor use</td> </tr> <tr> <td data-bbox="392 976 702 999">IP rating</td> <td data-bbox="718 976 1050 999">IP65</td> </tr> <tr> <td data-bbox="392 1003 702 1025">Housing</td> <td data-bbox="718 1003 1050 1025">PC/ABS plastic</td> </tr> <tr> <td data-bbox="392 1030 702 1052">Colour</td> <td data-bbox="718 1030 1050 1052">Silver (RAL9006)</td> </tr> <tr> <td data-bbox="392 1057 702 1079">Dimensions (W x H x D)</td> <td data-bbox="718 1057 1050 1079">48 x 147 x 30 mm</td> </tr> <tr> <td data-bbox="392 1084 702 1106">Weight</td> <td data-bbox="718 1084 1050 1106">0.20 kg</td> </tr> <tr> <td data-bbox="392 1111 702 1133">Approval</td> <td data-bbox="718 1111 1050 1133">CE</td> </tr> <tr> <td data-bbox="392 1137 702 1160">Accessories</td> <td data-bbox="718 1137 1050 1160">SH1 universal rain cover</td> </tr> </table>	System compatibility	SiPass integrated, SIPORT	Interface to controller	RS485 monitored CerPass protocol	Operating voltage	12 VDC ±20 %	Current consumption	35 mA @ 12V DC	Tamper switch	Yes	Card technology	Siemens Prox	Card compatibility	ABR5100-PR ABR5100-BL ABR5100-TG	Card read distance	7 cm (approx.)	Indicators	3 x LED (red/yellow/green) 1 x Buzzer	Keypad	Membrane keypad Keys 0-9,C,E	Operating temperature	-10 to +55 °C	Environment	Indoor or outdoor use	IP rating	IP65	Housing	PC/ABS plastic	Colour	Silver (RAL9006)	Dimensions (W x H x D)	48 x 147 x 30 mm	Weight	0.20 kg	Approval	CE	Accessories	SH1 universal rain cover
System compatibility	SiPass integrated, SIPORT																																						
Interface to controller	RS485 monitored CerPass protocol																																						
Operating voltage	12 VDC ±20 %																																						
Current consumption	35 mA @ 12V DC																																						
Tamper switch	Yes																																						
Card technology	Siemens Prox																																						
Card compatibility	ABR5100-PR ABR5100-BL ABR5100-TG																																						
Card read distance	7 cm (approx.)																																						
Indicators	3 x LED (red/yellow/green) 1 x Buzzer																																						
Keypad	Membrane keypad Keys 0-9,C,E																																						
Operating temperature	-10 to +55 °C																																						
Environment	Indoor or outdoor use																																						
IP rating	IP65																																						
Housing	PC/ABS plastic																																						
Colour	Silver (RAL9006)																																						
Dimensions (W x H x D)	48 x 147 x 30 mm																																						
Weight	0.20 kg																																						
Approval	CE																																						
Accessories	SH1 universal rain cover																																						

## Readers Proximity 125 kHz



### Type

### Order No.

PP500-EM

#### Heavy-duty card and PIN reader

The PP500-EM reads EM4102 cards (also known as Miro or UNIQUE 125 kHz). It has a position indicator light and an illuminated keypad which makes it easy to use in dark places. It also includes a tamper switch for enhanced security.

When BC-Link is used, two of these readers can be installed to control entries and exits using only one door controller. An additional benefit of BC-Link is that it supports online status monitoring.




System compatibility	SiPass Entro, SiPass integrated
Interface to controller	BC-Link, Clock&Data or Wiegand
Operating voltage	12 to 24 VDC
Current consumption	30 mA @ 12 VDC 17 mA @ 24 VDC
Tamper switch	Yes
Card technology	EM4102 (also known as Miro or UNIQUE 125 KHz)
Card compatibility	IB41-EM, IB42-EM, IB44-EM, IB45-EM
Card read distance	Up to 5 cm
Indicators	3 x LED (red/yellow/green) 1 x Buzzer
Keypad	Stainless steel keys 0-9, A, B
Operating temperature	-30 to +50 °C
Environment	Indoor or outdoor use
IP rating	IP54
Housing	Cast metal with stainless steel keys and security lock
Colour	Grey
Dimensions (W x H x D)	80 x 140 x 40 mm
Weight	1.35 kg
Approval	CE
Accessories	SH2 rain cover IS391 spy-proof cover BB3 flush-mounting kit

S54501-F1-A1

## Readers

### Proximity 125 kHz

Type			Order No.
HD500-EM	<b>Heavy-duty card reader</b>	<b>S24246-F3901-A1</b>	
	<p>The HD500-EM reads EM4102 cards (also known as Miro or UNIQUE 125 kHz).</p>		
	<p>Vandal-proof and fire-resistant, it is popular both in vulnerable locations and modern office environments.</p>		
	<p>When BC-Link is used, two of these readers can be installed to control entries and exits using only one door controller. An additional benefit of BC-Link is that it supports online status monitoring.</p>		
	<p>System compatibility Interface to controller Operating voltage Current consumption</p>	<p>SiPass Entro, SiPass integrated BC-Link, Clock&amp;Data or Wiegand 10.6 to 32 VDC 20 mA @ 12V DC 22 mA @ 24V DC</p>	
	<p>Tamper switch</p>	<p>No</p>	
	<p>Card technology</p>	<p>EM4102 (also known as Miro or UNIQUE 125 KHz)</p>	
	<p>Card compatibility</p>	<p>IB41-EM, IB42-EM, IB44-EM, IB45-EM</p>	
	<p>Card read distance</p>	<p>Up to 6 cm</p>	
	<p>Indicators</p>	<p>3 x LED (red/yellow/green) 1 x Buzzer</p>	
	<p>Keypad</p>	<p>No</p>	
	<p>Operating temperature</p>	<p>-30 to +50 °C</p>	
	<p>Environment</p>	<p>Indoor or outdoor use</p>	
	<p>IP rating</p>	<p>IP65</p>	
	<p>Housing</p>	<p>Polycarbonate case, fully encapsulated electronics, stainless steel outer frame</p>	
	<p>Colour</p>	<p>Black and stainless steel</p>	
	<p>Dimensions (W x H x D)</p>	<p>100 x 128 x 18 mm</p>	
	<p>Weight</p>	<p>0.24 kg</p>	
	<p>Approval</p>	<p>CE</p>	
	<p>Accessories</p>	<p>None</p>	

# Readers

## Proximity 125 kHz



### Type

### Order No.

PR500-EM

#### Card reader

The PR500-EM reads EM4102 cards (also known as Miro or UNIQUE 125 kHz). It has slim and compact design and blends in well in many environments.

When BC-Link is used, two of these readers can be installed to control entries and exits using only one door controller. An additional benefit of BC-Link is that it supports online status monitoring.




System compatibility	SiPass Entro, SiPass integrated
Interface to controller	BC-Link, Clock&Data or Wiegand
Operating voltage	10.6 to 32 VDC
Current consumption	22 mA @ 12V DC 25 mA @ 24V DC
Tamper switch	No
Card technology	EM4102 (also known as Miro or UNIQUE 125 KHz)
Card compatibility	IB41-EM, IB42-EM, IB44-EM, IB45-EM
Card read distance	Up to 10 cm
Indicators	3 x LED (red/yellow/green) 1 x Buzzer
Keypad	No
Operating temperature	-30 to +50 °C
Environment	Indoor or outdoor use
IP rating	IP55
Housing	ABS base with clip on ABS front cover
Colour	White
Dimensions (W x H x D)	40 x 140 x 18.5 mm
Weight	0.11 kg
Approval	CE
Accessories	BB6 flush-mounting kit

S24246-F3913-A1

5

## Readers

### Proximity 125 kHz

Type	Order No.																																						
<p><b>SP500-EM</b></p> 	<p><b>S24246-F3902-A1</b></p>																																						
<p><b>Switch-plate card reader</b></p>																																							
<p>The SP500-EM reads EM4102 cards (also known as Miro or UNIQUE 125 kHz). Its compact, square design makes it easy to mount in most single-gang back-boxes.</p>																																							
<p>When BC-Link is used, two of these readers can be installed to control entries and exits using only one door controller. An additional benefit of BC-Link is that it supports online status monitoring.</p>																																							
<table border="0"> <tr> <td>System compatibility</td> <td>SiPass Entro, SiPass integrated</td> </tr> <tr> <td>Interface to controller</td> <td>BC-Link, Clock&amp;Data or Wiegand</td> </tr> <tr> <td>Operating voltage</td> <td>10.6 to 32 VDC</td> </tr> <tr> <td>Current consumption</td> <td>21 mA @ 12V DC 24 mA @ 24V DC</td> </tr> <tr> <td>Tamper switch</td> <td>No</td> </tr> <tr> <td>Card technology</td> <td>EM4102 (also known as Miro or UNIQUE 125 KHz)</td> </tr> <tr> <td>Card compatibility</td> <td>IB41-EM, IB42-EM, IB44-EM, IB45-EM</td> </tr> <tr> <td>Card read distance</td> <td>Up to 10 cm</td> </tr> <tr> <td>Indicators</td> <td>3 x LED (red/yellow/green) 1 x Buzzer</td> </tr> <tr> <td>Keypad</td> <td>No</td> </tr> <tr> <td>Operating temperature</td> <td>-30 to +50 °C</td> </tr> <tr> <td>Environment</td> <td>Indoor or outdoor use</td> </tr> <tr> <td>IP rating</td> <td>IP55</td> </tr> <tr> <td>Housing</td> <td>ABS base with fully encapsulated electronics, clip-on ABS front cover</td> </tr> <tr> <td>Colour</td> <td>White</td> </tr> <tr> <td>Dimensions (W x H x D)</td> <td>86 x 86 x 14 mm</td> </tr> <tr> <td>Weight</td> <td>0.14 kg</td> </tr> <tr> <td>Approval</td> <td>CE</td> </tr> <tr> <td>Accessories</td> <td>None</td> </tr> </table>	System compatibility	SiPass Entro, SiPass integrated	Interface to controller	BC-Link, Clock&Data or Wiegand	Operating voltage	10.6 to 32 VDC	Current consumption	21 mA @ 12V DC 24 mA @ 24V DC	Tamper switch	No	Card technology	EM4102 (also known as Miro or UNIQUE 125 KHz)	Card compatibility	IB41-EM, IB42-EM, IB44-EM, IB45-EM	Card read distance	Up to 10 cm	Indicators	3 x LED (red/yellow/green) 1 x Buzzer	Keypad	No	Operating temperature	-30 to +50 °C	Environment	Indoor or outdoor use	IP rating	IP55	Housing	ABS base with fully encapsulated electronics, clip-on ABS front cover	Colour	White	Dimensions (W x H x D)	86 x 86 x 14 mm	Weight	0.14 kg	Approval	CE	Accessories	None	
System compatibility	SiPass Entro, SiPass integrated																																						
Interface to controller	BC-Link, Clock&Data or Wiegand																																						
Operating voltage	10.6 to 32 VDC																																						
Current consumption	21 mA @ 12V DC 24 mA @ 24V DC																																						
Tamper switch	No																																						
Card technology	EM4102 (also known as Miro or UNIQUE 125 KHz)																																						
Card compatibility	IB41-EM, IB42-EM, IB44-EM, IB45-EM																																						
Card read distance	Up to 10 cm																																						
Indicators	3 x LED (red/yellow/green) 1 x Buzzer																																						
Keypad	No																																						
Operating temperature	-30 to +50 °C																																						
Environment	Indoor or outdoor use																																						
IP rating	IP55																																						
Housing	ABS base with fully encapsulated electronics, clip-on ABS front cover																																						
Colour	White																																						
Dimensions (W x H x D)	86 x 86 x 14 mm																																						
Weight	0.14 kg																																						
Approval	CE																																						
Accessories	None																																						

# Readers

## Proximity 125 kHz



### Type

### Order No.

PM500-EM

#### Panel-mounted card reader

The PM500-EM reads EM4102 cards (also known as Miro or UNIQUE 125 kHz). It is designed to fit most remote call point enclosures. It is supplied with a custom-machined perspex front panel for increased aesthetic appeal.



When BC-Link is used, two of these readers can be installed to control entries and exits using only one door controller. An additional benefit of BC-Link is that it supports online status monitoring.

System compatibility	SiPass Entro, SiPass integrated
Interface to controller	BC-Link, Clock&Data or Wiegand
Operating voltage	10.6 to 32 VDC
Current consumption	20 mA @ 12V DC 24 mA @ 24V DC
Tamper switch	No
Card technology	EM4102 (also known as Miro or UNIQUE 125 KHz)
Card compatibility	IB41-EM, IB42-EM, IB44-EM, IB45-EM
Card read distance	Up to 5 cm
Indicators	3 x LED (red/yellow/green) 1 x Buzzer
Keypad	No
Operating temperature	-30 to +50 °C
Environment	Indoor or outdoor use
IP rating	IP55
Housing	High impact polycarbonate outer casing, with encapsulated electronics
Colour	Black
Dimensions (W x H x D)	68 x 73 x 13.5 mm
Weight	0.15 kg
Approval	CE
Accessories	None

S24246-F3903-A1

5

## Readers

### Magnetic Stripe

Type	Order No.																																				
BC43	S24246-F4101-A1																																				
	<p><b>Card and PIN reader</b></p> <p>BC43 is a card and PIN reader for SiPass Entro. Two units can be installed to control entries and exits using only one door controller. It has an illuminated keypad which makes it easy to use in dark places.</p> <table border="0"> <tr> <td>System compatibility</td> <td>SiPass Entro</td> </tr> <tr> <td>Interface to controller</td> <td>BC-Link</td> </tr> <tr> <td>Operating voltage</td> <td>12 to 24 VDC</td> </tr> <tr> <td>Current consumption</td> <td>30 mA @ 12 VDC 44 mA @ 24 VDC</td> </tr> <tr> <td>Tamper switch</td> <td>Yes</td> </tr> <tr> <td>Card technology</td> <td>Magstripe (track 2)</td> </tr> <tr> <td>Card compatibility</td> <td>IB1</td> </tr> <tr> <td>Indicators</td> <td>3 x LED (red/yellow/green) 1 x Buzzer</td> </tr> <tr> <td>Keypad</td> <td>Stainless steel keys 0-9, A, B</td> </tr> <tr> <td>Operating temperature</td> <td>-35 to +50 °C</td> </tr> <tr> <td>Environment</td> <td>Indoor or outdoor use</td> </tr> <tr> <td>IP rating</td> <td>IP54</td> </tr> <tr> <td>Housing</td> <td>Cast metal with stainless steel keys and security lock</td> </tr> <tr> <td>Colour</td> <td>Grey</td> </tr> <tr> <td>Dimensions (W x H x D)</td> <td>110 x 160 x 47 mm</td> </tr> <tr> <td>Weight</td> <td>1.20 kg</td> </tr> <tr> <td>Approval</td> <td>CE</td> </tr> <tr> <td>Accessories</td> <td>SH4 rain cover BB4 flush-mounting kit</td> </tr> </table>	System compatibility	SiPass Entro	Interface to controller	BC-Link	Operating voltage	12 to 24 VDC	Current consumption	30 mA @ 12 VDC 44 mA @ 24 VDC	Tamper switch	Yes	Card technology	Magstripe (track 2)	Card compatibility	IB1	Indicators	3 x LED (red/yellow/green) 1 x Buzzer	Keypad	Stainless steel keys 0-9, A, B	Operating temperature	-35 to +50 °C	Environment	Indoor or outdoor use	IP rating	IP54	Housing	Cast metal with stainless steel keys and security lock	Colour	Grey	Dimensions (W x H x D)	110 x 160 x 47 mm	Weight	1.20 kg	Approval	CE	Accessories	SH4 rain cover BB4 flush-mounting kit
System compatibility	SiPass Entro																																				
Interface to controller	BC-Link																																				
Operating voltage	12 to 24 VDC																																				
Current consumption	30 mA @ 12 VDC 44 mA @ 24 VDC																																				
Tamper switch	Yes																																				
Card technology	Magstripe (track 2)																																				
Card compatibility	IB1																																				
Indicators	3 x LED (red/yellow/green) 1 x Buzzer																																				
Keypad	Stainless steel keys 0-9, A, B																																				
Operating temperature	-35 to +50 °C																																				
Environment	Indoor or outdoor use																																				
IP rating	IP54																																				
Housing	Cast metal with stainless steel keys and security lock																																				
Colour	Grey																																				
Dimensions (W x H x D)	110 x 160 x 47 mm																																				
Weight	1.20 kg																																				
Approval	CE																																				
Accessories	SH4 rain cover BB4 flush-mounting kit																																				





Type

Order No.

M43

**PIN only reader**

In a SiPass Entro system, the M43 is used primarily in two situations: when you only require the group code level in the system, or when you want to add PIN code functionality to a door that already has a card-only reader installed.



System compatibility	SiPass Entro
Interface to controller	BC-Link
Operating voltage	12 to 24 VDC, powered from door controller
Current consumption	27 mA @ 12 VDC 39 mA @ 24 VDC
Inputs	Tamper switch for internal alarm
Tamper switch	Yes
Indicators	3 x LED (red/yellow/green) 1 x Buzzer
Keypad	Stainless steel keys 0-9, A, B
Operating temperature	-35 to +50 °C
Environment	Indoor or outdoor use
IP rating	IP54
Housing	Cast metal with stainless steel keys and security lock
Colour	Grey
Dimensions (W x H x D)	80 x 140 x 40 mm
Weight	0.70 kg
Approval	CE
Accessories	SH2 rain cover IS391 spy-proof cover BB3 flush-mounting kit

S24246-F8400-A1

Use Cotag active cards and tags for a truly hands-free access control environment

**ACHTUNG**  
ESD (EGB)  
gesicherter Bereich



# SiPass cards and tags



## Hands-free, proximity or multi-purpose? Take your pick.




Siemens recommends Cotag, smart card or standard proximity (125 kHz) technology for new access control installations. We can also provide magnetic stripe cards for use in existing magnetic stripe systems.

Cotag is a very convenient and user-friendly card technology that is unique on the market. When Cotag technology is used, it is possible to have both proximity and hands-free card reading in the same system. All Cotag readers can read both active (long-range) and passive (proximity) Cotag cards and tags, and both types of cards and tags can be mixed in the same system to provide ultimate convenience and cost-efficiency. This is particularly useful in cases where some cardholders are disabled or where hands are often occupied, such as in a hospital or a warehouse. Cotag is more secure than standard 125 kHz technology because the content on the card is protected and there is no equipment available outside Siemens to copy or tamper with the cards.

Smart cards offer a high level of security and provide the advantage of being multi-purpose. They function as proximity access cards, but since they can store much more information they can also be used as cash cards at company restaurants or vending machines, for example. It is also possible to store biometric data such as fingerprint templates.

The main advantage of using standard (125 kHz) proximity cards and tags – as opposed to magnetic stripe cards – is that they only need to be held near the reader in order to be read, rather than being swiped. This means less wear and tear on cards and more convenience for system users.

## Cards and Tags Cotag

Type	Order No.
<p><b>IB928</b></p>  <p><b>Active Cotag clamshell card</b></p> <p>The IB928 is a factory-encoded active card that includes a lithium battery which enables it to provide hands-free functionality when it is used together with Cotag hands-free readers. For example, the combination of the IB928 card and the HF500-Cotag reader results in a reading range of approximately 102 cm. The reading range when the IB928 is used in combination with Cotag proximity readers varies from approximately 12 to 32 cm. IB928 cards are particularly useful in environments where some cardholders are disabled or often have their hands full (i.e. a hospital or warehouse).</p> <p>One of the major advantages of Cotag technology is that active and passive cards can be mixed in the same system to provide ultimate convenience and cost-efficiency.</p> <p>Note: The card number is printed on front of the card.</p> <p>Quantity in order: 1</p> <p>Dimensions (W x H x D)                      54 x 86 x 3 mm</p>	S24246-D5203-A1
<p><b>IB911</b></p>  <p><b>Active Cotag keyring tag</b></p> <p>The IB911 is a factory-encoded active tag that includes a lithium battery which enables it to provide hands-free functionality when it is used together with Cotag hands-free readers. For example, the combination of the IB911 tag and the HF500-Cotag reader results in a reading range of approximately 85 cm. The reading range when the IB911 is used in combination with Cotag proximity readers varies from approximately 9 to 25 cm. IB911 tags are particularly useful in environments where some cardholders are disabled or often have their hands full (i.e. a hospital or warehouse).</p> <p>One of the major advantages of Cotag technology is that active and passive cards can be mixed in the same system to provide ultimate convenience and cost-efficiency.</p> <p>Note: The card number is printed on the back of the tag.</p> <p>Quantity in order: 1</p> <p>Dimensions (W x H x D)                      31.24 x 49.89 x 9.7 mm</p>	S24246-D5204-A1
<p><b>IB970</b></p>  <p><b>Active Cotag vehicle tag</b></p> <p>The IB970 is a factory-encoded active tag that includes a lithium battery which enables it to be read by the BC5516-Cotag loop reader from distances of up to three meters (depending on loop construction). It is designed to be attached to the underside of motor vehicles, but it is also frequently mounted under wheelchairs in hospitals and care facilities. Please keep in mind that it is not recommended to use the IB970 with any readers other than the BC5516-Cotag loop reader.</p> <p>Note: The card number is printed on the back of the tag.</p> <p>Quantity in order: 1</p> <p>Dimensions (W x H x D)                      100.45 x 51.67 x 27.02 mm</p>	S24246-D5200-A1



Type

Order No.

IB968

**Passive Cotag clamshell card**

S54501-S10-A1



The IB968 is a factory-encoded passive card that does not include a battery. It can be used in combination with any Cotag reader. When it is used with a Cotag hands-free reader, the reading range is approximately 34 cm. With Cotag proximity readers, the reading range with the IB968 varies between 3 and 11 cm.

One of the major advantages of Cotag technology is that active and passive cards can be mixed in the same system to provide ultimate convenience and cost-efficiency.

Note: The card number is printed on the back of the card.

Quantity in order: 10

Dimensions (W x H x D) 54 x 86 x 1.6 mm

IB958

**Passive Cotag card without magnetic stripe**

S54501-S74-A1



The IB958 is a factory-encoded ISO laminated passive card that does not include a battery. It is ideal for photo ID applications as it can be custom-printed on both sides. When it is used with a Cotag hands-free reader, the reading range is approximately 33 cm. With Cotag proximity readers, the reading range with the IB958M varies between 3 and 10 cm.

One of the major advantages of Cotag technology is that active and passive cards can be mixed in the same system to provide ultimate convenience and cost-efficiency.

Note: The card number is printed on the back of the card.

Quantity in order: 10

Dimensions (W x H x D) 54 x 86 x 0.76 mm

IB958M

**Passive Cotag card with magnetic stripe**

S54501-S11-A1



The IB958M is a factory-encoded ISO laminated passive card that does not include a battery. It is ideal for photo ID applications as it can be custom-printed. When it is used with a Cotag hands-free reader, the reading range is approximately 33 cm. With Cotag proximity readers, the reading range with the IB958M varies between 3 and 10 cm.


One of the major advantages of Cotag technology is that active and passive cards can be mixed in the same system to provide ultimate convenience and cost-efficiency.

Note: The card number is printed on the back of the card. This card also includes a magnetic stripe.

Quantity in order: 10

Dimensions (W x H x D) 54 x 86 x 0.76 mm

## Cards and Tags Cotag

Type	Order No.
IB981	S54501-N7-A1
	<p><b>Passive Cotag keyring tag</b></p> <p>The IB981 is a factory-encoded passive tag that does not include a battery. It can be used in combination with any Cotag reader. When it is used with a Cotag hands-free reader, the reading range is approximately 29 cm. With Cotag proximity readers, the reading range with the IB981 varies between 2 and 9 cm.</p> <p>One of the major advantages of Cotag technology is that active and passive cards can be mixed in the same system to provide ultimate convenience and cost-efficiency.</p> <p>Note: The card number is printed on the back of the card.</p> <p>Quantity in order: 10</p> <p>Dimensions (W x H x D)                      40 x 49 x 4.5 mm</p>




# Cards and Tags

## Smart Card 13.56 MHz



Type	Order No.
<p><b>ABP5100-PR</b></p> <p><b>Pre-printed Mifare cards</b></p> <p>This is a set of pre-printed Mifare Classic 1k ISO cards. They are suitable for use with all SiPass Smart Card readers.</p> <p>Quantity in order: 10</p> <p>Dimensions (W x H x D)                      54 x 86 x 0.76 mm</p> 	<p><b>6FL7820-8KB10</b></p>
<p><b>ABP5100-BL</b></p> <p><b>Printable Mifare cards</b></p> <p>This is a set of blank, printable Mifare Classic 1k ISO cards. They are suitable for use with all SiPass Smart Card readers.</p> <p>Quantity in order: 10</p> <p>Dimensions (W x H x D)                      54 x 86 x 0.76 mm</p> 	<p><b>6FL7820-8KB20</b></p>




## Cards and Tags Proximity 125 kHz

Type	Order No.
<p><b>ABR5100-PR</b></p>  <p><b>Pre-printed Siemens Prox cards</b></p> <p>This is a set of pre-printed ISO cards that are compliant with Siemens Prox technology. They can be used with the readers ARS6311-RX, AR6331-CP, AR6332-CP, AR6181-RX and AR6182-RX.</p> <p>Note: The card number is printed on the back of each card.</p> <p>Quantity in order: 10</p> <p>Dimensions (W x H x D)                      54 x 86 x 0.76 mm</p>	6FL7820-8KA10
<p><b>ABR5100-BL</b></p>  <p><b>Printable Siemens Prox keyring cards</b></p> <p>This is a set of 10 blank, printable ISO cards compliant with Siemens Prox technology. They can be used with the readers ARS6311-RX, AR6331-CP, AR6332-CP, AR6181-RX and AR6182-RX.</p> <p>Note: The card number is printed on the back of each card.</p> <p>Quantity in order: 10</p> <p>Dimensions (W x H x D)                      54 x 86 x 0.76 mm</p>	6FL7820-8KA20
<p><b>ABR5100-TG</b></p>  <p><b>Siemens Prox key-ring tags</b></p> <p>This is a set of 10 key-ring tags compliant with Siemens Prox technology. They can be used with the readers ARS6311-RX, AR6331-CP, AR6332-CP, AR6181-RX and AR6182-RX.</p> <p>Note: The card number is printed on the back of each tag.</p> <p>Quantity in order: 10</p> <p>Dimensions (W x H x D)                      29.80 x 44.90 x 1.55 mm</p>	6FL7820-8KA30




## Cards and Tags Proximity 125 kHz



Type	Order No.
<p><b>IB41-EM</b></p> <p><b>Pre-printed EM laminated card with print</b></p> <p>The IB41-EM is a pre-printed ISO card that is compliant with EM4102 reading technology. It also includes a magnetic stripe. It can be used with the readers HD500-EM, PM500-EM, PR500-EM, SP500-EM, PP500-EM.</p> <p>Note: The card number is printed on the back of the card.</p> <p>Quantity in order: 1</p> <p>Dimensions (W x H x D)                      54 x 86 x 0.76 mm</p> 	<p>S24246-D4904-A1</p>
<p><b>IB42-EM</b></p> <p><b>Blank printable EM laminated card without print</b></p> <p>The IB42-EM is a blank printable ISO card that is compliant with EM4102 reading technology. It also includes a magnetic stripe. It can be used with the readers HD500-EM, PM500-EM, PR500-EM, SP500-EM, PP500-EM.</p> <p>Note: The card number is printed on the back of each card.</p> <p>Quantity in order: 1</p> <p>Dimensions (W x H x D)                      54 x 86 x 0.76 mm</p> 	<p>S24246-D4901-A1</p>
<p><b>IB44-EM</b></p> <p><b>Keyring tag</b></p> <p>The IB44-EM is a keyring tag that is compliant with EM4102 reading technology. It can be used with the readers HD500-EM, PM500-EM, PR500-EM, SP500-EM, PP500-EM.</p> <p>Note: The card number is printed on the front of the tag.</p> <p>Quantity in order: 1</p> <p>Dimensions (W x H x D)                      29.95 x 36.35 x 7.25 mm</p> 	<p>S24246-D4902-A1</p>

## Cards and Tags

### Proximity 125 kHz

Type	Order No.
<b>IB45-EM</b>	<b>S24246-D4903-A1</b>
	
<b>EM adhesive tag</b>	
The IB45-EM is an adhesive tag with Siemens logo that is compliant with EM4102 reading technology. It is intended to be attached to existing magnetic stripe cards when adding EM4102 readers to an existing magstripe installation. It can be used with the readers HD500-EM, PM500-EM, PR500-EM, SP500-EM, PP500-EM.	
Note: The card number is printed on the back of the tag.	
Quantity in order: 1	
Dimensions (Ø x D)                      30 x 3 mm	

## Cards and Tags Magnetic Stripe



Type

Order No.

IB1

### Magnetic stripe cards

This is a set of 100 Siemens-branded magnetic stripe cards with CR80 ISO format (track 2).

Note: The card number is printed on the back of each card.

Quantity in order: 100

Dimensions (W x H x D)            54 x 86 x 0.76 mm



S24246-D5000-A1

SiPass Entro –  
The perfect choice for  
retail environments





# Accessories



Siemens offers a wide range of high-quality accessories, including covers, flush-mounting kits, interfaces, nameplates, cables, transformers and other products.

## Accessories Covers

Type	Order No.
<p><b>SH1</b></p> <p><b>Universal rain cover</b></p> <p>SH1 is a universal protective cover for card readers. It is recommended for outdoor installations.</p>  <p>Dimensions (W x H x D)                      210 x 225 x 160 mm</p>	S24246-Z3652-A1
<p><b>SH2</b></p> <p><b>Rain cover for readers and codelocks</b></p> <p>SH2 is a protective cover for K42, K44Duo, M43, PP500-EM and PP500-Cotag. There are cuttings for cables to simplify the process of adding it to an existing installation.</p>  <p>Dimensions (W x H x D)                      104 x 168 x 90 mm</p>	S24246-Z3554-A1
<p><b>SH3</b></p> <p><b>Rain cover for door entry phones</b></p> <p>SH3 is a protective cover for BM3, BM31, BT41, BT44 and BTK41. There are cuttings for cables to simplify the process of adding it to an existing installation.</p>  <p>Dimensions (W x H x D)                      104 x 225 x 90 mm</p>	S24246-Z5400-A1
<p><b>SH4</b></p> <p><b>Rain cover for card readers</b></p> <p>SH4 is a protective cover for BC615 and BC43. There are cuttings for cables to simplify the process of adding it to an existing installation.</p>  <p>Dimensions (W x H x D)                      140 x 200 x 90 mm</p>	S24246-Z3655-A1

## Accessories Covers



Type

Order No.

IS391

### Spy-proof cover

IS391 is designed for use where higher security is needed. It can be used with K42, K44Duo, M43, PP500-EM and PP500-Cotag. It prevents others from seeing which buttons the user presses on the keypad.






Dimensions (W x H x D)

120 x 104 x 95 mm

S24246-Z3551-A1

## Accessories

### Flush Mounting Kits

Type	Order No.
<p><b>BB3</b></p>  <p><b>Flush-mounting kit</b></p> <p>BB3 is a flush-mounting kit designed to provide an unobtrusive and aesthetically appealing installation of the K42, K44Duo, M43, PP500-EM and PP500-Cotag.</p> <p>Dimensions (W x H x D)                      117 x 197 mm (external)               85 x 175 x 33 mm (recess)</p>	S24246-Z3552-A1
<p><b>BB4</b></p>  <p><b>Flush-mounting kit for magstripe readers with keypads</b></p> <p>BB4 is a flush-mounting kit designed to provide an unobtrusive and aesthetically appealing installation of the BC615 Magstripe and the BC43.</p> <p>Dimensions (W x H x D)                      145 x 255 mm (external)               115 x 230 x 43 mm (recess)</p>	S24246-Z3653-A1
<p><b>BB4Prox</b></p>  <p><b>Flush-mounting kit for BC615 proximity readers</b></p> <p>BB4Prox is a flush-mounting kit designed to provide an unobtrusive and aesthetically appealing installation of the BC615-EM and BC615-Cotag.</p> <p>Dimensions (W x H x D)                      145 x 255 mm (external)               115 x 230 x 43 mm (recess)</p>	S24246-Z3654-A1



## Accessories Flush Mounting Kits



Type	Order No.
<p><b>BB5</b></p> <p><b>Flush-mounting kit</b></p> <p>BB5 is a flush-mounting kit designed to provide an unobtrusive and aesthetically appealing installation of the BM3, BM31, BT41, BT44 and BTK41.</p> <p>Dimensions (W x H x D)                      117 x 260 mm (external) 85 x 235 x 33 mm (recess)</p> 	<p>S24246-Z5401-A1</p>
<p><b>BB6</b></p> <p><b>Flush-mounting kit</b></p> <p>BB6 is a flush-mounting kit designed to provide a discreet and secure installation of PR500-EM and PR500-Cotag. It hides the reader.</p> <p>Dimensions (W x H x D)                      117 x 200 mm (external) 85 x 175 x 33 mm (recess)</p> 	<p>S24246-Z3553-A1</p>
<p><b>BB7</b></p> <p><b>Flush-mounting kit</b></p> <p>BB7 is a flush-mounting kit designed to provide a discreet and secure installation of the IP811 reservation terminal.</p> <p>Dimensions (W x H x D)                      388 x 211 x 43 (external) 354 x 140 x 40 mm (recess)</p> 	<p>S54513-S4-A1</p>

## Accessories Interfaces


Type	Order No.
<p><b>CR1</b></p>  <p><b>Converter for BC615 readers</b></p> <p>CR1 is required when a BC615, BC615-EM or BC615-Cotag is connected to a SiPass Entro segment controller. It converts between RS232 and RS485.</p> <p>Dimensions (W x H x D)                      120 x 80 x 40 mm</p>	S24246-C3651-A1
<p><b>IF1</b></p>  <p><b>SiPass Entro interface box with cable</b></p> <p>IF1 is an interface box that enables the easy connection of a PC (or printer) to a SiPass Entro segment controller. It is supplied with a 15-meter-long cable (not shown).</p> <p>Dimensions (W x H x D)                      85 x 85 x 63 mm</p>	S24246-Z8352-A1
<p><b>USB-RIF/2</b></p>  <p><b>Interface for enrolment reader</b></p> <p>The USB-RIF/2 supports the Clock&amp;Data and Wiegand 26-bit interfaces for connecting readers. It is delivered with a one-meter-long USB cable.</p> <p>It can be used in either SiPass Entro or SiPass integrated for:</p> <ul style="list-style-type: none"> <li>• Easy enrolment of cards and tags into the system</li> <li>• Fast search for cardholder/person</li> </ul> <p>In SiPass Entro it can also be used as a login reader to support authentication via card/tag to the software.</p> <p>Please also see the TG-EM USB and TG-Cotag USB reader kits (SiPass Entro core software section), which include a PR500 reader and a desk stand as well as a USB-RIF/2 interface.</p> <p>Dimensions (W x H x D)                      140 x 66 x 28 mm</p>	S24246-F8655-A1
<p><b>Tamper Kit</b></p>  <p><b>Tamper kit for DC22, SR34i, SR35i and ACC-Lite</b></p> <p>This tamper kit can be used with the DC22, SR34i, SR35i and ACC-Lite. It triggers a tamper alarm in the system if the controller is removed from the wall.</p> <p>Quantity in order: 10</p>	S54513-S3-A1

## Accessories Nameplates



Type	Nameplate	Order No.
NTFlex	<p>This nameplate is made of rugged metal and unbreakable glass. It is intended for use with laserprinted sheets. It includes a CD-ROM with ready-made templates in MS Word for 12, 21 or 30 rows.</p> <p>Dimensions (W x H x D)            170 x 263 x 20 mm</p>	S24246-Z5403-A1
NTFlex Gold	<p><b>Nameplate in gold colour</b></p> <p>This nameplate is made of rugged gold-coloured metal and unbreakable glass. It is intended for use with laserprinted sheets. It includes a CD-ROM with ready-made templates in MS Word for 12, 21 or 30 rows.</p> <p>Dimensions (W x H x D)            170 x 263 x 20 mm</p>	S24246-Z5406-A1
Profile 16x13	<p><b>Profile for use with NTFlex nameplate</b></p> <p>This profile has 16 rows designed for 13 mm text strips.</p>	S24246-Z5404-A1

## Accessories Nameplates

Type	Order No.
<b>Sheets</b> 	<b>20 extra sheets for use with NTFlex nameplate</b> This package includes 20 extra sheets for use with an NTFlex nameplate and a CD-ROM with ready-made templates in MS Word for 12, 21 or 30 rows. <b>S24246-Z5405-A1</b>



Type

Order No.

ACK5100

**SiPass integrated parameterization cable**

ACK5100 is used to create a serial connection between a PC and the AC5100 advanced central controller for configuration.



6FL7820-8FB10

ACK5110

**SiPass integrated modem cable**

ACK5110 is used to create a serial connection between the AC5100 advanced central controller and a modem using a DB25 connector.



6FL7820-8FB11

AAD4011-HF

**SiPass Entro cable, halogen free, 100 m**

AAD4011-HF is a special cable for SiPass Entro designed to simplify system cabling. It contains 3x twisted pairs. The larger diameter pair is for power and two smaller diameter pairs are for data. This cable has excellent electrical properties with respect to minimising voltage drops associated with long cable runs.



S54513-K6-A1

ACS6311

**I/O board for ARS6311-RX**



The ACS6311 I/O board is required for standalone operation of the ARS6311-RX card reader. When an ARS6311-RX card reader is configured for standalone operation (offline mode), it can independently control access via a single door. A standalone access control installation can contain one ARS6311-RX reader (to monitor entries only) or two ARS6311-RX readers (one for entries and one for exits).



S24246-Z4501-A1

Current consumption	100 mA (both relays activated)
Inputs	2 NO/NC inputs, internal pull-up
Outputs	2 relay outputs, NO/NC dry contact, Form C 1.5 A / 24 VDC/AC rated
Card capacity	120
Operating temperature	-25 to +60 °C
Weight	0.05 kg
Dimensions (W x H x D)	66 x 89 x 29 mm
Approval	CE

## Accessories Other Products

Type		Order No.
E7	 <p><b>Multi-relay</b></p> <p>E7 is used for special applications such as achieving a voltage-free connection. It includes two separate outputs. The user can select either voltage or potential-free output (removable jumpers).</p> <p>Weight 0.07 kg</p>	S24246-Z3555-A1
SK5	 <p><b>Security unit</b></p> <p>SK5 eliminates the possibility of opening a lock by using battery power directly on the outgoing lock cables. It fits all products with a tamper switch and it includes a buzzer with a reset button and an alarm output.</p> <p>Weight 0.11 kg</p>	S54513-C7-A1



# Demo equipment



Siemens offers a range of portable SiPass demo cases that can be used to demonstrate product functionality to customers. All of our demo cases are very compact and easy to transport from one customer site to another. They are an excellent tool for salespeople as they enable customers to very quickly gain a hands-on understanding of how the SiPass range of products work and what they look like in real life.

## Demo Equipment

### Demo Cases

Type	Order No.
<p><b>SiPass Entro D. C.</b></p>  <p><b>SiPass Entro demo case</b></p> <p>This heavy-duty demo case with aluminium trim features a complete three-door SiPass Entro system. It also includes an IOR6, which can be used to demonstrate elevator control or alarm outputs.</p> <p>The demo case consist of:</p> <ul style="list-style-type: none"> <li>• SiPass Entro software</li> <li>• DC22</li> <li>• Four-door segment controller</li> <li>• 2 x DC12</li> <li>• IOR6</li> <li>• PP500-EM</li> <li>• HD500-EM</li> <li>• PR500-EM</li> <li>• Exit button</li> <li>• Door contact</li> <li>• Contact for ASF</li> <li>• 6 x red LEDs for elevator control or warning</li> <li>• Power supply</li> <li>• EM cards and tags</li> </ul> <p>Dimensions (W x H x D)                      470 x 110 x 410 mm</p>	<p><b>S24246-D8351-A1</b></p>
<p><b>SiPass integrated D. C.</b></p>  <p><b>SiPass integrated demo case</b></p> <p>This demo case is designed to demonstrate how SiPass integrated works. Functions such as triggering of an input via a switch or badging with a card can be easily executed.</p> <p>The demo case consists of:</p> <ul style="list-style-type: none"> <li>• SiPass integrated software</li> <li>• AC5100</li> <li>• 2 x ADD5100</li> <li>• 4 Mifare square readers (with keypads)</li> <li>• RS232-RS485 converter</li> <li>• Power supply</li> <li>• Cable for AC5100 (RS232)</li> <li>• Crossed network cable</li> <li>• 10 pre-printed Mifare cards</li> </ul> <p>Note: The demo case is supplied without software. The latest version of the software can be downloaded from Siemens' Customer Support Center. Please contact your SiPass supplier for further information.</p>	



## Type Index

Type	Description	Order No.	Page
0270	Loop coupler	GBI: 21-408	3-9
0928-0	Active card	GBI: 51-501	3-12
0940	Wrist tag	GBI: 51-900	3-13
0958-101	Ten-pack of ISO thin cards (unprog.)	GBI: 51-303	3-13
0968-0	Ten-pack of passive Cotag clamshell cards (unprog.)	GBI: 51-108	3-12
0981	Ten-pack of passive Cotag key-ring tags (unprog.)	GBI: 51-404	3-12
4101-3	Modular controller (MK3)	GBI: 50-560	3-7
4102-3	Modular controller (MK3) - sub-assembly	GBI: 50-561	3-7
4103-3	Modular controller (MK3) - motherboard only	GBI: 50-562	3-7
4253	Input/output module	GBI: 50-127	3-11
4322	Cotag reader MK2	GBI: 50-130	3-11
4422	Swipe reader MK2	GBI: 50-136	3-11
4881	Alarm graphics module	GBI: 50-521	3-5
4883	Image monitor module	GBI: 50-515	3-5
4884	Multiple hardware system module	GBI: 50-524	3-5
4885L	Video badging module	GBI: 50-517	3-5
4886	X-Link module	GBI: 50-523	3-5
4887	CCTV manager module	GBI: 50-518	3-5
4888	Visitor manager module	GBI: 50-522	3-5
4889	Database partitioning module	GBI: 50-519	3-6
4890	Granta core software package	GBI: 50-570	3-3
4891	Granta Multi System Manager	GBI: 50-571	3-4
4910	Power supply with battery backup	GBI: 50-151	3-14
4911	Power supply without battery backup	GBI: 50-152	3-14
4953	I/O status display	GBI: 50-155	3-11
633-2	Cotag programmer	GBI: 52-700	3-14
AAD4011-HF	SiPass Entro cable, halogen free, 100 m	S54513-K6-A1	7-9
ABP5100-BL	Printable Mifare cards	6FL7820-8KB20	6-5
ABP5100-PR	Pre-printed Mifare cards	6FL7820-8KB10	6-5
ABR5100-BL	Printable Siemens Prox keyring cards	6FL7820-8KA20	6-6
ABR5100-PR	Pre-printed Siemens Prox cards	6FL7820-8KA10	6-6
ABR5100-TG	Siemens Prox key-ring tags	6FL7820-8KA30	6-6
AC5100	Advanced central controller	6FL7820-8BA10	4-16
AC5102	Advanced central controller	S54507-C22-A1	4-17
AC5160	SiPass integrated controller kit	6FL7820-8BA16	4-18
AC5200	ACC-Lite	S54507-C5-A1	4-19
ACK5100	SiPass integrated parameterization cable	6FL7820-8FB10	7-9
ACK5110	SiPass integrated modem cable	6FL7820-8FB11	7-9
ACS6311	I/O board for ARS6311-RX	S24246-Z4501-A1	7-9
ADD5100	Dual reader interface including base plate	6FL7820-8CA10	4-22
ADD5110	Dual reader interface including base plate and plastic housing	6FL7820-8CA11	4-23
ADD5160	Dual reader interface module in weatherproof housing	6FL7820-8CA16	4-24
ADD5190	Dual reader interface module in cabinet	S54505-C16-A1	4-25
ADE5300	Eight-reader interface, including base plate	S24246-A2500-A1	4-26
ADS5200	Single reader interface module including base plate	6FL7820-8CA20	4-20
ADS5210	Single reader interface module including base plate and plastic housing	6FL7820-8CA21	4-21
AEU5000-AE	Firmware upgrade from SR34i/8 to ACC-8	P54511-P8-A1	4-15
AEU5000-AF	Firmware upgrade from SR34i/4 to ACC-4	P54511-P7-A1	4-15
AEU5000-AS	Firmware upgrade from SR34i/16 to ACC-16	P54511-P9-A1	4-15
AEU5000-AT	Firmware upgrade from SR34i/32 to ACC-32	P54511-P10-A1	4-15
AFI5100	Input point module including base plate	6FL7820-8CB10	4-29
AFO5100	Output point module (16/16) including base plate	6FL7820-8CC10	4-30

## Type Index

Type	Description	Order No.	Page
AFO5200	Output point module (8/8) including base plate	S24246-A2600-A1	4-31
AK1110-CO	DC800 / PR500-Cotag Door Kit	S54507-S6-A1	1-10
AK1110-EM	DC800 / PR500-EM Door Kit	S54507-S2-A4	1-10
AK1111-CO	DC800 / PR500-Cotag Door Kit (incl. PSU)	S54507-S25-A1	1-10
AK1112-CO	DC800 / HD500-Cotag Door Kit (incl. PSU)	S54507-S26-A1	1-10
AK2100-CO	SiPass Entro PR500-Cotag Starter Kit for two doors	S54507-S12-A1	2-14
AK2100-EM	SiPass Entro PR500-EM Starter Kit for two doors	S54507-S2-A5	2-16
AK2101-CO	SiPass Entro PR500-Cotag Starter Kit for four doors	S54511-S14-A1	2-14
AK2101-EM	SiPass Entro PR500-EM Starter Kit for four doors	S54511-S15-A1	2-16
AK2110-CO	SiPass Entro PR500-Cotag Door Kit	S54507-S4-A1	2-15
AK2110-EM	SiPass Entro PR500-EM Door Kit	S54507-S2-A6	2-17
AK2110-MG	SiPass Entro BC16 Door Kit	S54507-S19-A1	2-18
AK2110-MX	SiPass Entro AR6111-MX Mifare Door Kit	S54507-S3-A1	2-17
AK2111-CO	SiPass Entro PP500-Cotag Door Kit	S54507-S18-A1	2-15
AK2111-MX	SiPass Entro MF1040 Door Kit	S54507-S17-A1	2-17
AK2112-CO	SiPass Entro SP500-Cotag Door Kit	S54507-S16-A1	2-15
AK2113-CO	SiPass Entro PM500-Cotag Door Kit	S54507-S23-A1	2-15
AK2114-CO	SiPass Entro HF500-Cotag Door Kit	S54507-S24-A1	2-16
AK2200	SiPass Entro Controller Kit	S54507-S8-A1	2-17
AK2301-CO	SiPass Entro HD500-Cotag Starter Kit for four doors	S54511-S16-A1	2-14
AK2301-EM	SiPass Entro HD500-EM Starter Kit for four doors	S54511-S17-A1	2-16
AK5000-CO	SiPass integrated Cotag Cards Kit	S54511-S11-A1	4-34
AK5110-CO	SiPass integrated SP500-Cotag Door Kit	S54505-S20-A1	4-34
AK5120-CO	SiPass integrated PR500-Cotag Door Kit	S54505-S19-A1	4-34
AR6111-MX	Card reader	6FL7170-8DK	5-14
AR6181-MS	Card reader	6FL7170-8AH	5-12
AR6181-MX	Multi-technology card reader	6FL7170-8BK	5-10
AR6181-RX	Multi-technology card reader	6FL7170-8AD	5-16
AR6182-MS	Card and PIN reader	6FL7170-8AJ	5-13
AR6182-MX	Multi-technology card and PIN reader	6FL7170-8BL	5-11
AR6182-RX	Multi-technology card and PIN reader	6FL7170-8AE	5-17
AR6201-MX	Enrolment reader	6FL7170-8CK	5-15
AR6331-CP	Card reader	6FL7171-8AD	5-19
AR6332-CP	Card and PIN reader	6FL7171-8AE	5-20
ARS6311-RX	Card reader	S24246-Z3900-A1	5-18
ASB5000-CS	SiPass integrated software DVD (Czech)	S54511-P1-A101	4-6
ASB5000-DA	SiPass integrated software DVD (Danish)	6FL7820-8FD16	4-6
ASB5000-DE	SiPass integrated software DVD (German)	6FL7820-8FD11	4-5
ASB5000-EN	SiPass integrated software DVD (English)	6FL7820-8FD10	4-5
ASB5000-ES	SiPass integrated software DVD (Spanish)	6FL7820-8FD14	4-6
ASB5000-FR	SiPass integrated software DVD (French)	6FL7820-8FD12	4-5
ASB5000-HE	SiPass integrated software DVD (Hebrew)	S54511-P1-A103	4-6
ASB5000-IT	SiPass integrated software DVD (Italian)	6FL7820-8FD17	4-6
ASB5000-NL	SiPass integrated software DVD (Dutch)	6FL7820-8FD13	4-6
ASB5000-NO	SiPass integrated software DVD (Norwegian)	S54511-P1-A104	4-6
ASB5000-PL	SiPass integrated software DVD (Polish)	6FL7820-8FD15	4-6
ASB5000-RU	SiPass integrated software DVD (Russian)	S54511-P1-A102	4-6
ASB5000-ZH-CN	SiPass integrated software DVD (Chinese)	S54511-P1-A105	4-6
ASB5000..	SiPass integrated software DVD	ASB5000..	4-5
ASB6201	ConfigCard Creation Tool	P24246-P4400-A1	5-15
ASE5100-BA	Database extension license for 1,000 cards	6FL7820-8AD10	4-7
ASE5100-DO	Database extension license for 8 doors	6FL7820-8AD20	4-7
ASE5100-OC	License for 8 offline components (doors)	P54511-P12-A1	4-7

## Type Index

Type	Description	Order No.	Page
ASE5100-WS	Additional workstation license	6FL7820-8AE00	4-7
ASE5300-AI	APOGEE interface license	P24246-P2800-B1	4-8
ASE5300-AP	Basic HR application programming interface (API) license	6FL7820-8AE04	4-8
ASE5300-CB	CCTV third-party interface license	6FL7820-8AE26	4-9
ASE5300-CW	CCTV capability on a SiPass integrated workstation license	6FL7820-8AE01	4-9
ASE5300-DS	License for Data synchronizer tool	6FL7820-8AE14	4-9
ASE5300-DV	Digital video recorder (DVR) third-party interface license	6FL7820-8AE21	4-9
ASE5300-GP	Graphics license	6FL7820-8AE17	4-10
ASE5300-GT	Guard Tour license	6FL7820-8AE25	4-10
ASE5300-HA	Extended HR application programming interface (API) license	P24246-P2805-A1	4-10
ASE5300-HL	High-level elevator management interface license	6FL7820-8AE07	4-11
ASE5300-ID	Photo ID and image verification license	6FL7820-8AE02	4-11
ASE5300-IN	SiPass integrated intrusion option license	P24246-P2801-A1	4-11
ASE5300-LE	Low-level elevator management license	6FL7820-8AE06	4-12
ASE5300-MA	Management station application programming interface (API) license	P24246-P2803-A1	4-12
ASE5300-ME	Mifare encoding license	6FL7820-8AE20	4-12
ASE5300-MF	Message forwarding license	6FL7820-8AE03	4-13
ASE5300-MM	MM8000 interface license	P24246-P2802-A1	4-13
ASE5300-OC	OPC client license	6FL7820-8AE13	4-13
ASE5300-OS	OPC server interface license	6FL7820-8AE12	4-13
ASE5300-TE	Additional site/facility code license	6FL7820-8AE24	4-14
ASE5300-TR	Time recording export license	6FL7820-8AE22	4-14
ASE5300-VA	DVR application programming interface (API) license	P24246-P2804-A1	4-14
ASE5300-VM	Visitor management license	6FL7820-8AE05	4-14
ASL5000-OA	SiPass integrated software – Optima edition license	6FL7820-8AA20	4-5
ASL5000-SE	SiPass integrated software – Standard edition license	6FL7820-8AA10	4-4
ASL5000-ST	SiPass integrated software – Starter edition license	S54511-P2-A1	4-4
ASL5000-UO	Upgrade license - SiPass integrated Standard to SiPass integrated Optima	6FL7820-8AB10	4-5
ASL5000-US	Upgrade license - SiPass integrated Starter to SiPass integrated Standard	6FL7820-8AB00	4-4
ASL5000..	SiPass integrated software licenses	ASL5000..	4-3
AT15100	Intrusion arming terminal	S24246-F2605-A1	4-33
BB3	Flush-mounting kit	S24246-Z3552-A1	7-4
BB4	Flush-mounting kit for magstripe readers with keypads	S24246-Z3653-A1	7-4
BB4Prox	Flush-mounting kit for BC615 proximity readers	S24246-Z3654-A1	7-4
BB5	Flush-mounting kit	S24246-Z5401-A1	7-5
BB6	Flush-mounting kit	S24246-Z3553-A1	7-5
BB7	Flush-mounting kit	S54513-S4-A1	7-5
BC43	Card and PIN reader	S24246-F4101-A1	5-26
BC5511-Cotag	Split-mounted hands-free reader	S24246-F4701-A1	5-3
BC5516-Cotag	Split-mounted hands-free loop reader kit	S24246-F4702-A1	5-4
BC615	Magnetic stripe card reader	S24246-F3600-A1	1-7
BC615-..	Proximity card readers	BC615-..	1-8
BC615-Cotag	Cotag proximity card reader	S24246-F3601-A1	1-8
BC615-EM	EM proximity card reader	S24246-F3602-A1	1-8
BM3	Door entry phone for PABX	S24246-C7900-A1	1-11
BM31	Single button door entry phone for PABX	S24246-C7901-A1	1-12
CD3500	Codoor codelock – Scandinavian lock case standard	S24246-C8100-A1	1-3
CD4000	Codoor codelock – European lock case standard	S24246-C8101-A1	1-3
CF8	Memory card	S24246-Z8651-A1	2-13
CR1	Converter for BC615 readers	S24246-C3651-A1	7-6

## Type Index

Type	Description	Order No.	Page
DC01	Door controller for use without reader	S24246-C8500-A1	2-7
DC12	Door controller for use with reader(s)	S24246-C8502-A1	2-8, 4-27
DC22	Door controller with alarm control functions	S24246-C8503-A1	2-9, 4-28
DC800	Door controller	S24246-C8200-A1	1-9
E7	Multi-relay	S24246-Z3555-A1	7-10
Entro SW SE	SiPass Entro software – Standard edition	S24246-P8601-A1	2-4
Entro SW SEUL	Additional license for SiPass Entro software – Standard edition	S24246-P8600-A1	2-4
Entro SW TS	SiPass Entro software – Terminal Server edition	S54511-P3-A1	2-4
Entro SW TSUL	Additional licence for SiPass Entro software – Terminal Server edition	P54511-P4-A1	2-4
HD100-2	Heavy-duty proximity reading head	GBI: 50-510	3-9
HD500-Cotag	Heavy duty card reader	S24246-F4703-A1	5-8
HD500-EM	Heavy-duty card reader	S24246-F3901-A1	5-22
HF100-Cotag	Hands-free reading head	GBI: 21-406	3-8
HF500-Cotag	Hands-free reader	S24246-F4106-A1	5-2
IB1	Magnetic stripe cards	S24246-D5000-A1	6-9
IB41-EM	Pre-printed EM laminated card with print	S24246-D4904-A1	6-7
IB42-EM	Blank printable EM laminated card without print	S24246-D4901-A1	6-7
IB44-EM	Keyring tag	S24246-D4902-A1	6-7
IB45-EM	EM adhesive tag	S24246-D4903-A1	6-8
IB911	Active Cotag keyring tag	S24246-D5204-A1	6-2
IB928	Active Cotag clamshell card	S24246-D5203-A1	6-2
IB958	Passive Cotag card without magnetic stripe	S54501-S74-A1	6-3
IB958M	Passive Cotag card with magnetic stripe	S54501-S11-A1	6-3
IB968	Passive Cotag clamshell card	S54501-S10-A1	6-3
IB970	Active Cotag vehicle tag	S24246-D5200-A1	6-2
IB981	Passive Cotag keyring tag	S54501-N7-A1	6-4
IF1	SiPass Entro interface box with cable	S24246-Z8352-A1	7-6
IOR6	IO relay central	S24246-C8501-A1	2-12, 4-32
IP812-Cotag	InfoPoint featuring Cotag reading technology	S54513-Z53-A1	2-13
IP812-EM	InfoPoint featuring EM reading technology	S54513-Z51-A1	2-13
IP812..	InfoPoint	IP812..	2-13
IS391	Spy-proof cover	S24246-Z3551-A1	7-3
K42	Codelock with two codes	S24246-C3552-A1	1-5
K44 Duo	Codelock with 30 codes	S24246-C3553-A1	1-6
M43	PIN only reader	S24246-F8400-A1	5-27
NTFlex	Nameplate	S24246-Z5403-A1	7-7
NTFlex Gold	Nameplate in gold colour	S24246-Z5406-A1	7-7
PM100-Cotag	Panel-mounted proximity reading head	GBI: 50-511	3-10
PM500-Cotag	Panel mounted card reader	S24246-F4705-A1	5-9
PM500-EM	Panel-mounted card reader	S24246-F3903-A1	5-25
PP500-Cotag	Heavy duty card and PIN reader	S54501-F1-A2	5-5
PP500-EM	Heavy-duty card and PIN reader	S54501-F1-A1	5-21
PR100-Cotag	Proximity reading head	GBI: 21-407	3-8
PR500-Cotag	Card reader	S24246-F4706-A1	5-6
PR500-EM	Card reader	S24246-F3913-A1	5-23
Profile 16x13	Profile for use with NTFlex nameplate	S24246-Z5404-A1	7-7
RF30-EM	Wireless Codoor – Scandinavian lock case standard	S54501-F2-A1	1-4, 2-10
RF9	Wireless router	S54505-B1-A1	2-11

## Type Index

Type	Description	Order No.	Page
SH1	Universal rain cover	S24246-Z3652-A1	7-2
SH2	Rain cover for readers and codelocks	S24246-Z3554-A1	7-2
SH3	Rain cover for door entry phones	S24246-Z5400-A1	7-2
SH4	Rain cover for card readers	S24246-Z3655-A1	7-2
Sheets	20 extra sheets for use with NTFlex nameplate	S24246-Z5405-A1	7-8
SiPass Entro	SiPass Entro software	SiPass Entro	2-3
SiPass Entro D. C.	SiPass Entro demo case	S24246-D8351-A1	8-2
SiPass integrated D. C.	SiPass integrated demo case	S24246-D9900-A1	8-2
SK5	Security unit	S54513-C7-A1	7-10
SP100-Cotag	Switch-plate proximity reading head	GBI: 50-512	3-10
SP500-Cotag	Switch-plate card reader	S24246-F4704-A1	5-7
SP500-EM	Switch-plate card reader	S24246-F3902-A1	5-24
SR35i/16+16	Segment controller for 16 wired + 16 wireless doors	S54507-C1-A3	2-6
SR35i/32+32	Segment controller for 32 wired + 32 wireless doors	S54507-C1-A4	2-6
SR35i/4+4	Segment controller for 4 wired + 4 wireless doors	S54507-C1-A1	2-5
SR35i/8+8	Segment controller for 8 wired + 8 wireless doors	S54507-C1-A2	2-6
SR35i..	Segment controller with wireless capability	SR35i..	2-5
Tamper Kit	Tamper kit for DC22, SR34i, SR35i and ACC-Lite	S54513-S3-A1	7-6
TG- USB..	Enrolment reader kit	TG- USB..	2-4
TG-Cotag USB	Enrolment reader kit for Cotag cards and tags	S24246-F8657-A1	2-4
TG-EM USB	Enrolment reader kit for EM cards and tags	S24246-F8656-A1	2-4
USB-RIF/2	Interface for enrolment reader	S24246-F8655-A1	7-6

Siemens AB  
Industry Sector  
Building Technologies Division  
Security Products  
Englundavägen 7  
Box 1275  
17124 Solna  
Sweden  
Tel: +46 8 629 0300  
Fax: +46 8 627 0096

Siemens AG  
Industry Sector  
Building Technologies Division  
Fire Safety & Security Products  
Siemensallee 84  
76187 Karlsruhe,  
Deutschland  
Tel. +49 (721) 595-4291  
Fax: +49 (721) 595-2806

Siemens plc  
I BT Security Products  
Suite 7  
Castlegate Business Park  
Caldicot  
South Wales  
NP26 5AD  
UK  
Main: +44 (0) 1291 437920  
Fax: +44 (0) 1291 437943

The information in this document contains general descriptions of technical options available, which do not always have to be present in individual cases. The required features should therefore be specified in each individual case at the time of closing the contract.

© Siemens AB, 2011.