Access Control
Product Catalogue

Building Technologies

SIEMENS

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

Access Control CCTV Fire Safety Intruder Detection

Everyday small-sized applications in "stand-alone" operation – Small convenience store or petrol station shop

Access control products for this example:

SiPass standalone – an ideal solution for controlling a single door with controller and reader in one device

Programming device for e.g. deleting data for lost cards

Battery-powered codelock

Compact codelock

Medium-sized, networked applications – Large supermarket with warehouse

Access control products for this example:

SiPass networked – simple, flexible and secure access control for small to medium-sized buildings

SiPass Entro – multifunctional and technologically advanced access control for small to large facilities

High-risk applications with local and wide area networking (LAN and WAN) – Commercial bank

Access control products for this example:

SiPass integrated – a comprehensive access control solution for demanding organisations of any size

Advanced central controller not only for controlling doors, but also for elevators and more

Biometric fingertip readers for higher-security access control applications

Various software extensions for integration of other applications, e.g. HR, visitor management, etc.

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SiPass access control systems

SiPass offers a full range of scalable access control systems from single-door applications to large installations that meet special requirements and control an almost unlimited number of doors. All of our systems eliminate the complexity of managing keys and the cost of replacing locks when a key gets lost.

Flexibility, scalability and ease of use are fundamental to the SiPass range. It is easy to start with a single-door application and expand the system gradually as your business grows, building upon your existing hardware components.

Siemens is dedicated to delivering integrated security and access control systems that not only communicate with each other, but also with other systems used in today's business environment such as time and attendance, cashless payment, video surveillance and intrusion systems.

Single-door applications

The SiPass single-door range is made up of non-networked access control products that are operated and customized at the door itself, making them very easy to install and use.

SiPass networked

SiPass networked systems are easy to install and they deliver secure, convenient access control for offices and commercial and industrial facilities on one or more sites.

Up to 16 doors and 500 cardholders.

SiPass integrated

A SiPass integrated system is a scalable access control system that can be integrated easily with other building systems such as video surveillance and elevator management.

Nearly unlimited number of doors and cardholders.

SiPass Entro Lite

SiPass Entro Lite is a cost-efficient yet highly secure access control system that combines the advantages of a single-door system and a networked system. It can coordinate the control of up to 8 doors.

Up to 8 doors and 1,000 cardholders.

SiPass Entro

SiPass Entro is a secure and flexible access control system designed for commercial and industrial premises, public institutions such as hospitals, and all other establishments that require comprehensive and coordinated access control.

Up to 512 doors and 40,000 cardholders.

Door Entry Phones

The SiPass range of door entry phones is designed to meet the needs of small businesses and residential buildings that want a simple yet effective way of controlling access through the main entry door. The range includes two different systems: Bewatel and Bewacom.

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Card reader

Battery-powered codelock

SiPass single-door applications

...ideal for controlling individual doors

Codelock

Card reader

Single-door Applications

Reliable, easy-to-use access control devices for individual doors

The SiPass single-door range includes compact card-reading systems (SiPass standalone and the SiPass BC600 series), codelocks and Codoor systems that meet different access and security requirements, whether in one building or on separate sites.

- Ideal as a first access control system
- Able to manage access rights for up to 1,000 cards and one or more individual doors
- Require no software, PC or network, as all programming is done directly in the unit
- Compact and easy-to-install card readers with integrated door controller and anti-tamper alarms

Type		Order No.
BC615	Magnetic stripe card reader	S24246-F3600-A1

BC615 is a compact, magnetic card reader for one door that is programmable from the keypad. It can 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 clock to make it easy to change security levels. Access registration and printing are possible. The keypad has background illumination. The blocking function is activated when incorrect codes have been entered three times in a row. For flush-mounting, use the BB4 flush mounting unit.

Interface	RS-232 (Printer or system)
Housing	Cast metal with stainless steel keys and security lock
Colour	Grey
Environment	Indoor or outdoor use (IP54 design). In very exposed locations, use SH4 or SH1 rain cover.
IP rating	54
Operating temperature	-30 to +50 °C. At 90% relative air humidity.
Operating voltage	12 to 24 VAC/DC
Current consumption	70 mA
Dimensions (WxHxD)	110 x 160 x 47 mm
Card capacity	1,000
Time schedules	15 (with up to four time zones each)
Time zones	15
Card read distance	N/A
Inputs	Exit button request with delay. Door monitoring. Red LED external control (galvanic insulation), max 12-30 VDC.
Outputs	Voltage free relay contacts, max 2A, 30 VDC. Open collector for alarm/duress, max 0.5A, 30 VDC. Open collector for door alarm max 0.5A, 30 VDC. Tamper switch internal/external (normally closed), max 1A, 30 VDC.
Serial interfaces	RS232: 9600 bps, no parity, 8 bits, 1 startbit, 1 stopbit.

Type			Order No.
BC615-..	Proximity Readers		S24246-MMNN
	These compact proximity card readers can be used for single doors using Cotag or EM4102 reading technology. They are programmable from the keypad and can be used in a SiPass Entro system in conjunction with CR1. There is a built-in clock to make it easy to change security levels. Access registration and printing are possible. The keypad has background illumination. The blocking function is activated when incorrect codes have been entered three times in a row. Available for indoor or outdoor use. For flush mounting, use the BB4Prox flush mounting unit.		
	Interface	RS-232 (Printer or system)	
	Housing	Cast metal with stainless steel keys and security lock	
	Colour	Grey	
	Environment	Indoor or outdoor use (IP54 design). In very exposed locations, use SH4 or SH1 rain cover.	
	IP rating	54	
	Operating temperature	-30 to +50 °C. At 90% relative air humidity.	
	Operating voltage	12 to 24 VAC/DC	
	Current consumption	120 mA	
	Dimensions (WxHxD)	110 x 160 x 47 mm	
	Card capacity	1000	
	Time schedules	15 (with up to four time zones each)	
	Time zones	15	
	Card read distance	Passive cards: approx. 3 cm.	
	Inputs	Exit button request with delay. Door monitoring. Red LED external control (galvanic insulation), max 12-30 VDC.	
	Outputs	Voltage free relay contacts, max 2A, 30 VDC. Open collector for alarm/duress, max 0.5A, 30 VDC. Open collector for door alarm max 0.5A, 30 VDC. Tamper switch internal/external (normally closed), max 1A, 30 VDC.	
	Serial interfaces	RS232: 9600 bps, no parity, 8 bits, 1 startbit, 1 stopbit.	
BC615-Cotag	Cotag Proximity Reader		S24246-F3601-A1
BC615-EM	EM Proximity Reader		S24246-F3602-A1

Type			Order No.
K42	Codelock with 2 codes		S24246-C3552-A1
	One lock, two codes. K42 is the best-selling codelock in the world. A simple and compact codelock with modern design for outdoor montage. With a capacity of two four-digit codes, one can be given to e.g. the mailman or the property caretaker. If the correct code is given the opening relay is activated at the chosen time.		
	Housing	Cast metal with stainless steel buttons and security lock	
	Colour	Grey	
	Environment	Indoor or outdoor use (IP54 design). In very exposed locations, use SH2 or SH1 rain cover.	
	IP rating	54	
	Operating temperature	-35 to +55 °C	
	Operating voltage	12 to 24 VAC	
	Current consumption	8 mA in standby	
	Dimensions (WxHxD)	80 x 140 x 40 mm	
	Door capacity	1	
	Code capacity	Two four-digit codes	
	Inputs	Two exit button requests with delay. Two separate for code disable.	
	Outputs	Voltage free relay contact, max 1A, 28 VDC.	
	Opening time	1 30 sec.	
K44 Duo	Codelock with 30 codes		S24246-C3553-A1
	K44 is a programmable codelock for two doors, with two-relay output and the possibility to set separate codes for each door or the same code for both. There is also the option of door control and alarm output. It has a code capacity of 20 four-digit codes and 10 six-digit codes.		
	Housing	Cast metal with stainless steel buttons and security lock	
	Colour	Grey	
	Environment	Indoor or outdoor use (IP54 design) In very exposed locations, use SH2 or SH1 rain cover	
	IP rating	54	
	Operating temperature	-35 to +55 °C	
	Operating voltage	10 to 35 VDC 8 to 24 VAC	
	Current consumption	75 mA in standby	
	Dimensions (WxHxD)	80 x 140 x 40 mm	
	Door capacity	2	
	Code capacity	20 four-digit codes and 10 six-digit codes	
	Inputs	Two exit button requests with delay. Two separate for codes disable. Two for door contacts. External control of zero opening.	
	Outputs	Two voltage free relay contacts, max 2A, 28 VDC. Open collector for duress/alert. Open collector for door bell. Tamper switch for alarm connection (normally closed).	
	Opening time	1-99 seconds programmable from keypad	

Type		Order No.
K12	Codelock and alarm bypass	S24246-C3554-A1

K12 is an alarm bypass device with integrated codelock and door-monitoring functions. Every code can control the opening relay and/or the alarm relay. K12 is intended for either monostable alarm bypass or bistable control of an external intruder alarm system. The choice of method is programmable. The K12 allows for timer- or button- controlled alarm activation. The red LED can be lit via external input.

Housing	Cast metal with stainless steel buttons and security lock.
Colour	Grey
Environment	Indoor or outdoor use (IP54 design). In very exposed locations, use SH2 or SH1 rain cover.
IP rating	54
Operating temperature	-35 to +55 °C
Operating voltage	10 to 35 VDC 8-24 VAC
Current consumption	75 mA in standby
Dimensions (WxHxD)	80 x 140 x 40 mm
Door capacity	1
Code capacity	20 four-digit codes and 10 six-digit codes
Inputs	One exit button requests with delay. Two separate for codes disable. One for door contacts. External control of alarm activation (bistable alarm). External control of red LED.
Outputs	One voltage free, switching door relay contact, max 2A, 28 VDC. One voltage free, switching alarm relay, max 2A, 28VDC. Open collector for duress or alert. Tamper switch for alarm connection (normally closed).
Opening time	1-99 seconds programmable from keypad.

Codoor

Type		Order No.
CD3500	Codoor codelock	S24246-C8100-A1

CD3500 is a battery-powered codelock that fits directly on the door inside a building. It locks the door from the outside and when the correct code is entered it allows the door to be opened once.

The programming of codes is carried out directly on the button panel. The lock can be set manually to “unlock”. Repeated keying of the wrong code blocks the unit from further attempts. The batteries used are standard alkaline or lithium cells.

Lithium cell batteries provide a number of advantages:
- The voltage level is constant during the whole life cycle.
- The battery recovers faster when there is a more frequent use of the CD3500.
- They are more environmentally friendly since they have a longer lifetime.
- Storing time can be up to ten years.

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.

Colour	Stainless steel
Environment	Indoors, dry
Operating temperature	0 to +50 °C
Operating voltage	9 VDC. Two batteries, 9V type 6LR61 (not included).
Dimensions (WxHxD)	64 x 250 x 64 mm
Code capacity	9
Operational time	Up to 150,000 openings (lithium batteries) or 50,000 openings (alkaline batteries), or one year, whichever comes first

Type		Order No.
CD4000	Codoor codelock	S24246-C8101-A1

CD3500 is a battery-powered codelock that fits directly on the door inside a building. It locks the door from the outside, and when the correct code is entered it allows the door to be opened once.

The programming of codes is carried out directly on the button panel. The lock can be set manually to “unlock”. Repeated keying of the wrong code blocks the unit from further attempts. The batteries used are standard alkaline or lithium cells.

Lithium cell batteries provide a number of advantages:
- The voltage level is constant during the whole life cycle.
- The battery recovers faster when there is more frequent use of the CD4000.
- They are more environmentally friendly since they have a longer lifetime.
- Storing time can be up to ten years.

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 to fit a Euro lock case.

Colour	Stainless steel
Environment	Indoors, dry
Operating temperature	0 to +50 °C
Operating voltage	9 VDC. Two batteries, 9V type 6LR61 (not included).
Dimensions (WxHxD)	70 x 250 x 60 mm
Code capacity	9
Operational time	Up to 150,000 openings (lithium batteries), or 50,000 openings (alkaline batteries) or one year, whichever comes first

Type		Order No.
FP4000	FP4000	S24246-C8152-A1

Fingerprint Codoor, a complete reader unit suitable for fitting to a single door, incorporates an electronic fingerprint reader locking device and a power unit in the same housing.

Fingerprint Codoor offers the use of up to 32 different fingerprint templates and up to four 4-digit codes. These can be used in parallel with fingerprint reading. When Fingerprint Codoor is fitted, the outside door handle is disengaged and may be pressed down without opening the door. To open the door a finger has to be placed on the reader (or a code must be entered). The handle on the inside of the door is not affected by Fingerprint Codoor, and works normally for people leaving the premises.

FP4000 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 to fit a Euro lock case.

Colour	Stainless steel
Environment	Indoors, dry
Operating temperature	0 to +50 °C
Operating voltage	9 VDC. Two batteries, 9V type 6LR61 (not included)
Dimensions (WxHxD)	70 x 255 x 54 mm
Sensor	Capacitive three-dimensional (requires that the finger is “alive”)
Operational time	Approx. 16,000 openings (lithium batteries) or one year, whichever comes first

FP5000	FP5000	S24246-C8151-A1

Fingerprint Codoor, a complete reader unit suitable for fitting to a single door, incorporates an electronic fingerprint reader locking device and a power unit in the same housing.

Fingerprint Codoor offers the use of up to 32 different fingerprint templates and up to four 4-digit codes. These can be used in parallel with fingerprint reading. When Fingerprint Codoor is fitted, the outside door handle is disengaged and may be pressed down without opening the door. To open the door a finger has to be placed on the reader (or a code must be entered). The handle on the inside of the door is not affected by Fingerprint Codoor, and works normally for people leaving the premises.

FP5000 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.

Colour	Stainless steel
Environment	Indoors, dry
Operating temperature	0 to +50 °C
Operating voltage	9 VDC. Two batteries, 9V type 6LR61 (not included)
Dimensions (WxHxD)	64 x 245 x 59 mm
Sensor	Capacitive three-dimensional (requires that the finger is “alive”)
Operational time	Approx. 16,000 openings (lithium batteries) or one year, whichever comes first

Type		Order No.
AKS6311__	SiPass standalone kit  Only two products are necessary for a SiPass standalone installation: one ARS6311-RX card reader and one ACS6311 IO-board. A SiPass standalone installation can also use two ARS6311-RX card readers (one at the entry, the other at the exit side of the door), enabling two-way passage control. The system setup utilizing an ACS6311 provides a higher level of security for access control by separating the reader at the door from the relay board mounted in the secure area. This kit does not have its own order number, its components have to be ordered individually. For order numbers and further technical details, see ARS6311-RX in the "Readers" section and ACS6311in the "Accessories" section.	AKS6311__

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SiPass biometric

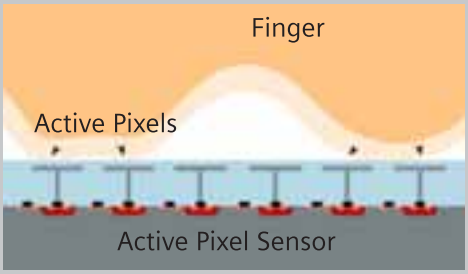
fingertip readers...

The fingertip reader is intended for higher-security access control applications.

1

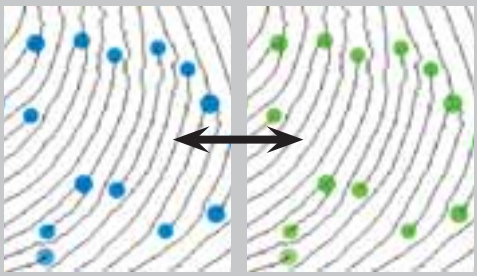
The user places the fingertip on the Siemens infineon sensor.

2



The infineon sensor is equipped with a silicon-wafer with active pixels.

3



The fingertip print of the user is compared with stored fingertip data.

4

Authorised person
> OK

Valid location
> OK

Time
> OK

PIN code (If desired)
> OK

5

Person is identified and has appropriate authorisation.

Access is granted.

... for higher-security access control applications

SiPass Entro Lite

User-friendly, flexible and scalable

SiPass Entro Lite is a cost-efficient system for those who only have a few doors to control but want a greater degree of coordination and overview in their access control system than single-door products can provide.

When used as a standalone system on a single door, the system can be programmed via a keypad in the controller unit – no PC, software or network are required.

The system can be installed with one door to start and then be extended with more doors when needed. SiPass Entro Lite is simple to use, flexible and scalable. If and when the time comes, it's very easy to upgrade to the more comprehensive SiPass Entro.

- Central control of up to 8 doors and 1,000 cardholders
- Easy administration of tags and cards via Windows-based software
- Easy programming and adjustment of security requirements such as type of building or time of the day
- Full control of how the system handles events through the use of filters and search functionality
- No hardware redundancy when the system is expanded

Type		Order No.
DC800	Door controller	S24246-C8200-A1

DC800 is a door controller for one door that is programmable via a built-in keypad or from a PC with the SiPass Entro Lite software. It can also work as a door controller in a larger SiPass Entro system. It includes functions like calendar clock, event buffering, door monitoring, and anti-passback, as well as a bank-lobby function.

It is very easy to upgrade to a multi-door solution by using the SiPass Entro Lite software together with the USB-RIF/2 interface converter.

The DC800 is also a good alternative when a split-mounted code lock is required because it includes a calendar clock (no timers needed). Just install a M43 keypad outside and/or inside the door.

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

Type		Order No.
Entro Lite SW	SiPass Entro Lite software and USB-RIF/2 converter	S24246-P8251-A1

The software can control up to eight DC800 door controllers. Nine languages are included as standard: English, German, French, Dutch, Spanish, Danish, Swedish, Norwegian and Finnish.

It also includes a USB-RIF/2 interface for converting the RS485 communication bus to USB (in PC). See the product USB-RIF/2 for more information about the converter.

The software is of the “one-window” type with both events and programming menus displayed at the same time. It includes visual symbols of doors for quick check of door status.

The USB-RIF/2 allows for enrolment functions to be carried out using a PC. Simply connect a proximity reader (like PR500) to the unit. (See the products TG Prox Cotag or TG Prox EM).

Door capacity	8
Code capacity	10
Card capacity	1,000
Time schedules	10 + one 24 hours a day
Time zones	Two time intervals per day and one interval (in each time schedule) for half days
Security levels	Unlocked, Group code, Card only, Card + PIN, Door locked plus Toggle
System requirements	USB port for connection of the access control system. CD drive. Printer port (parallell). Windows XP or Windows 2000.
Opening time	1-99 seconds
Door held warning time	1-99 seconds

TG-..	TG-EM/TG-Cotag enrolment reader kit	S24246-XXFF
	Enrolment reader kit for EM/Cotag cards and tags. This reader kit consists of a PR500 proximity reader and a desk stand. Connects to the USB-RIF/2. For further technical information about the PR500 readers, look in the “Readers” section of this catalogue.	
TG-EM	TG-EM enrolment reader kit	S24246-F8653-A1
TG-Cotag	TG-Cotag enrolment reader kit	S24246-F8654-A1

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SiPass Entro

A scalable, flexible and user-friendly access control system that currently monitors more than 60,000 doors around the world.

SiPass Entro

Multi-functional and technologically advanced access control for small to large facilities

SiPass Entro is ideal for commercial and industrial premises, public institutions such as hospitals, as well as any other establishment requiring a comprehensive and coordinated access control system. The simplicity and flexibility of the system also make it very suitable for residential properties.

SiPass Entro enables customized access rights by categories, offers a complete range of reports, can control an external alarm system and be operated remotely. It can be used in conjunction with an intruder alarm system, thus simplifying and streamlining the arming and disarming procedures.

- PC-based modular access control system
- Can monitor as many as 512 doors and 40,000 cardholders
- Simple system configuration and improved operating flexibility
- Extensive range of reading systems and card options
- Integral reservation function for rooms and facilities
- Open TCP/IP interface to other systems through BAPSI

Type			Order No.
SR34i..	SR34i segment controller		S24246-XXXX
	The SR34i is the controller used in SiPass Entro version 5. It comes in four different sizes (4, 8, 16 or 32 doors), which makes it simple to optimize the system. Regardless of the size, up to 16 segment controllers can be used in a single SiPass Entro system.		
	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 metres. RS485 Global to other SR34i controllers. RS485 Local to door controllers. Expansion slot for memory card CF8 (compact flash).	
	Colour	White	
	Housing	Plastic housing for wall mounting.	
	Environment	Indoor use only	
	Operating temperature	0 to +50 °C	
	Operating voltage	8 to 40 VDC, 8 to 30 VAC	
	Current consumption	100 mA	
	Dimensions (WxHxD)	248 x 182 x 66 mm	
	Door capacity	4-32	
SR34i/4	SR34i segment controller for 4 doors		S24246-C8451-A1
SR34i/8	SR34i segment controller for 8 doors		S24246-C8452-A1
SR34i/16	SR34i segment controller for 16 doors		S24246-C8453-A1
SR34i/32	SR34i segment controller for 32 doors		S24246-C8454-A1

Type		Order No.
M43	M43 keypad	S24246-F8300-A1

In an 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 a PIN code function to an existing hands-free reader like HF500-Cotag.

Housing	Cast metal with stainless steel keys and security lock
Colour	Grey
Environment	Indoor or outdoor use (IP54 design). In very exposed locations, use SH2 or SH1 rain cover
Operating temperature	-35 to +50 °C
Operating voltage	12 to 24 VDC, powered from controller
Current consumption	50 mA
Dimensions (WxHxD)	80 x 140 x 40 mm
Inputs	Tamper switch for internal alarm

Type		Order No.
DC22	Door controller	S24246-C8503-A1

The DC22 controls one door. It connects on the local RS485 bus to SR34i and works with a variety of card readers (including magnetic stripe, proximity, hands-free, or third-party readers) and keypads. The DC22 also has features like relay outputs for alarm control with ASF (alarm status feedback) and can control an extra motorlock (e.g. Day&Night function). It also has a built-in display for status and error information.

Interface	RS485 connection to SR34i segment controller Connection of readers via BC-link, Clock&Data or Wiegand
Housing	Wallmounted composite housing
Colour	White
Environment	Indoor use only
Operating temperature	-35 to +50 °C
Operating voltage	8 to 40 VDC, 8 to 30 VAC
Current consumption	60 mA
Dimensions (WxHxD)	248 x 182 x 55 mm
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 2A, 30V. Voltage free closing contact (motorlock relay), max 2A, 30V. Voltage free change over contact (alarm bypass relay), max 2A, 30V. Voltage free closing contact (door held warning relay), max 2A, 30V. Voltage free closing contact (pre-warning relay), max 2A, 30V. Voltage free closing contact (alert relay), max 2A, 30V.

Type		Order No.
DC12	Door controller	S24246-C8502-A1

The D12 controls one door. It connects on the local RS485 bus to SR34i and works with a variety of card readers (including magnetic stripe, proximity and hands-free) and keypads. It has a built-in display for status and error information.

Interface	RS485 connection to SR34i and segment controller. Connection of readers via BC-link, Clock&Data or Wiegand.
Housing	Wallmounted composite housing
Colour	White
Environment	Indoor use only
Operating temperature	-35 to +50 °C
Operating voltage	8 to 40 VDC, 8 to 30 VAC
Current consumption	60 mA
Dimensions (WxHxD)	250 x 182 x 54 mm
Inputs	Exit button request with delay. Door contact for indicating closed/open door. Tamper switch for internal control.
Outputs	Voltage free relay contact, max 2A, 30V.

DC01	Door controller	S24246-C8500-A1

The DC01 controls one door (without reader). It is used for general control such as timing functions or door monitoring.

Interface	RS485 connection to SR34i segment controller
Housing	Plastic box
Colour	White
Environment	Indoor use only
Operating temperature	
Operating voltage	8 to 40 VDC or 8 to 30 VAC
Current consumption	100 mA
Dimensions (WxHxD)	120 x 80 x 40 mm
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
Opening time	1-99 secs programmable

Type		Order No.
PD30-EM	Prox Codoor	S24246-F3906-A1

Prox Codoor is a system Prox reader for SiPass Entro with an integrated electromechanical lock. It is an "all-in-one reader" and is an efficient way to meet any indoor security needs. Since the reader is mounted straight onto a standard lock case, you do not have to make any cuts in the door other than those required for the cables for power and communication.

PD30-EM 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 for use with Scandinavian lock cases.

Card read distance	Up to 3 cm with passive card.
Colour	Stainless steel
Environment	Indoors
Operating temperature	0 to 50 C
Operating voltage	8-40 VDC 8-30 VAC
Current consumption	100 mA
Dimensions (WxHxD)	64 x 250 x 64 mm
Supplied with	Dropbox and a 5 metre cable

PD40-EM	Prox Codoor	S24246-F3907-A1

Prox Codoor is a system Prox reader for SiPass Entro with an integrated electromechanical lock. It is an "all-in-one reader" and is an efficient way to meet any indoor security needs. Since the reader is mounted straight onto a standard Euro lock case, you do not have to make any cuts in the door other than those required for the cables for power and communication.

PD40EM 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 use with Euro lock cases.

Card read distance	Up to 3 cm with passive card.
Colour	Stainless steel
Environment	Indoors
Operating temperature	0 to 50 °C
Operating voltage	8-40 VDC 8-30 VAC
Current consumption	100 mA
Dimensions (WxHxD)	70 x 250 x 60 mm
Supplied with	Supplied with dropbox and 5 metre cable

Type		Order No.
IOR6	IO relay central	S24246-C8501-A1

IOR6 is a general relay central for SiPass Entro. With 4 inputs and 6 outputs, it is intended for use in elevator control applications, machine control/door control in reservation applications, or just as pure timer functions.

A maximum of 32 IOR6 units can be used for elevator control (for up to 192 floors). For other purposes, the maximum number is 512.

Interface	RS485 connection to SR34i segment controller
Housing	Wallmounted housing with security lock
Colour	Light grey
Environment	Indoor use only
Operating temperature	-35 to +50 °C
Operating voltage	8 to 40 VDC, 8 to 30 VAC
Current consumption	50 mA in standby, 200 mA with all relays activated.
Dimensions (WxHxD)	140 x 200 x 60 mm
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 work in parallel with above.

Type		Order No.
IP81..	InfoPoint	IP81..
	InfoPoint is used as a reservation terminal for SiPass Entro and has an integrated function to send and receive information from/to the SR34i segment controller (acting as a web server). The InfoPoint uses TCP/IP and works similarly to a web browser in a PC. InfoPoint is supplied with a wall mount kit and a power supply cable (with free end and an RJ45 type of connector). The terminal includes a colour screen and keys for navigating as well as a numeric keypad, which is primarily intended for the "free time" reservation function. InfoPoint also has a proximity reader to identify the person who wants to use the unit. This model either has a reader for Cotag or EM reading technology. There are two models, IP810 with the numeric keypad and IP811 without the numeric keypad.	
	Interface: Standard TCP/IP LAN connection, 10BaseT connector. Type RJ45. Housing: Robust housing in aluminium and composite and a strong polycarbonate film is covering the TFT-screen. Use the BB7 flush mounting unit when flush mounting the InfoPoint. Environment: Indoor use only Operating temperature: 5 to 40 °C Operating voltage: 12 to 35 VAC/DC Current consumption: 350 mA Dimensions (WxHxD): 350 x 154 x 52 mm Screen: Colour TFT screen with the resolution 400 x 240 and 256 colours.	
IP810-EM	EM InfoPoint with numeric keypad	S24246-C8551-A1
IP810-Cotag	Cotag InfoPoint with numeric keypad	S24246-C8552-A1
IP811-EM	EM InfoPoint	S24246-C8553-A1
IP811-Cotag	Cotag InfoPoint	S24246-C8554-A1
CF8	Memory card for SR34i	S24246-Z8651-A1
	CF8 is a memory card for the Web-based reservation feature in SiPass Entro. It is an accessory to be mounted in segment controllers. It is shipped configured for reservation functions in SiPass Entro 5.0 or higher.	

Type		Order No.
Entro 5..	SiPass Entro software v.5	Entro 5..

This software can communicate via direct connection (COM) or on local and global networks (LAN/WAN) via TCP/IP, or via modem-based systems. It includes 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 and many other useful features.

An integrated web-based reservation function is also included in the software. It is ideal for reservation of and 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.

System requirements	Pentium 266MHz. 64 Mb RAM. At least 20 MB free space on disc. CD-ROM drive. VGA colour monitor. Local Area Network connection (Ethernet 10/100Mbit). Serial port for SR34i / modems / printer. Windows 98/2000/XP.
Basic network requirements	Twisted-pair Ethernet 10/100 MBit. Static or dynamic (DHCP) IP-address for SR34i. Permanent/active Internet connection of SR34i (when Internet is used).
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.

Entro 5 SW	SiPass Entro software v.5	S24246-P8601-A1
Entro 5 Add. SW	SiPass Entro additional software license v.5	S24246-P8600-A1
Entro 5 SW + IF1	SiPass Entro software v.5 including IF1	S24246-P8602-A1

Type		Order No.
TG- USB..	Enrolment reader kit for EM or Cotag cards and tags This reader kit consists of one of the PR500 proximity readers, a desk stand and a USB-RIF/2 interface. For further technical information about PR500 readers, see the entry in the "Readers" section of this catalogue. For further technical information about the USB-RIF/2 interface, see the entry in the "Accessories" section.	S24246-VVXX
TG-EM USB	Enrolment reader kit for EM cards and tags	S24246-F8656-A1
TG-Cotag USB	Enrolment reader kit for Cotag cards and tags	S24246-F8657-A1

SiPass networked

Simple yet powerful access control for small to medium-sized buildings

SiPass networked systems deliver secure, convenient access control for offices and commercial and industrial facilities on one or more sites via the use of flexible electronic access cards. Where a higher level of security is required, PIN code and biometric readers can be used in addition to access cards. Easy-to-use software enables any authorized person to manage access rights door-by-door and user-by-user. The attractive, plug-and-play hardware is easy to install and it is also easy to upgrade to a more comprehensive SiPass system later on.

- Includes software that provides extensive access, user and alarm management capabilities
- Supports up to 500 cardholders and 16 doors per installation
- Enables personalized access schedules by time-of-day, day-of-week and holidays
- Requires only a single PC for setup (no need for a dedicated server or Ethernet network)

Kits Overview

	AKN 4100	AKN 4200	AKN 4110-CP	AKN 4210-CP	AKN 4120-CP	AKN 4220-CP	AKN 4110-MX	AKN 4210-MX	AKN 4120-MX	AKN 4220-MX
										
Dual reader controller	•	•	•	•	•	•	•	•	•	•
RS232/RS485 converter AAC3031	•		•		•		•		•	
Software with user manual	•		•		•		•		•	
Proximity reader without keypad AR6331-CP			•	•						
Proximity reader with keypad AR6332-CP					•	•				
Multifunctional reader without keypad AR6181-MX							•	•		
Multifunctional reader with keypad AR6182-MX									•	•
20 Proximity cards			•		•					
20 Mifare cards							•		•	

Please note that kits do not include:
- electrical locks
- request-to-exit devices (refer to Siemens Intrusion Catalogue)
- 12V 7.2 Ah batteries (refer to Siemens Intrusion Catalogue)

Type		Order No.
AKN4110-CP	Dual reader controller starter kit with two readers without keypad	6FL7048-8BA02

The AKN4110-CP is part of the SiPass networked family. SiPass networked is a networked access control system with up to 8 dual reader controllers, each connecting up to two readers, for a total of 16 readers for the system. This starter kit includes two proximity card readers using the 125 kHz technology to read the unique serial number of the SiPass cards. The included system software enables a PC to configure and maintain up to 500 cards over the network. SiPass networked can easily be upgraded to SiPass integrated when needed.

Kit includes	1 x Dual reader controller 2 x Readers without keypad 1 x RS232/RS485 converter 1 x SiPass software CD 20 x Printed SiPass cards 1 x User manual
Dual reader controller	
Number of cards	500 in total for the system
Off-line events	500
Time schedules	12, plus never/always
Holidays	19
Maximum number of controllers	8 on Bus
Maximum number of readers	16 for the system
Door configuration	1 door with "in/out" readers 2 doors with "in" readers
Card	On time schedule
Card technology	125 kHz
Door release	On time schedule
Daily code	On time schedule
System data backup/restore	Yes
Cardholders import/export	Yes
Events	Available as daily text file
Inputs	2 x request-to-exit devices 2 x door contacts 1 x integrated tamper
Expansion components:	AKN4210-CP Extension kit (reader withut keypad) ABR5100-PR 10 x SiPass Card ABR5100-BL 10 x Printable SiPass Card ABR5100-TG 10 x SiPass Key tag
Outputs or electrical locks	2 x relays, 30 VDC, 2 A
Tamper	Integrated
Peripheral supply	12 VDC, 1 A
Power supply	100 z 240 VAC, 0.7 A
Power consumption	25 VA
Battery management	On board
Current consumption	80 mA (approx.)
Operating voltage	12 VDC (±20%)
Protection rating	IP 20
Dimensions (WxHxD)	200 x 300 x 95 mm
Housing	Steel
Colour	Light grey (RAL7035)
Approval	CE

Type		Order No.
AKN4210-CP	Dual reader controller extension kit with two readers w/o keypad	6FL7048-8BB00

The AKN4210-CP is an extension kit that can be connected to either the AKN4110-CP or AKN4120-CP starter kits, but without the RS232/RS485 converter, SiPass cards or software. By adding extension kits to the starter kit, a SiPass networked system with a total of 16 readers and 8 dual reader controllers is possible.

Number of cards	500 in total for the system
Kit compatibility	AKN4110-CP AKN4120-CP
Off-line events	500
Time schedules	12, plus never/always
Holidays	19
Maximum number of controllers	8 on Bus
Maximum number of readers	16 for the system
Door configuration	1 door with in/out readers 2 doors with in readers
Card	On time schedule
Card technology	125 kHz
Door release	On time schedule
Daily code	On time schedule
System data backup/restore	Yes
Cardholders import/export	Yes
Events	Available as daily text file
Inputs	2 x request-to-exit devices 2 x door contacts 1 x integrated tamper
Expansion components:	ABR5100-PR 10 x SiPass Card ABR5100-BL 10 x Printable SiPass Card ABR5100-TG 10 x SiPass Key tag
Extension kit includes	1 x Dual reader controller 2 x Readers without keypad
Outputs or electrical locks	2 x relays, 30 VDC, 2 A
Tamper	Integrated
Peripheral supply	12 VDC, 1 A
Power supply	100 z 240 VAC, 0.7 A
Battery management	On board
Protection rating	IP 20
Operating voltage	12 VDC (±20%)
Current consumption	80 mA (approx.)
Dimensions (WxHxD)	200 x 300 x 95 mm
Housing	Steel
Colour	Light grey (RAL7035)
Approval	CE
Data sheet	A24205-A355-A234

Type		Order No.
AKN4120-CP	Dual reader controller starter kit with two readers with keypad	6FL7048-8BC02

The AKN4120-CP is a part of the SiPass networked family. SiPass networked is a networked access control system with up to 8 dual reader controllers, each connecting up to two readers, for a total of 16 readers for the system. The included system software enables a PC to configure and maintain up to 500 cards over the network. This flexible system allows SiPass networked to be easily upgraded to SiPass integrated when required. A reader with a keypad enables a combination of card reading technology with PIN code, e.g. "Card and PIN", "PIN only" or other user-defined combinations.

Kit includes	1 x Dual reader controller 2 x Readers with keypad 1 x RS232/RS485 converter 1 x SiPass software CD 20 x Printed SiPass cards 1 x User manual
Keypad	Keys 0-9, C,E
Card and/or pin mode	On time schedule
Expansion components:	AKN4220-CP Extension kit (reader with keypad) ABR5100-PR 10 x SiPass card ABR5100-BL 10 x Printable SiPass card ABR5100-TG 10 x SiPass key tag
Number of cards	500 in total for the system
Off-line events	500
Time schedules	12, plus never/always
Holidays	19
Maximum number of controllers	8 on Bus
Maximum number of readers	16 for the system
Door configuration	1 door with in/out readers 2 doors with in readers
Card	On time schedule
Card technology	125 kHz
Door release	On time schedule
Daily code	On time schedule
System data backup/restore	Yes
Cardholders import/export	Yes
Events	Available as daily text file
Inputs	2 x request-to-exit devices 2 x door contacts 1 x integrated tamper
Expansion components:	AKN4220-CP Extension kit (reader with keypad) ABR5100-PR 10 x SiPass card ABR5100-BL 10 x Printable SiPass card ABR5100-TG 10 x SiPass key tag
Outputs or electrical locks	2 x relays, 30 VDC, 2 A
Tamper	Integrated
Peripheral supply	12 VDC, 1 A
Power supply	100 z 240 VAC, 0.7 A
Battery management	On board
Protection rating	IP 20
Operating voltage	12 VDC (±20%)
Current consumption	80 mA (approx.)
Dimensions (WxHxD)	200 x 300 x 95 mm
Housing	Steel
Colour	Light grey (RAL7035)
Approval	CE

Type		Order No.
AKN4220-CP	Dual reader controller extension kit with two readers with keypad	6FL7048-8BD00

The AKN4220-CP is an extension kit that can be connected to either the AKN4110-CP or AKN4120-CP starter kits, but without the RS232/RS485 converter, SiPass cards or software. By adding extension kits to the starter kit, a SiPass networked system of a total of 16 readers and 8 dual reader controllers is possible.

Extension kit includes	1 x Dual reader controller 2 x Readers with keypad
Kit compatibility	AKN4110-CP AKN4120-CP
Keypad	Keys 0-9, C,E
Card and/or pin mode	On time schedule
Expansion components:	ABR5100-PR 10 x SiPass card ABR5100-BL 10 x Printable SiPass card ABR5100-TG 10 x SiPass key tag
Number of cards	500 in total for the system
Off-line events	500
Time schedules	12, plus never/always
Holidays	19
Maximum number of controllers	8 on Bus
Maximum number of readers	16 for the system
Door configuration	1 door with in/out readers 2 doors with in readers
Card	On time schedule
Card technology	125 kHz
Door release	On time schedule
Daily code	On time schedule
System data backup/restore	Yes
Cardholders import/export	Yes
Events	Available as daily text file
Inputs	2 x request-to-exit devices 2 x door contacts 1 x integrated tamper
Expansion components:	ABR5100-PR 10 x SiPass card ABR5100-BL 10 x Printable SiPass card ABR5100-TG 10 x SiPass key tag
Outputs or electrical locks	2 x relays, 30 Vdc, 2 A
Tamper	Integrated
Peripheral supply	12 Vdc, 1 A
Power supply	100 z 240 Vac, 0.7 A
Battery management	On board
Protection rating	IP 20
Operating voltage	12 Vdc (±20%)
Current consumption	80 mA (approx.)
Dimensions (WxHxD)	200 x 300 x 95 mm
Housing	Steel
Colour	Light grey (RAL7035)
Approval	CE

Type		Order No.
AKN4110-MX	Dual reader controller starter kit with 2 readers without keypad	6FL7048-8EA02

The AKN4110-MX is part of the SiPass networked family. SiPass networked is a networked access control system with up to 8 dual reader controllers, each connecting up to two readers, for a total of 16 readers for the system. This starter kit includes two multi-technology card readers using 13.56 MHz technology to read the unique serial number of e.g. Mifare cards. The included system software enables a PC to configure and maintain up to 500 cards over the network. This flexible system allows SiPass networked to be easily upgraded to SiPass integrated when required.

Kit includes	1 x Dual reader controller 2 x Readers without keypad 1 x RS232/RS485 converter 1 x SiPass software CD 20 x Printed Mifare cards 1 x User manual
Dual reader controller	
Number of cards	500 in total for the system
Off-line events	500
Time schedules	12, plus never/always
Holidays	19
Maximum number of controllers	8 on Bus
Maximum number of readers	16 for the system
Door configuration	1 door with "in/out" readers 2 doors with "in" readers
Card	On time schedule
Door release	On time schedule
Daily code	On time schedule
System data backup/restore	Yes
Cardholders import/export	Yes
Events	Available as daily text file
Inputs	2 x request-to-exit devices 2 x door contacts 1 x integrated tamper
Outputs or electrical locks	2 x relays, 30 VDC, 2 A
Tamper	Integrated
Peripheral supply	12 VDC, 1 A
Power supply	100 z 240 VAC, 0.7 A
Power consumption	25 VA
Battery management	On board
Protection rating	IP 20
Dimensions (WxHxD)	200 x 300 x 95 mm
Housing	Steel
Colour	Light grey (RAL9006)
Reader AR6181-MX:	
Power consumption	25 VA
Protection rating	IP 20
Dimensions (WxHxD)	200 x 300 x 95 mm
Housing	Steel
Colour	Light grey (RAL9006)
Expansion components:	AKN4210-MX Extension kit (reader without keypad) ABP5100-PR 10 x Mifare card ABP5100-BL 10 x Printable Mifare card

Type		Order No.
AKN4210-MX	Dual reader controller extension kit with two readers w/o keypad	6FL7048-8EB00

The AKN4210-MX is an extension kit that can be connected to either the AKN4110-MX or AKN4120-MX starter kits, but without the RS232/RS485 converter, SiPass cards or software. By adding extension kits to the starter kit, a SiPass networked system with a total of 16 readers and 8 dual reader controllers is possible.

Extension kit includes	1 x Dual reader controller 2 x Readers without keypad
Kit compatibility	AKN4110-MX AKN4120-MX
Dual reader controller	
Number of cards	500 in total for the system
Off-line events	500
Time schedules	12, plus never/always
Holidays	19
Maximum number of controllers	8 on Bus
Maximum number of readers	16 for the system
Door configuration	1 door with "in/out" readers 2 doors with "in" readers
Card	On time schedule
Door release	On time schedule
Daily code	On time schedule
System data backup/restore	Yes
Cardholders import/export	Yes
Events	Available as daily text file
Inputs	2 x request-to-exit devices 2 x door contacts 1 x integrated tamper
Outputs or electrical locks	2 x relays, 30 VDC, 2 A
Tamper	Integrated
Peripheral supply	12 VDC, 1 A
Power supply	100 z 240 VAC, 0.7 A
Power consumption	25 VA
Battery management	On board
Protection rating	IP 20
Dimensions (WxHxD)	200 x 300 x 95 mm
Housing	Steel
Colour	Light grey (RAL9006)
Reader AR6181-MX:	
Power consumption	25 VA
Protection rating	IP 20
Dimensions (WxHxD)	200 x 300 x 95 mm
Housing	Steel
Colour	Light grey (RAL9006)
Expansion components:	ABP5100-PR 10 x Mifare card ABP5100-BL 10 x Printable Mifare card

Type		Order No.
AKN4120-MX	Dual reader controller starter kit with two readers with keypad	6FL7048-8EC02

The AKN4120-MX is a part of the SiPass networked family. SiPass networked is a networked access control system with up to 8 dual reader controllers, each connecting up to two readers, for a total of 16 readers for the system. The included system software enables a PC to configure and maintain up to 500 cards over the network. This flexible system allows SiPass networked to be easily upgraded to SiPass integrated when required. A reader with keypad enables a combination of card reading technology with PIN code, e.g. "Card and PIN", "PIN only" or other user-defined combinations.

Kit includes	1 x Dual reader controller 2 x Readers with keypad 1 x RS232/RS485 converter 1 x SiPass software CD 20 x Printed Mifare cards 1 x User manual
Keypad	Keys 0-9, C,E
Card and/or pin mode	On time schedule
Expansion components:	AKN4220-MX Extension kit (reader with keypad) ABP5100-PR 10 x Mifare cards ABP5100-BL 10 x Printable Mifare cards
Number of cards	500 in total for the system
Off-line events	500
Time schedules	12, plus never/always
Holidays	19
Maximum number of controllers	8 on Bus
Maximum number of readers	16 for the system
Door configuration	1 door with "in/out" readers 2 doors with "in" readers
Card	On time schedule
Door release	On time schedule
Daily code	On time schedule
System data backup/restore	Yes
Cardholders import/export	Yes
Events	Available as daily text file
Inputs	2 x request-to-exit devices 2 x door contacts 1 x integrated tamper
Expansion components:	AKN4220-MX Extension kit (reader with keypad) ABP5100-PR 10 x Mifare cards ABP5100-BL 10 x Printable Mifare cards
Outputs or electrical locks	2 x relays, 30 VDC, 2 A
Tamper	Integrated
Peripheral supply	12 VDC, 1 A
Power supply	100 z 240 VAC, 0.7 A
Battery management	On board
Protection rating	IP 20
Power consumption	25 VA
Dimensions (WxHxD)	200 x 300 x 95 mm
Housing	Steel
Colour	Light grey (RAL9006)

Type		Order No.
AKN4220-MX	Dual reader controller extension kit with two readers with keypad	6FL7048-8ED00

The AKN4220-MX is an extension kit that can be connected to either the AKN4110-MX or AKN4120-MX starter kits, but without the RS232/RS485 converter, SiPass cards or software. By adding extension kits to the starter kit, a SiPass networked system of a total of 16 readers and 8 dual reader controllers is possible.

Extension kit includes	1 x Dual reader controller 2 x Readers with keypad
Kit compatibility	AKN4110-MX AKN4120-MX
Keypad	Keys 0-9, C,E
Card and/or pin mode	On time schedule
Expansion components:	ABP5100-PR 10 x Mifare cards ABP5100-BL 10 x Printable Mifare cards
Number of cards	500 in total for the system
Off-line events	500
Time schedules	12, plus never/always
Holidays	19
Maximum number of controllers	8 on Bus
Maximum number of readers	16 for the system
Door configuration	1 door with "in/out" readers 2 doors with "in" readers
Card	On time schedule
Power consumption	25 VA
Door release	On time schedule
Daily code	On time schedule
System data backup/restore	Yes
Cardholders import/export	Yes
Events	Available as daily text file
Inputs	2 x request-to-exit devices 2 x door contacts 1 x integrated tamper
Expansion components:	ABP5100-PR 10 x Mifare cards ABP5100-BL 10 x Printable Mifare cards
Outputs or electrical locks	2 x relays, 30 VDC, 2 A
Tamper	Integrated
Peripheral supply	12 VDC, 1 A
Power supply	100 z 240 VAC, 0.7 A
Battery management	On board
Protection rating	IP 20
Operating voltage	
Current consumption	
Dimensions (WxHxD)	200 x 300 x 95 mm
Housing	Steel
Colour	Light grey (RAL9006)
Approval	

Type		Order No.
AKN4100	Dual reader controller starter kit without reader	6FL7048-8FA01

The AKN4110 is part of the SiPass networked family. SiPass networked is a networked access control system with up to 8 dual reader controllers, each connecting up to two readers, for a total of 16 readers for the system. This kit includes a dual reader controller, control software and an RS232-to-RS485 converter to connect a PC to the RS485 network for managing the cards (note that cards and readers are not included in this kit). This kit is suitable for adding other Siemens serial readers, and most third-party readers using Wiegand connectivity (please ask about compatibility).

Kit includes	1 x Dual reader controller 1 x RS232/RS485 converter 1 x SiPass software CD 1 x User manual
Dual reader controller	
Number of cards	500 in total for the system
Off-line events	500
Time schedules	12, plus never/always
Holidays	19
Maximum number of controllers	8 on Bus
Maximum number of readers	16 for the system
Door configuration	1 door with "in/out" readers 2 doors with "in" readers
Card	On time schedule
Door release	On time schedule
Daily code	On time schedule
System data backup/restore	Yes
Cardholders import/export	Yes
Events	Available as daily text file
Inputs	2 x request-to-exit devices 2 x door contacts 1 x integrated tamper
Outputs or electrical locks	2 x relays, 30 VDC, 2A
Tamper	Integrated
Peripheral supply	12 VDC, 1 A
Power supply	100 z 240 VAC, 0.7 A
Power consumption	25 VA
Battery management	On board
Protection rating	IP 20
Dimensions (WxHxD)	200 x 300 x 95 mm
Housing	Steel
Colour	Light grey (RAL7035)
Approval	CE
Expansion components:	AKN4200 up to 7 extension kits

Type		Order No.
AKN4200	Dual reader controller extension kit without reader	6FL7048-8FA02

The AKN4210 is part of the SiPass networked family. SiPass networked is a networked access control system with up to 8 dual reader controllers, each connecting up to two readers, for a total of 16 readers for the system. This kit includes a dual reader controller, control software and an RS232-to-RS485 converter to connect a PC to the RS485 network for managing the cards (note that cards and readers are not included in this kit). This kit is suitable for adding other Siemens serial readers, and most third-party readers using Wiegand connectivity (please ask about compatibility).

Extension kit includes	1 x Dual reader controller
Dual reader controller	
Number of cards	500 in total for the system
Off-line events	500
Time schedules	12, plus never/always
Holidays	19
Maximum number of controllers	8 on Bus
Maximum number of readers	16 for the system
Door configuration	1 door with "in/out" readers 2 doors with "in" readers
Card	On time schedule
Door release	On time schedule
Daily code	On time schedule
System data backup/restore	Yes
Cardholders import/export	Yes
Events	Available as daily text file
Inputs	2 x request-to-exit devices 2 x door contacts 1 x integrated tamper
Outputs or electrical locks	2 x relays, 30 VDC, 2A
Tamper	Integrated
Peripheral supply	12 VDC, 1 A
Power supply	100 z 240 VAC, 0.7 A
Battery management	On board
Protection rating	IP 20
Dimensions (WxHxD)	200 x 300 x 95 mm
Housing	Steel
Colour	Light grey (RAL7035)
Approval	CE
Expansion components:	AKN4200 up to 7 extension kits

Type		Order No.
AAC3031	RS232/RS485 converter	6FL7820-8GA01

This converter is used to connect the RS485 network of SiPass networked to the RS232 port of a PC. It is also used for the configuration of the dual reader interface and input/output of SiPass integrated. The converter will be delivered with a serial cable and a power supply.

Delivered with	1 x RS232/RS485 converter 1 x Power supply 9 VDC 1 x Serial extension cable
RS232/RS485 Converter:	
Power supply	8 z 18 VDC (via female connector or terminal)
Current consumption	Max. 110 mA
RS232 connector	9-pin, Sub-D female
Terminal connectors	RS485 (A, B, GND) Power supply (+9 VDC, GND)
Operating temperature	0 z +50 °C
Protection rating	IP 20
Dimensions (WxHxD)	125 x 40 x 67 mm
Colour top	Light grey (RAL7035)
Colour base	Grey (RAL7038)
Approval	CE
Power supply:	
Output voltage	9 VDC
Output current	680 mA
Serial Extension cable:	
Connectors	1 x 9-pin, Sub-D female 1 x 9-pin, Sub-D male
Length	1,5 m

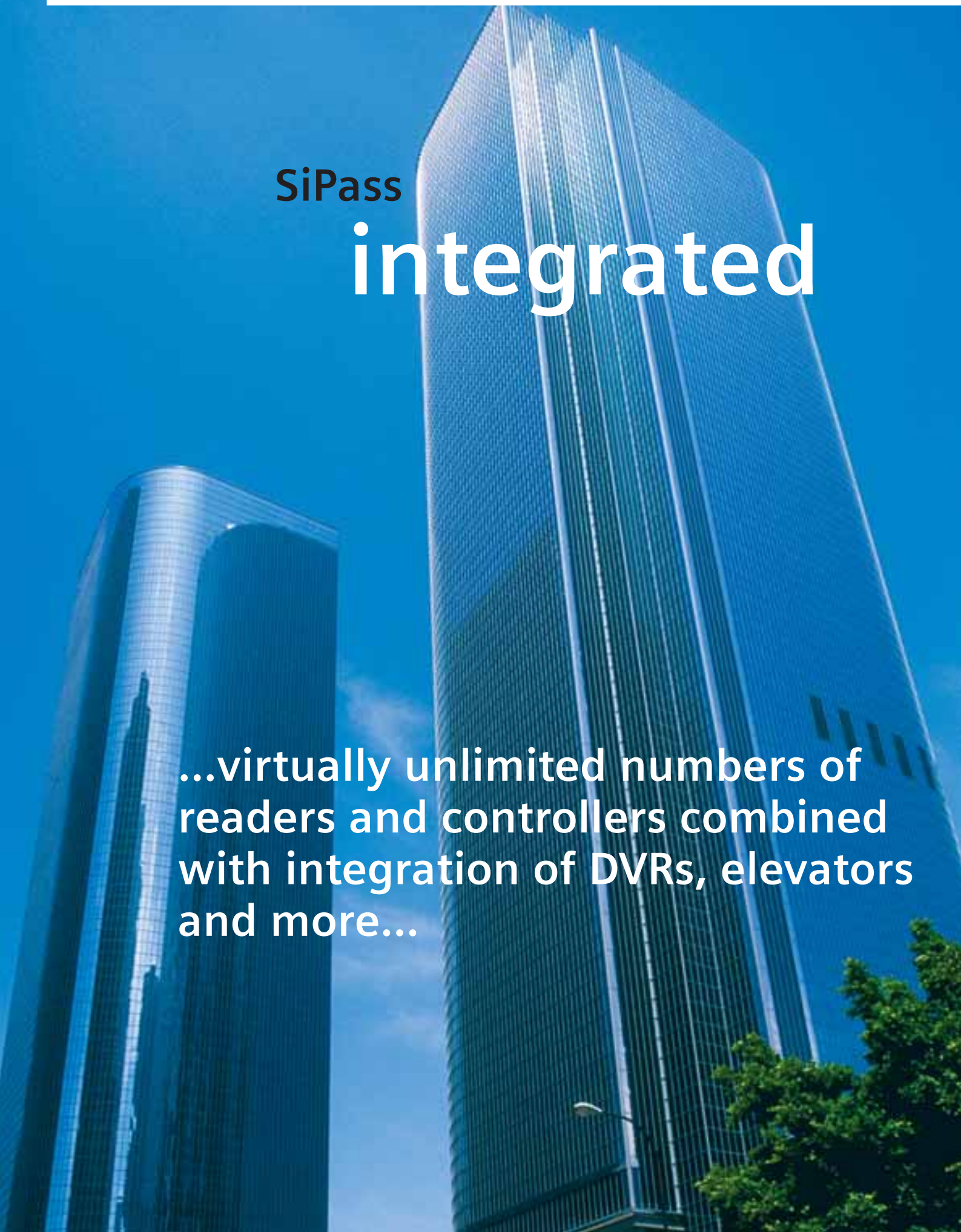
ANC1616-B	RS232/LAN converter	6FL7023-8AA

The ANC1616-B converter enables the connection of the fingertip reader AR6332-BI (which is also included in the fingertip reader starter kit AKB8120) to a TCP/IP Ethernet network. This enables the management of the finger templates over a TCP/IP Ethernet network, to up- and download settings.

Approval	CE
Additional components required for fingerprint connection:	AAB8030 4-wire cable with 25-PIN connector

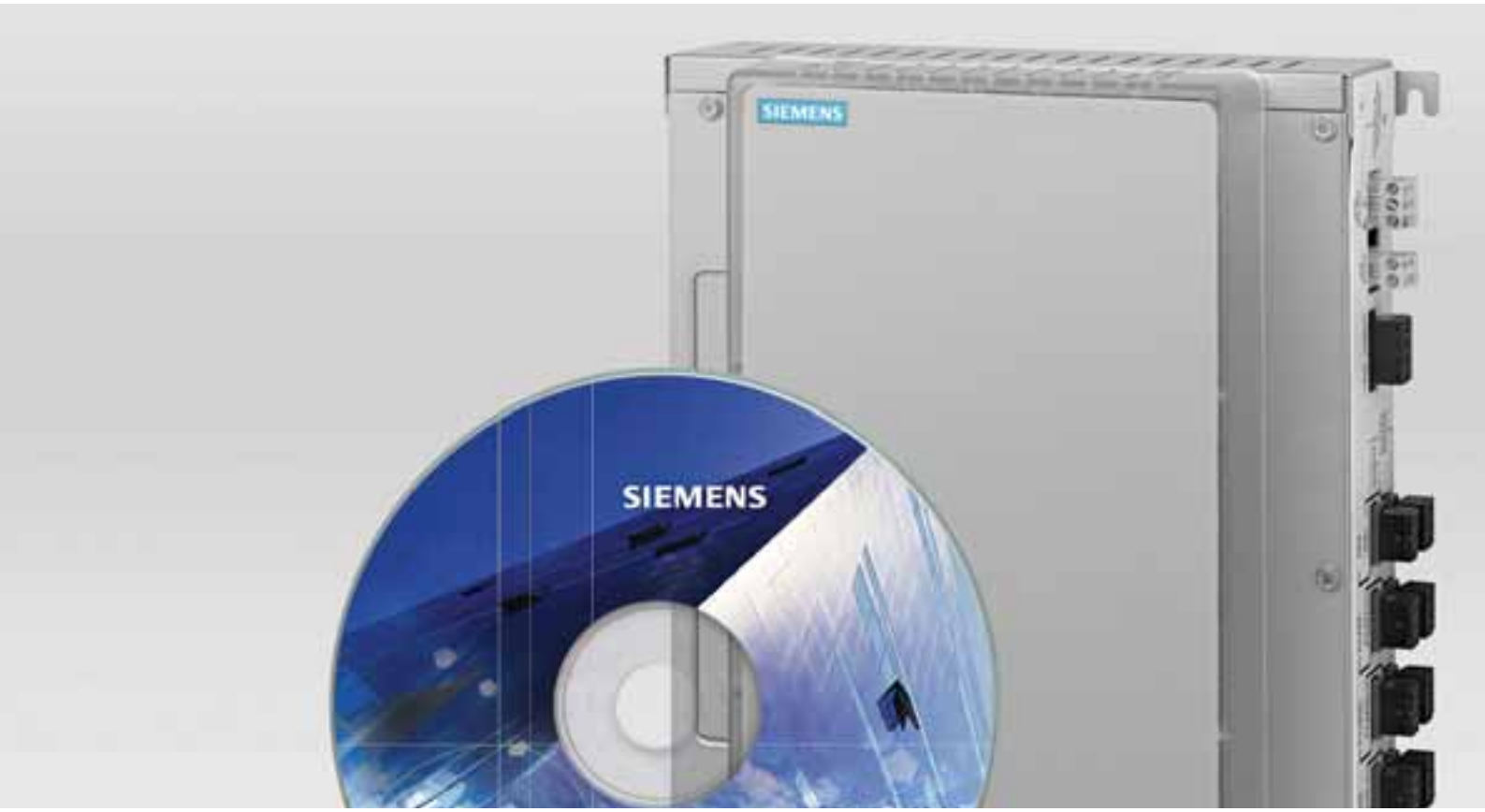
SIEMENS

SiPass integrated



...virtually unlimited numbers of readers and controllers combined with integration of DVRs, elevators and more...

SiPass integrated



Comprehensive access control systems for demanding organizations of any size

SiPass integrated systems are highly scalable, customized systems that provide secure and reliable access control. They fully support existing business processes, including human resources data exchange, time and visitor management, cashless payment and future applications with encrypted Mifare smart cards.

A SiPass integrated system is a total building system that can be integrated with video surveillance, elevator management, security and other building systems. Siemens' decades of system integration experience and standards-based technology ensure unparalleled functionality, quality and investment protection.

- Powerful cardholder, building and event management capabilities, with audit trails and reporting
- Ensures full control over all integrated facilities, locally and/or globally
- Distributed, fail-safe system architecture and robust components ensure reliability in any situation
- Nearly unlimited number of doors and cardholders.

Type		Order No.
AC5100	Advanced central controller, 24 VDC	6FL7820-8BA10

The AC5100 is part of the SiPass integrated system. The size and expansion capability of SiPass integrated is virtually unlimited in terms of the total number of readers and controllers that can operate on this system. This high performance access central controller is ideal for enterprise solutions. The AC5100 is the interface between the PC and the field level devices (ADD5100, AFI5100, AFO5100). For example, it receives cardholder information from a connected reader interface module when each access attempt is made. It then verifies this information and if the appropriate privileges have been assigned to the cardholder, the AC5100 permits the door to be opened.

Operating voltage	24 VDC (-10 z 20%)
Power consumption	10 W
Indicators	LEDs
BLN communication interface	10/100 MB Ethernet (RJ45) (BLN: Building Level Network)
FLN communication interface	4 x RS485 (FLN: Field Level Network)
Diagnostic/ Parameterization	RS232 (RxD, TxD, GND, RJ12)
Alarm input	1 x Tamper input (internally supplied, unsupervised)
Alarm output	1 x Alarm output (open-collector 12 VDC, 100 mA)
Dimensions (H x W x D)	291 x 246 x 98 mm
Operating temperature	0 z 50 °C
Approval	CE, UL294, C-Tick
Additional components required for installation:	ACK5100 Parameterization cable

Type		Order No.
AC5160	Integrated controller kit	6FL7820-8BA16

The AC5160 is part of the SiPass integrated system. The size and expansion capability of SiPass integrated is virtually unlimited in terms of the total number of readers and controllers that can operate on this system. The AC5160 integrated controller kit contains all relevant basic components in a wall-mounted housing to control four readers for the SiPass integrated system. As standard, it is equipped with one advanced central controller, two dual reader interfaces and one power supply. There is additional space inside the housing for quick and easy installation of further SiPass components to control a maximum total of 12 readers from this one controller.

AC5160 includes	1 x Advanced Central controller (AC5100) 2 x Dual reader interface modules (ADD5100) 1 x Power supply 1 x Enclosure
Housing can contain up to	1 x AC5100 1 x AFI5100 or AFO5100 6 x ADD5100 2 x Power packs 2 x Batteries 12 V, 25 Ah
Power supply	230 VAC (-15 z +10%)
Internal power supply	24 VDC
Power consumption	5 A per 150 W (including battery charging)
Operating temperature	-10 z +55 °C
Protection rating	IP 30
Dimensions (WxHxD)	500 x 750 x 200 mm
Housing	Steel
Approval	CE
Additional components required for installation:	ACK5100 Parameterization cable AAC3031 RS232/RS485 converter

Type		Order No.
ADD5100	Dual reader interface including base plate, 24 VDC	6FL7820-8CA10

The ADD5100 is the interface between the card reader and the advanced central controller (for up to two card readers). When a cardholder presents the access card at an entry or exit reader the ADD5100 reader interface interprets the encoded information and sends this data to the advanced central controller (AC5100). The controller then checks the validity of the cardholder, and if the appropriate permissions have been assigned, the controller then 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.

Power supply	12 z 32 VDC (±20%)
Power consumption	25 W
Field bus	RS485
Readers	2 x RS485 or 2 x Wiegand
Inputs (internally or externally supplied)	1 x REX-button 1 x Door contact 3 x Auxiliary
Outputs relays	1 x Door opener (30 VDC, 10 A) 1 x Auxiliary (30 VDC, 10 A)
Auxiliary power supply	12 VDC, 1 A
Dimensions (WxHxD)	125 x 125 x 34 mm
Approval	CE, UL294, C-Tick

ADD5160	Dual reader interface module in weatherproof housing	6FL7820-8CA16

The ADD5160 is the interface between the card reader and the advanced central controller (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 advanced central controller (AC5100). The controller then checks the validity of the cardholder, and if the appropriate permissions have been assigned, the controller then 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.

ADD5160 includes	1 x Dual reader interface (ADD5100) with weatherproof housing
Protection rating	IP66
Housing:	ABS plastic
Power supply	12 z 32 VDC (±20%)
Power consumption	25 W
Field bus	RS485
Readers	2 x RS485 or 2 x Wiegand
Inputs (internally or externally supplied)	1 x REX-button 1 x Door contact 3 x Auxiliary
Outputs relays	1 x Door opener (30 VDC, 10 A) 1 x Auxiliary (30 VDC, 10 A)
Auxiliary power supply	12 VDC, 1 A
Dimensions (WxHxD)	180 x 180 x 60 mm
Approval	CE

Type		Order No.
ADE5300	Eight-reader interface, including baseplate, 12 or 24 VDC	S24246-A2500-A1

The ADE5300 provides a local interface between an AC5100 advanced central controller and up to 8 card readers. From the ADE5300, the information held within the ID cards is transmitted to the AC5100. Each time an access attempt is made the AC5100 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 constellations are possible; for example, you can have six single-reader doors and 1 dual-reader door.

Power supply	12 VDC, -15 up to +10% or 24 VDC, -15 up to +10%
Power consumption	max. 2 A at 12 V, max. 1,5 A at 24 V
Readers	8 x Wiegand reader interfaces, or 1 x Siemens RS-485 reader interface for connecting up to eight readers
Auxiliary power supply	Card reader 8 x 400 mA, 9.7-12 VDC 1 x 1.5 A, 9.7-12 VDC
Field bus	RS485 two wire, half-duplex
Dimensions (WxHxD)	250 x 287 x 50 mm
Approval	Emitted interference: - EN 61000-6-3: 2001 - EN 55022 +A1 +A2 Kl. B: 2003 Interference resistance: - EN 50130-4 +A2: 2003 C-Tick, UL294
Inputs (internally or externally supplied)	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)
Outputs relays	8 x Lock output (30 VDC, 2 A) 8 x Open-collector output (100 mA, 9.7-12 VDC) 2 x Fire override (30 VDC, 2 A)

Type		Order No.
AFI5100	Input point module including base plate, 12/24 VDC	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 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 AC5100. After checking the validity of the data, the AC5100 sends the message to the SiPass server central controlling software, so the alarm-handling mechanism can respond appropriately.

Power supply	12/24 VDC (-15 z +10%)
Power consumption	50 W
Field bus	RS485
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, 10 A) 1 x Alarm output (open-collector 12VDC, 200 mA) 1 x Fire override relay (30 VDC, 10 A)
LED indicators	Power, Activity, Communication Inputs, Outputs Peripheral supplies Fire override
Firmware	Flash upgradeable
Operating temperature	0 z +50 °C
Dimensions (WxHxD)	250 x 287 x 30 mm
Approval	CE, UL294, C-Tick

Type		Order No.
AFO5100	Output point module (16/16) including base plate, 12/24 VDC	6FL7820-8CC10

The AFO5100 is an advanced, multi-purpose module that provides an interface between field level input devices (such as card readers) and output devices (such as override mechanisms) to the advanced central controller AC5100. 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 car to provide access control for further 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.

Power supply	12/24 VDC (-15 z +10%)
Power consumption	50 W
Field bus	RS485
Inputs	16 x Isolated (externally supplied and unsupervised) 1 x Tamper (internally supplied) 2 x Fire override (potential-free or internally supplied)
Outputs	16 x Relays (30 VDC, 10 A) 1 x Tamper (open-collector 12VDC, 100 mA) 2 x Fire override relays (30 VDC, 10 A)
LED indicators	Power, Activity, Communication Inputs, Outputs Peripheral supplies, Fire override
Firmware	Flash upgradeable
Operating temperature	0 - 50 °C
Dimensions (WxHxD)	216 x 267 x 30 mm
Approval	CE, UL294, C-Tick

Type		Order No.
AFO5200	Output point module (8/8) including base plate, 12/24 VDC	S24246-A2600-A1

The AFO5200 is an advanced, multi-purpose module that provides an interface between field level input devices (such as card readers) and output devices (such as override mechanisms) to the advanced central controller AC5100. It is designed for use in elevators that are integrated within an access control environment. A single AFO5200 can provide access control for up to 8 floors and multiple AFO5200 modules can be combined in an elevator car to provide access control for further 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.

Power supply	12/24 VDC (-15 z +10%)
Power consumption	max. 2 A at 12 V, max. 1,5 A at 24 V
Field bus	RS485 two wire, half-duplex
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
Operating temperature	0 - 50 °C (32 - 122 °F)
Dimensions (WxHxD)	250 x 210 x 40 mm
Approval	Emitted interference: - EN 61000-6-3: 2001 - EN 55022 +A1 +A2 Kl. B: 2003 Interference resistance: - EN 50130-4 +A2: 2003 C-Tick, UL294

Type		Order No.
ASL5000-SE	SiPass software standard edition license	6FL7820-8AA10

SiPass software standard edition is a Windows-based client/server system with a wide range of access control features. Its modular architecture allows the installation of systems from basic up to medium complexity.

The software is easy to install and to administer via the user interface, allowing the user to control access into and around buildings by controlling access to doors, while providing high security through advanced alarm management.

The software displays detailed information concerning events that occur, in an "Active Audit Trail" window, updating the user about activity at the business premises in real-time. When using the optional software modules such as Photo ID, Image Verification or Guard Tour, it is possible to tailor the system to fit all access control requirements.

SiPass software standard edition enables the following features when used with SiPass integrated hardware components:
- V Anti-passback
- V Interface to Siemens SIMATRIX matrix switcher
- V Interface to Siemens SISTORE digital video recorders
- V Support for third-party cardholder data import and export via a dedicated tool
- V AES encryption
- V Automatic and event-triggered reporting
- V Three wrong PIN modes
- V Dynamic graphical status screen
- V Time scheduling
- V Instructional alarm response windows
- V Programmable holidays
- V Individual/group cardholder access
- V Manual system override capabilities
- V Real-time event and message logging
- V Simple colour-coded audit trail log
- V Intelligent built-in report generator
- V Full system archiving and restore function
- V Powerful client/server architecture
- V Online operator journal
- V Comprehensive online help system

Standard edition license includes:
- V 24 doors
- V 1,000 cards
- V 1 SiPass server
- V 1 SiPass workstation

Note that ASL5000-SE is a software license only, the SiPass software CD has to be ordered separately in the language you require. Refer to the list on the following page.

To order the ASL5000-SE or any of the SiPass core software, you must first complete a software license order form. Please contact your SiPass supplier for further information.

Type		Order No.
ASB5000-EN	SiPass integrated software CD (English)  This CD-ROM contains: V SiPass integrated software and documentation V SiPass integrated firmware and installation tool V SiPass hardware documentation V Microsoft MSDE database The installation of the firmware on the hardware requires: V AAC3031 for the door modules and signal modules V ACK5100 for the AC5100 controller	6FL7820-8FD10
ASB5000-DE	SiPass integrated software CD (German) This CD-ROM contains: V SiPass integrated software and documentation V SiPass integrated firmware and installation tool V SiPass hardware documentation V Microsoft MSDE database The installation of the firmware on the hardware requires: V AAC3031 for the door modules and signal modules V ACK5100 for the AC5100 controller	6FL7820-8FD11
ASB5000-FR	SiPass integrated software CD (French) This CD-ROM contains: V SiPass integrated software and documentation V SiPass integrated firmware and installation tool V SiPass hardware documentation V Microsoft MSDE database The installation of the firmware on the hardware requires: V AAC3031 for the door modules and signal modules V ACK5100 for the AC5100 controller	6FL7820-8FD12
ASB5000-NL	SiPass integrated software CD (Dutch) This CD-ROM contains: V SiPass integrated software and documentation V SiPass integrated firmware and installation tool V SiPass hardware documentation V Microsoft MSDE database The installation of the firmware on the hardware requires: V AAC3031 for the door modules and signal modules V ACK5100 for the AC5100 controller	6FL7820-8FD13
ASB5000-ES	SiPass integrated software CD (Spanish) This CD-ROM contains: V SiPass integrated software and documentation V SiPass integrated firmware and installation tool V SiPass hardware documentation V Microsoft MSDE database The installation of the firmware on the hardware requires: V AAC3031 for the door modules and signal modules V ACK5100 for the AC5100 controller	6FL7820-8FD14

Type		Order No.
ASB5000-PL	SiPass integrated software CD (Polish) This CD-ROM contains: V SiPass integrated software and documentation V SiPass integrated firmware and installation tool V SiPass hardware documentation V Microsoft MSDE database The installation of the firmware on the hardware requires: V AAC3031 for the door modules and signal modules V ACK5100 for the AC5100 controller	6FL7820-8FD15

Software Extensions

Type		Order No.
ASE5100-BA	Database extension license for 1,000 cards The ASE5100-BA is a 1,000 card database extension from the initial 1,000 cards that are included in the standard license, up to a maximum of 10,000 cards. For more than 10,000 cards, "Microsoft SQL Server" database is required (SQL server is not included in the software CD and has to be purchased separately). To order the SiPass software extensions, you must first complete a software license order form. Please contact your SiPass supplier for further information.	6FL7820-8AD10
ASE5100-DO	Database extension license for 8 doors The ASE5100-DO is an 8-door database extension from the initial 24 doors included in the standard license, up to a maximum of 1,024 doors. To order the SiPass software extensions, you must first complete a software license order form. Please contact your SiPass supplier for further information.	6FL7820-8AD20
ASE5100-WS	Additional workstation license The ASE5100-WS is a single workstation extension from the initial one workstation included in the standard license. For more than five workstations, "Microsoft SQL Server" database is required (SQL server is not included in the software CD and has to be purchased separately). To order the SiPass software extensions, you must first complete a software license order form. Please contact your SiPass supplier for further information.	6FL7820-8AE00
ASE5300-CW	CCTV capability on a SiPass workstation license The ASE5300-CW allows the user to control various CCTV components, such as Siemens SIMATRIX 164, 648 and SYS matrix switching systems. The settings and configurations for cameras and monitors are directly made from the SiPass software and image sequences are displayed in the SiPass user interface. Using the event control function, camera sequences can be programmed. To order the SiPass software extensions, you must first complete a software license order form. Please contact your SiPass supplier for further information.	6FL7820-8AE01
ASE5300-ID	Photo ID and image verification license The ASE5300-ID 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 will strengthen any security system. Within minutes it is possible to construct a custom-designed card template, complete with company logo, photograph and signature, plus any eye-catching graphics that may be required. To order the SiPass software extensions, you must first complete a software license order form. Please contact your SiPass supplier for further information.	6FL7820-8AE02

Type		Order No.
ASE5300-MF	Message forwarding license	6FL7820-8AE03
	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. SiPass's message forwarding option solves this problem. The ASE5300-MF messaging software 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. ASE5300-MF software can also forward alarms and messages to other SiPass servers' central controlling software, residing 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 based activity. *ask your service provider about compatability To order the SiPass software extensions, you must first complete a software license order form. Please contact your SiPass supplier for further information.	
ASE5300-AP	HR application programming interface (API) license	6FL7820-8AE04
	Communication with other applications is an essential feature in modern access control systems. SiPass offers the possibility to set up a customised interface to other applications. The SiPass HR application programming interface (API) allows SiPass cardholder and access control data to be accessed and modified using a third-party application, such as a human resources system or a web browser. To order the SiPass software extensions, you must first complete a software license order form. Please contact your SiPass supplier for further information.	
ASE5300-VM	Visitor management license	6FL7820-8AE05
	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. SiPass addresses these problems and more with the SiPass 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 SiPass cardholders. It also includes an extensive reporting facility for visitor transactions and custom data pages that can be created exclusively for visitor records. To order the SiPass software extensions, you must first complete a software license order form. Please contact your SiPass supplier for further information.	

Type		Order No.
ASE5300-LE	Low-level elevator management license Elevator systems pose a unique challenge to a secure facility. The access control system must simultaneously provide a clean interface to both the elevator management system (EMS) and the security operator for effective access control to floors. With the SiPass low-level interface, the SiPass 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. Configuring access control for an elevator system is a completely transparent process. SiPass simply extends the same concepts governing door access to floors, using a consistent and intuitive graphical user interface. To order the SiPass software extensions, you must first complete a software license order form. Please contact your SiPass supplier for further information.	6FL7820-8AE06
ASE5300-GP	Graphics license The operation of an access control and security application should be as easy and uncomplicated as possible. By providing 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 you can ensure that security conditions can be dealt with efficiently. SiPass provides this efficiency through its advanced graphics option. To order the SiPass software extensions, you must first complete a software license order form. Please contact your SiPass supplier for further information.	6FL7820-8AE17
ASE5300-ME	Mifare encoding license Plastic ID cards are not only used for access control but also for other applications. By using the SiPass Mifare encoding option, access control cards with Mifare technology (such as ABP5100) can also be reprogrammed for many other applications, such as using the card as cashless payment for goods or food within company facilities or on a student campus. To order the SiPass software extensions, you must first complete a software license order form. Please contact your SiPass supplier for further information.	6FL7820-8AE20

Type		Order No.
ASE5300-DV	Digital video recorder (DVR) third-party interface license	6FL7820-8AE21
	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. It is possible to completely manage the recording and playback features of other manufacturers' DVR systems with this software. Combined with SiPass's event and alarm handling functionality, it is possible to trigger immediate recording from DVR cameras in response to alarms or any other system event.	
	To order the SiPass software extensions, you must first complete a software license order form. Please contact your SiPass supplier for further information.	
	Supported DVRs: Dedicated Micros - Digital Sprite 2 Kodicom Diginet D4416 Kodicom Diginet D44216 Kodicom Diginet D4408M Kodicom Diginet D4404M	
ASE5300-TR	Time recording export license	6FL7820-8AE22
	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.	
	To order the SiPass software extensions, you must first complete a software license order form. Please contact your SiPass supplier for further information.	
ASE5300-TE	Additional site/facility code license	6FL7820-8AE24
	Siemens card readers are best used in combination with SiPass 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.	
	* please contact your SiPass supplier for further information.	
	To order the SiPass software extensions, you must first complete a software license order form. Please contact your SiPass supplier for further information.	

Type		Order No.
ASE5300-GT	Guard Tour license 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 Guard Tour conveniently integrates your access control and security network with a state-of-the-art electronic patrol verification system. 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, as it is already in place. 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. To order the SiPass software extensions, you must first complete a software license order form. Please contact your SiPass supplier for further information.	6FL7820-8AE25
ASE5300-CB	CCTV third-party interface licence SiPass CCTV offers an interface to a number of CCTV systems. The settings and configurations for cameras and monitors are directly made from the SiPass integrated system. The image sequences are displayed from the SiPass integrated graphical user interface (GUI). 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 client to a CCTV station. Supported matrix switchers: V Pacom 2030 V Pelco 9760 V Pelco 9740 V Pelco CM6700 V Pelco CM6800 To order the SiPass software extensions, you must first complete a software license order form. Please contact your SiPass supplier for further information.	6FL7820-8AE26
ASE5300-DS	Data synchronizer tool The data synchronizer allows the automatic exchange of cardholder information between SiPass and a third-party application.	6FL7820-8AE14

Readers

The SiPass range of readers are built to stand the test of time. They are easy to install and provide a high level of security while at the same time maximizing freedom of movement within a business environment. Our readers function via five types of technology:

- Proximity (125 kHz)
- Smart Card (13.56 MHz)
- Cotag
- Biometrics
- Magstripe

Type		Order No.
AR6181-RX	Miro/Hitag serial reader	6FL7170-8AD

The AR6181-RX proximity card reader is designed for access control applications using standard Miro, SiPass, Hitag1 and Hitag2 proximity cards, to read the unique card number. The personalised ID number of the Hitag 1 and Hitag 2 cards can also be read by this reader. The AR6181-RX reader can be connected to the dual reader controller of SiPass networked or the dual reader interface module of SiPass integrated.

Card technology	125 kHz
Range	7 cm (approx.)
Operating voltage	12 z 24 VDC
Current consumption	120 mA (approx.)
Operating temperature	-25 z +70 °C
Protection rating	IP 65
Indicators	1 x LED (yellow, green, red) 1 x buzzer
Interface to controller	RS485 monitored CerPass protocol Clock/Data or Omron/Wiegand
Dimensions (WxHxD)	85.5 x 91 x 40 mm 85.5 x 91 x 23 mm
Housing	PC / ABS plastic
Colour	Silver (RAL9006)
Approval	CE, FCC

AR6182-RX	Miro/Hitag reader with keypad	6FL7170-8AE

The AR6182-RX proximity card reader is designed for access control applications using standard Miro, SiPass, Hitag1 and Hitag2 proximity cards, to read the unique card number. The personalised ID number of the Hitag 1 and Hitag 2 cards can also be read by this reader. The AR6182-RX reader can be connected to the dual reader controller of SiPass networked or the dual reader interface module of SiPass integrated.

Keypad	Membrane keyboard Keys 0-9,C,E
Card technology	125 kHz
Range	7 cm (approx.)
Operating voltage	12 z 24 VDC
Current consumption	120 mA (approx.)
Operating temperature	-25 z +70 °C
Protection rating	IP 65
Indicators	1 x LED (yellow, green ,red) 1 x buzzer
Interface to controller	RS485 monitored CerPass protocol Clock/Data or Omron/Wiegand
Dimensions (WxHxD)	85.5 x 91 x 40 mm 85.5 x 91 x 23 mm
Housing	PC / ABS plastic
Colour	Silver (RAL9006)
Approval	CE, FCC

Type		Order No.
ARS6311-RX	SiPass standalone reader	6FL7174-8AB

The ARS6311-RX reader has been designed for use in access control installations as an indoor and outdoor proximity reader to enable user identification via EM 125 kHz UNIQUE standard proximity cards and SiPass/CerPass cards. The ARS6311-RX can be configured for stand-alone mode (also called offline mode) or for use with an external access control unit (ACU) supporting compatible data interface formats (online mode). For stand-alone mode an additional AC6311 I/O board is required.

Card technology	- UNIQUE EM 125 kHz - CerPass/SiPass - Miro
Card read distance	12 cm (approx.)
Current consumption	40 mA
Operating temperature	-25 to +60 °C
Operating voltage	10 - 16 VDC
Protection rating	IP 65
Interface to controller	Clock/Data emulation from: - Wiegand 26/34/42/66 bit - Magstripe data format interface (ABA Track II emulation)
Indicators	3 x LED (green, orange, red) 1 x buzzer
Dimensions (WxHxD)	40 x 100 x 25 mm
Housing	Plastic
Colour	Silver (RAL9006)
Approval	CE

AR6331-CP	SiPass serial reader without keypad	6FL7171-8AD

The AR6331-CP proximity reader is part of the Mullion series. These readers are designed for access control applications using standard SiPass proximity cards to read the unique card number. The AR6331-CP reader can be connected to the dual reader controller of SiPass networked or the dual reader interface module of SiPass integrated.

Card technology	125 kHz
Range	7 cm (approx.)
Operating voltage	12 VDC (±20%)
Current consumption	80 mA (approx.)
Operating temperature	-10 to +55 °C
Protection rating	IP 65
Indicators	3 x LED (yellow, green, red) 1 x Buzzer
Interface to controller	RS485 monitored CerPass protocol
Dimensions (WxHxD)	48 x 147 x 30 mm
Housing	PC/ABS plastic
Colour	Silver (RAL9006)
Approval	CE

Type		Order No.
AR6332-CP	SiPass serial reader with keypad	6FL7171-8AE

The AR6331-CP proximity reader is part of the Mullion series in the awarded access reader design. The readers are designed for access control applications using standard SiPass proximity cards to read the unique card number. The AR6331-CP reader can be connected to the dual reader controller of SiPass networked or the dual reader interface module of SiPass integrated.

Keypad	Membrane keypad Keys 0-9,C,E
Card technology	125 kHz
Range	7 cm (approx.)
Operating voltage	12 VDC (±20%)
Current consumption	80 mA (approx.)
Operating temperature	-10 to +55 °C
Protection rating	IP 65
Indicators	3 x LED (yellow, green, red) 1 x Buzzer
Interface to controller	RS485 monitored CerPass protocol
Dimensions (WxHxD)	48 x 147 x 30 mm mm
Housing	PC/ABS plastic
Colour	Silver (RAL9006)
Approval	CE

BC43-EM	EM prox and PIN reader	S24246-F3904-A1

The BC43-EM is a proximity reader with a built-in keypad for SiPass Entro or SiPass Entro Lite. The built-in keypad offers the possibility of combined access control with both a card and a PIN for higher security. The robust design of the metal casing protects the reader against tampering and makes it extremely vandal-resistant.

Housing	Zinc casting lacquered metallic paint finish with stainless steel keys and security lock.
Colour	Grey
Environment	Indoor or outdoor use
IP rating	54
Operating temperature	-35 to +50 °C
Operating voltage	12 to 24 VDC. Powered from controller unit.
Current consumption	50 mA
Dimensions (WxHxD)	110 x 160 x 47 mm
Inputs	Tamper switch internal/external (normally closed)
Card read distance	Up to 3 cm with passive card

Type		Order No.
HD500-EM	Heavy-duty proximity reader	S24246-F3901-A1

The HD500-EM is a compact proximity reader for SiPass Entro or SiPass Entro Lite. It has been designed for both modern office environments and vulnerable locations that require a higher level of protection. It has a vandal-proof design and is impact- and fire-resistant. It has a reading range of up to 30 cm.

Housing	Polycarbonate case, fully encapsulated electronics, stainless steel outer frame
Colour	Black/stainless steel
Environment	Indoor or outdoor use.
IP rating	65
Operating temperature	-30 to +50 °C
Operating voltage	10,6 to 32 VDC
Current consumption	100 mA
Dimensions (WxHxD)	100 x 128 x 18 mm
Card read distance	Up to 10 cm with passive card.

PM500-EM	Panel-mounted proximity reader	S24246-F3903-A1

The PM500-EM is a compact proximity reader for SiPass Entro or SiPass Entro Lite. It is a high performance panel-mounted proximity reader complete with an onboard library of popular data interfaces for easy integration. It is designed to fit most remote call point enclosures. It is supplied complete with a custom-machined perspex front panel for increased aesthetic appeal. It is suitable for both internal and external installations.

Housing	High impact polycarbonate outer casing, fully potted electronics
Colour	Black
Environment	Indoor or outdoor use
Operating temperature	-30 to +50 °C
Operating voltage	10,6 to 32 VDC
Current consumption	100 mA
Dimensions (WxHxD)	68 x 73 x 13,5 mm
Card read distance	Up to 5 cm with passive card

PR500-EM	Mullion proximity reader	S24246-F3913-A1

The PR500-EM is a compact proximity reader for SiPass Entro or SiPass Entro Lite. It has a reading range of up to 30 cm with an active card and 10 cm with an inactive card.

Housing	ABS base, clip-on ABS front cover
Colour	White
Environment	Indoor or outdoor use.
Operating temperature	-30 to +50 °C
Operating voltage	10,6 to 32 VDC
Current consumption	100 mA
Dimensions (WxHxD)	40 x 140 x 18,5 mm
Card read distance	Up to 10 cm with passive card

Type		Order No.
SP500-EM	Switch-plate proximity reader	S24246-F3902-A1

The SP500-EM is a compact proximity reader for SiPass Entro or SiPass Entro Lite. It can be mounted in most single-gang back-boxes. It has a reading range of up to 30 cm.

Housing	ABS base houses fully encapsulated electronics, clip-on ABS front cover
Colour	White
Environment	Indoor or outdoor use
Operating temperature	-30 to +50 °C
Operating voltage	10.6 to 32 VDC
Current consumption	100 mA
Dimensions (WxHxD)	86 x 86 x 14 mm
Card read distance	Up to 10 cm with passive card

Type		Order No.
AR6181-MX	Reader without keypad	6FL7170-8BK

The AR6181-MX proximity/vicinity reader is designed for access control applications using ISO14443-A, ISO14443-B and ISO15693 standard. It reads either the unique serial number or, for example, the personalised ID number of Mifare, my-C or my-D cards. The reader offers a remote firmware download. Configuring is supported by remote programming or a ConfigCard. It can be connected to the dual reader controller of SiPass networked or SiPass integrated.

Card technology	13.56 MHz
Card read distance	7 cm (approx.)
Operating voltage	12 to 24 VDC/AC (±15%)
Power consumption	Max. 3 W
Operating temperature	-20 to +60 °C
Protection rating	IP 65
Indicators	1 x LED (red/green/orange) 1 x Buzzer
Interface to controller	RS485 monitored CerPass protocol Clock/Data or Omron/Wiegand
Configuration	Via RS485 interface or ConfigCard
Dimensions (WxHxD)	85.5 x 91 x 40 mm 85.5 x 91 x 23 mm
Housing	PC/ABS plastic
Colour	Silver (RAL9006)
Approval	CE, FCC

AR6182-MX	Multi-technology reader with keypad	6FL7170-8BL

The AR6182-MX proximity/vicinity reader is designed for access control applications using ISO14443-A, ISO14443-B and ISO15693 standard. It reads either the unique serial number or, for example, the personalised ID-number of Mifare, my-C or my-D cards. The reader offers a remote firmware download. Configuring is supported by remote programming or a ConfigCard. It can be connected to the dual reader controller of SiPass networked or SiPass integrated.

Keypad	Membrane keyboard Keys 0-9,C,E
Card technology	13.56 MHz
Card read distance	7 cm (approx.)
Operating voltage	12 to 24 VDC/AC (±15%)
Power consumption	Max. 3 W
Operating temperature	-20 to +60 °C
Protection rating	IP 65
Indicators	1 x LED (red/green/orange) 1 x Buzzer
Interface to controller	RS485 monitored CerPass protocol Clock/Data or Omron/Wiegand
Configuration	Via RS485 interface or ConfigCard
Dimensions (WxHxD)	85.5 x 91 x 40 mm 85.5 x 91 x 23 mm
Housing	PC/ABS plastic
Colour	Silver (RAL9006)
Approval	CE, FCC

Type		Order No.
BC43-Cotag	Cotag prox and PIN reader	S24246-F4707-A1

The BC43-Cotag is a proximity reader with a built-in keypad for use with SiPass Entro or SiPass Entro Lite. The built-in keypad offers the possibility of access control with both a card and a PIN for higher security. The robust design of the metal casing protects the reader against tampering and makes it extremely vandal-resistant.

Housing	Zinc casting lacquered metallic paint finish with stainless steel keys and security lock.
Colour	Grey
Environment	Indoor or outdoor use
IP rating	54
Operating temperature	-35 to +50 °C
Operating voltage	12 to 24 VDC. Powered from controller unit.
Current consumption	50 mA
Dimensions (WxHxD)	110 x 160 x 47 mm
Inputs	Tamper switch internal/external (normally closed)
Card read distance	Up to 10 cm with active card or 3 cm with passive card.

BC5270-Cotag	Loop reader	S24246-F4709-A1

The BC5270-Cotag is an integrated loop reader offering both loop coupler and reader electronics inside one convenient enclosure. It has a reading range of up to four metres with active technology tags. It works with a simple wire-loop antenna. It is compatible with all Cotag technology active and passive cards and tags. It reads through all non-metallic materials. It is an easy-to-install complete loop reader compatible with most OEM access control systems. Its size is compact and it drives a loop antenna directly. It tunes the transmit loop and matches loop impedance to line. The transmit range is adjustable.

Colour	Light grey
IP rating	54
Operating temperature	0 to 50 °C
Operating voltage	12 VDC (+25% -10%), linear design only
Current consumption	350
Dimensions (WxHxD)	110 x 195 x 70 mm
Card read distance	4m reading zone with active technology tags
Weight	0.5 kg

Type		Order No.
BC5511-Cotag	Split-mounted hands-free reader	S24246-F4701-A1

The BC5511-Cotag is a hands-free reader for SiPass Entro or SiPass Entro Lite. It consists of the BC5311 reader interface (indoor) and the HF100 reader head (outdoor). It can read through concrete, wood, glass and many other materials, but not metal.

Housing	White, UV-resistant ABS plastic
Environment	Indoor for BC5311, dry environment. Outdoor for HF100.
Operating temperature	-40 to +70 °C. (HF100). 0° to +50°C (BC5311).
Operating voltage	10 to 35 VDC
Current consumption	400 mA (max)
Dimensions (WxHxD)	BC5311: 110 x 195 x 40 mm HF100: 220 x 265 x 30 mm
Card read distance	Appr. 1 m with IB928 (active card). Appr. 30 cm with IB968 (passive card).

BC5516-Cotag	Split-mounted loop reader	S24246-F4702-A1

The BC5516-Cotag is a loop reader pack consisting of a BC270 loop coupler and a BC5311 reader interface.

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.

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.

Housing	Grey, UV-resistant ABS plastic
Operating temperature	-40 to +70 °C (BC270). 0° to +50° C (BC5311).
Operating voltage	10 to 35 VDC
Current consumption	400 mA (max)
Dimensions (WxHxD)	BC270: 160 x 80 x 56 mm. BC5311: 110 x 195 x 40 mm.

HD500-Cotag	Heavy duty proximity reader	S24246-F4703-A1

The HD500-Cotag is a compact proximity reader for SiPass Entro or SiPass Entro Lite. It has been designed for both modern office environments and vulnerable locations that require increased protection. It has a vandal-proof design and is impact- and fire-resistant. It has a reading range of up to 30 cm.

Housing	Polycarbonate case, fully encapsulated electronics, stainless steel outer frame.
Colour	Black and stainless steel
Environment	Indoor or outdoor use
IP rating	65
Operating temperature	-30 to +50 °C
Operating voltage	10.6 to 32 VDC
Current consumption	100 mA
Dimensions (WxHxD)	100 x 128 x 18 mm
Card read distance	Up to 30 cm with active card. Up to 10 cm with passive card.

Type		Order No.
HF500-Cotag	Hands-free reader	S24246-F4106-A1

The HF500-Cotag is a hands-free reader for SiPass Entro or SiPass Entro Lite that is for indoor use only. It can read through concrete, wood, glass and many other materials, but not metal.

Housing	White, UV-resistant ABS plastic
Environment	Indoor use only
Operating temperature	0 to 50 °C
Operating voltage	10 to 35 VDC
Current consumption	400 mA
Dimensions (WxHxD)	220 x 265 x 29.3 mm
Card read distance	Appr. 1m with IB928 (active card). Appr. 15 cm with IB938 (passive card).

PM500-Cotag	Panel-mounted proximity reader	S24246-F4705-A1

The PM500-Cotag is a compact proximity reader for SiPass Entro or SiPass Entro Lite. It is a high performance panel-mounted proximity reader complete with an onboard library of popular data interfaces for easy integration. It is designed to fit most remote call point enclosures. It is supplied complete with a custom-machined perspex front panel for increased aesthetic appeal. It is suitable for both internal and external installations.

Housing	High impact polycarbonate outer casing, fully potted electronics.
Colour	Black
Environment	Indoor or outdoor use
Operating temperature	-30 to +50 °C
Operating voltage	10,6 to 32 VDC
Current consumption	100 mA
Dimensions (WxHxD)	68 x 73 x 13,5 mm
Card read distance	Up to 20 cm with active card. Up to 5 cm with passive card.

PR500-Cotag	Mullion proximity reader	S24246-F4706-A1

The PR500-Cotag is a compact proximity reader for SiPass Entro or SiPass Entro Lite. It has a reading range of up to 30 cm with an active card and 10 cm with an inactive card.

Housing	ABS base, clip-on ABS front cover
Colour	White
Environment	Indoor or outdoor use
Operating temperature	-30 to +50 °C
Operating voltage	10,6 to 32 VDC
Current consumption	100 mA
Dimensions (WxHxD)	40 x 140 x 18.5 mm
Card read distance	Up to 30 cm with active card. Up to 10 cm with passive card.

Type		Order No.
SP500-Cotag	Switch-plate proximity reader	S24246-F4704-A1

The SP500-Cotag is a compact proximity reader for SiPass Entro or SiPass Entro Lite. It can be mounted in most single-gang back-boxes. It has a reading range of up to 30 cm.

Housing	ABS base houses fully encapsulated electronics, clip-on ABS front cover
Colour	White
Environment	Indoor or outdoor use
Operating temperature	-30 to +50 °C
Operating voltage	10.6 to 32 VDC
Current consumption	100 mA
Dimensions (WxHxD)	86 x 86 x 14 mm
Card read distance	Up to 30 cm with active card. Up to 10 cm with passive card.

Type		Order No.
AR6332-BI	Fingertip reader	6FL7173-8AA

This fingertip reader is required when you want to add or replace such a reader in your installation without purchasing a complete fingertip reader kit (AKB8120).

The fingertip reader can be used in two modes. In identification mode, the user is identified by fingerprint data only, whereas in verification mode a PIN code has to be entered as reference for the stored template to be compared with the actual fingerprint.

Operating voltage	9 to 15 VDC
Current consumption	100 mA (approx.)
Protection rating	IP 54 (for indoor use only)
Dimensions (H x W x D)	48 x 147 x 30 mm
Housing	PC/ABS plastic
Colour	Silver (RAL9006)
Relative humidity	95% non-condensing
ESD protection	8kV air discharge on sensor
False acceptance rate	<10-5 (practical value)
False rejection rate	<5 x 10-3 (practical value)
Operation mode	Verification (PIN+Fingerprint) Identification (Fingerprint only)
Keypad	Keys 0-9, C, E
Storage	1 to 10 fingerprints per person 450 fingerprints in total
Indicators	2 x LEDs (yellow, red/green) 1 x Buzzer
Interface to controller	RS485
Additional interfaces	RS232 for template download
Approval	CE

Type		Order No.
BC18	Magstripe reader	S24246-F4100-A1

The BC18 is a magstripe card-only reader for use with SiPass Entro or SiPass Entro Lite. It connects to Entro door controllers (via Clock&Data) or to Bewacard BC640. When both indoor and outdoor readers are to be used, it is connected to a multibox.

Housing	Cast metal with an integrated 3-meter cable
Environment	Indoor or outdoor use (with heating unit VS18). In very exposed locations, use SH1 protective cover.
Operating temperature	-10 to +55°C. (-20 heating unit VS18 installed)
Operating voltage	5 VDC
Current consumption	40 mA.
Dimensions (WxHxD)	29 x 124 x 28 mm

BC43	Magstripe reader with keypad	S24246-F4101-A1

BC43 is a card and PIN reader for SiPass Entro or SiPass Entro Lite. Two units can be installed for indoor/outdoor use. The keypad is equipped with background illumination. For flush mounting, use the BB4 flush mounting unit.

Housing	Zinc casting lacquered metallic paint finish with stainless steel keys and security lock.
Colour	Grey
Environment	Indoor or outdoor use.
IP rating	54
Operating temperature	-35 to +50 °C
Operating voltage	12 to 24 VDC. Powered from controller unit.
Dimensions (WxHxD)	110 x 160 x 47 mm
Inputs	Tamper switch internal/external (normally closed).

Type		Order No.
AKB8120	Fingertip reader kit	6FL7173-8KA

The AKB8120 fingertip reader kit contains a reader, biometrics software, and accessories for installation and configuration. It is suitable for use in combination with SiPass networked or SiPass integrated systems. This fingertip reader is intended for higher security access control applications and can be used in two modes. In identification mode the user is identified by fingerprint data only, whereas in verification mode a PIN code has to be entered as reference for the stored template to be compared with the actual fingerprint.

Kit includes	1 x Fingertip reader with keypad 1 x BIO FTM software 1 x RS232 cable
Finger Tip Reader AR6332-BI:	
Operating voltage	9 to 15 VDC
Current consumption	100 mA (approx.)
Protection rating	IP 54 (for indoor use only)
Dimensions (WxHxD)	48 x 147 x 30 mm
Housing	PC/ABS plastic
Colour	Silver (RAL9006)
Relative humidity	95% non-condensing
ESD protection	8kV air discharge on sensor
False acceptance rate	<10-5 (practical value)
False rejection rate	<5 x 10-3 (practical value)
Operation mode	Verification (PIN + fingerprint) Identification (fingerprint only)
Keypad	Keys 0-9, C, E
Storage	1 to 10 fingerprints per person 450 fingerprints in total
Indicators	2 x LEDs (yellow, red/green) 1 x Buzzer
Interface to controller	RS485
Additional interfaces	RS232 for template download
Approval	CE
Software BIO FTM:	Password protected operation Logbook for transaction logging Identification or verification with PIN Mobile station functionality Fingerprint download via serial or LAN (LAN box required) Data encryption on LAN

Cards and Transponders

Siemens offers a variety of card, tag and transponder technologies for use with the SiPass access control product range, including proximity (125 kHz), Smart Card (13.56 MHz), Cotag and magnetic stripe.

Our Cotag “active” technology makes use of an onboard battery that boosts the reading range between the tag and the reader. The use of active technology cards and tags in conjunction with long-range readers and loops enables true hands-free operation. Cotag active and passive technology cards and tags may be easily mixed within the same system, enabling you to allocate the most appropriate tag technology for each cardholder’s day-to-day duties.

Type		Order No.
ABR5100-PR	Pre-printed SiPass card (x10) This is a set of 10 standard ISO cards pre-printed with the SiPass access control logo. They can be used with readers ACS3110, AR633X-CP, AR618X-RX and AR6473-RX.	6FL7820-8KA10
ABR5100-BL	Printable SiPass card (x10) This is a set of 10 blank ISO cards to be used with readers ACS3110, AR633X-CP, AR618X-RX and AR6473-RX. A customised print can be added to the cards.	6FL7820-8KA20
ABR5100-TG	SiPass proximity key tag (x10) These key tags are to be used with readers ACS3110, AR633X-CP, AR618X-RX and AR6473-RX. The key tags have the same functionality as the proximity cards, but are smaller in size and can easily be attached to a key ring which increases the convenience for the user.	6FL7820-8KA30
IB41-EM	EM laminated card with print IB41-EM is a passive proximity card for EM4102. It includes print and magnetic stripe for use in conventional readers. Note that it will only work in readers with EM 4102 reading technology.	S24246-D4904-A1
IB42-EM	EM laminated card without print IB42-EM is a passive proximity card for EM4102. It also has a magnetic stripe for use in conventional readers. It only works in readers with EM 4102 reading technology.	S24246-D4901-A1

Type		Order No.
IB44-EM	Key tag IB44-EM is a key tag with EM technology. It can be used with readers with EM4102 reading technology.	S24246-D4902-A1
IB45-EM	Adhesive key tag IB45-EM is an adhesive key tag intended for use on existing magnetic stripe cards. It can be used with readers with EM4102 reading technology.	S24246-D4903-A1

Type		Order No.
ABP5100-PR	Pre-printed Mifare card (x10) These pre-printed standard ISO14443A cards have the SiPass access control logo printed on them. They are to be used with the readers AR618X-MX and AR6473-MT.	6FL7820-8KB10
ABP5100-BL	Printable Mifare card (x10) These blank ISO14443A cards are intended for use with readers AR618X-MX and AR6473-MT. A customised print can be added to them.	6FL7820-8KB20

Type		Order No.
IB928	Active, encoded clamshell card featuring Cotag technology Includes lithium battery. Factory encoded.	S24246-D5203-A1
IB928-Blue	Active, encoded clamshell card featuring Cotag technology Includes lithium battery. Factory encoded.	S24246-D5206-A1
		
IB928-Clear	Active, encoded clamshell card featuring Cotag technology Includes lithium battery. Factory encoded.	S24246-D5207-A1
		

Type		Order No.
IB928-Green	Active, encoded clamshell card featuring Cotag technology Includes lithium battery. Factory encoded.	S24246-D5208-A1
		
IB928-Purple	Active, encoded clamshell card featuring Cotag technology Includes lithium battery. Factory encoded.	S24246-D5209-A1
		
IB928-Red	Active, encoded clamshell card featuring Cotag technology Includes lithium battery. Factory encoded.	S24246-D5210-A1
		

Type		Order No.
IB911	Proximity tag Active, proximity tag for Cotag. Includes lithium battery. Factory encoded.	S24246-D5204-A1
IB970	Active, encoded vehicle tag featuring Cotag technology Used with loop technology reader, attached to the underside of the vehicle.	S24246-D5200-A1
IB968	Passive, encoded clamshell card Up to 30 cm read range with hands-free readers, 12 cm with proximity readers. Without battery.	S24246-D5201-A1
IB961	Passive, hands-free tag for Cotag Without battery.	S24246-D5202-A1

Type		Order No.
IB958M	Passive encoded ISO laminated card with IS7811/2 magnetic stripe This card is ideal for photo ID applications as it can be custom-printed on both sides. It has a read range of up to 30 cm with hands-free readers and up to 12 cm with proximity readers.	S24246-D5205-A1

Type		Order No.
IB1-100	Magnetic card (x100) This is a set of 100 Siemens magnetic cards with CR80 ISO format (track 2).	S24246-D5000-A1

SIEMENS

AKNxxxx-MX kit, with or without keypad
using the 13.56 MHz card technology

SiPass networked...

...simple, flexible and secure

AKNxxxx-CP kit, with or without keypad
using the 125 KHz card technology

A system with a total of 16 readers
and 8 controllers is possible.

Door Entry Phones

Most businesses and residential buildings want to be able to lock their main entrances to prevent the entry of unauthorized persons, but at the same time they need to have a simple and convenient way of letting in employees, residents, visitors and so on. The simplest and most effective way of overcoming this problem is to install a door-entry phone system.

Siemens' range of door entry phones consists of two different systems: **Bewatel** and **Bewacom**. Bewatel is designed for one to four telephone handsets. Bewacom is designed for organizations with their own telephone switchboard.

Type		Order No.
BT41	Single call button door entry phone	S24246-F8001-A1

BT41 is a traditional door phone with one key. It connects to a V801/B801handset by wire.

Interface	5-wire cable to handset
Housing	Cast metal with stainless steel keys and security lock. For flush mounting, use BB5 flush mounting unit.
Colour	Grey
Environment	Indoor or outdoor use (IP54 design). In very exposed locations, use SH3 or SH1 rain cover.
IP rating	54
Operating temperature	-35 to +50 °C. At 90% relative air humidity.
Operating voltage	12 to 24 VAC/DC
Current consumption	40 mA in standby
Dimensions (WxHxD)	80 x 200 x 40 mm
Door capacity	N/A
Code capacity	N/A
Inputs	N/A
Outputs	Voltage free relay contact, max. 2 A 28 VDC. Control of separate CCTV system. Tamper switch for alarm (normally closed).
Opening time	1-15 seconds

BT44	Four call button door entry phone	S24246-F8002-A1

BT44 is a traditional doorphone with four keys. It connects by wire to up to four V801/B801 handsets.

Interface	5-wire cable to handset
Housing	Cast metal with stainless steel keys and security lock. For flush mounting, use BB5 flush mounting unit.
Colour	Grey
Environment	Indoor or outdoor use (IP54 design). In very exposed locations, use SH3 or SH1 rain cover.
IP rating	54
Operating temperature	-35 to +50 °C. At 90% relative air humidity.
Operating voltage	12 to 24 VAC/DC
Current consumption	40 mA in standby
Dimensions (WxHxD)	80 x 200 x 40 mm
Door capacity	N/A
Code capacity	N/A
Inputs	N/A
Outputs	Voltage free relay contact, max. 2 A 28 VDC. Control of separate CCTV system. Tamper switch for alarm (normally closed).
Opening time	1-15 seconds

Type		Order No.
BTK41	Door entry phone	S24246-F8005-A1

BTK41 is a traditional door phone with an integrated codelock. It connects by wire to one V801/B801 handset, and the A key is used for calling. It comes equipped with CCTV control, a tamper switch and a duress function.

Interface	5-wire cable to handset
Housing	Cast metal with stainless steel keys and security lock. For flush mounting, use BB5 flush mounting unit.
Colour	Grey
Environment	Indoor or outdoor use (IP54 design). In very exposed locations, use SH3 or SH1 rain cover.
IP rating	54
Operating temperature	-35 to +50 °C. At 90% relative air humidity.
Operating voltage	10 to 35 VAC/DC
Current consumption	40 mA in standby
Dimensions (WxHxD)	80 x 200 x 40 mm
Door capacity	1
Code capacity	4 four-digit codes in standard mode (factory setting) 20 four-digit codes and 10 six-digit codes in advanced mode
Inputs	Exit button request with delay. Control of separate CCTV system. Two separate inputs for code disabling. External control of zero opening.
Outputs	Voltage free relay contact, max 2A, 28 VDC. Open collector for duress. Open collector for door bell. Tamper switch for alarm connection (normally closed).
Opening time	1-99 seconds

BTVX	Exchange unit for connecting several door phones	S24246-C8000-A1

BTVX is an exchange unit. It is required when up to four door phones are connected to one handset in a Bewatel system. It ensures that only the relevant door is opened, rather than all connected doors.

Interface	5-wire to handset. Connection to four door phones.
Housing	White plastic housing with security lock
Environment	Indoor
Operating temperature	-20 to +35 °C
Operating voltage	12 to 24 VAC/DC
Current consumption	20 mA in standby
Dimensions (WxHxD)	200 x 140 x 60 mm

Type		Order No.
V801	Handset for Bewatel	S24246-Z8003-A1

V801 is a white, wall-mounted handset that has an integrated buzzer and a remote opening button. Three handsets can be mounted in parallel.

Interface	5-wire cable to door phone
Environment	Indoor use only
Dimensions (WxHxD)	80 x 220 x 55 mm

B801	Handset for Bewatel	S24246-Z8004-A1

B801 is a desktop telephone handset for connection to BT41, BT44 or BTK41. This model includes a buzzer and an egress (exit) button. Three units can be installed in parallell. A junction box enabling connections is supplied with the handset.

Interface	5-wire cable to door phone
Environment	Indoor use only
Dimensions (WxHxD)	80 x 220 x 55 mm

Type		Order No.
BM3	Door entry phone for PABX	S24246-C7900-A1

BM3 is used as an analog extension for the PABX internal telephone system. It includes one button for hotline function as well as CCTV control and a tamper switch. Connected telephone sets must be able to generate a standard tone signal (DTMF).

Interface	Two analog extension cables for PABX
Housing	Cast metal with stainless steel buttons and security lock. For flush mounting, use BB5 flush mounting kit.
Environment	Indoor or outdoor use. In very exposed locations, use SH3 or SH1 rain cover.
IP rating	54
Operating temperature	-35 to +50°C. At 90% relative air humidity.
Operating voltage	12 to 24 VAC/DC
Current consumption	60 mA in standby
Dimensions (WxHxD)	80 x 200 x 40 mm.
Calling time	1-99 seconds (can be extended x10)
Code capacity	4
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.
Opening time	1-99 seconds programmable from keypad (can be extended x10).

Type		Order No.
BM31	Single button door entry phone for PABX	S24246-C7901-A1

BM31 is used as an analog extension for the PABX internal telephone system. It includes CCTV control and a tamper switch. Connected telephones must be able to generate a standard tone signal (DTMF).

Interface	Two analog extension cables for PABX
Housing	Cast metal with stainless steel buttons and security lock. For flush mounting, use BB5 flush mounting kit.
Environment	Indoor or outdoor use. In very exposed locations, use SH3 or SH1 rain cover.
IP rating	54
Operating temperature	-35 to +50 °C. At 90% relative air humidity.
Operating voltage	12 to 24 VAC/DC
Current consumption	60 mA in standby
Dimensions (WxHxD)	80 x 200 x 40 mm
Calling time	Fixed 30 seconds
Code capacity	N/A
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.
Opening time	Fixed 7 seconds

Accessories

Siemens offers a wide range of high quality accessories, further enhancing the performance and installation of our access control products and systems. Our range includes covers, flush-mounting kits, interfaces, nameplates, cables, transformers and other products.

Covers

Type		Order No.
SH1	Rain cover for card readers SH1 is a universal protective cover for card readers. It is recommended for outdoor installations.	S24246-Z3652-A1
SH2	Rain cover for keypads SH2 is a protective cover for keypads and codelocks that can be used for both new and existing installations. There are cuttings for cables.	S24246-Z3554-A1
SH3	Rain cover for door entry phones SH3 is a protective cover for door entry phones that can be used for new or existing installations. There are cuttings for cables.	S24246-Z5400-A1
SH4	Rain cover for cardreaders SH4 is a protective cover for card readers. There are cuttings for cables to simplify the process of adding it to an existing installation.	S24246-Z3655-A1

Type		Order No.
IS391	Spy-proof cover  IS391 is for use where higher security is needed. It can be used together with the keypads M4 and M65, the codelocks K42, K44 and K44 Duo, and the K12 alarm bypass device.	S24246-Z3551-A1

Flush Mounting Kits

Type		Order No.
BB3	Flush mounting kit BB3 provides an unobtrusive and aesthetically pleasing installation of the following products: K42, K44Duo, K12, M43, or M65. Note: The product photograph shows only the back piece of this mounting kit - the kit also includes a cover piece that is not shown here.	S24246-Z3552-A1
BB4	Flush mounting kit BB4 provides an unobtrusive and aesthetically pleasing installation of the following magnetic stripe readers: BC615 and BC43. Note: The product photograph shows only the back piece of this mounting kit - the kit also includes a cover piece that is not shown here.	S24246-Z3653-A1
BB4Prox	Flush mounting kit BB4Prox provides an unobtrusive and aesthetically pleasing installation of the following proximity readers: BC615 and BC43. Note: The product photograph shows only the back piece of this mounting kit - the kit also includes a cover piece that is not shown here.	S24246-Z3654-A1

Flush Mounting Kits

Type		Order No.
BB5	Flush mounting kit BB5 provides for the unobtrusive and aesthetically pleasing mounting of the following products: BT41, BT44, BTK41, BM3/BM31 or TP5. Note: The product photograph shows only the back piece of this mounting kit - the kit also includes a cover piece that is not shown here.	S24246-Z5401-A1
BB6	Flush mounting kit This kit is intended for the PR500 reader models (it hides the reader), providing a discreet and secure installation. Note: The product photograph shows only the back piece of this mounting kit - the kit also includes a cover piece that is not shown here.	S24246-Z3553-A1

Interfaces

Type		Order No.
CR1	Network interface for BC615 reader The CR1 interface converts between RS232 and RS485. It is required when BC615 is connected to SiPass Entro.	S24246-C3651-A1
IF1	SiPass Entro Interface box with cable IF1 is a junction box and cable for the easy connection of a PC (or printer) to SR34i.	S24246-Z8352-A1
USB-RIF/2	Interface for enrolment reader The USB-RIF/2 supports the Clock&Data and Wiegand 26bit interfaces for connecting readers. It is delivered with a one-meter-long USB cable. It can be used with SiPass Entro for three purposes: - Easy programming of cards and tags - Login reader for card/tag logon to the SiPass Entro software - Fast search for cardholder/person Please also see the TG-EM USB or TG-Cotag USB reader kits, which include a PR500 reader and a desk stand as well as a USB-RIF/2 interface.	S24246-F8655-A1

Type		Order No.
NTFlex	Nameplate This nameplate is made of rugged metal and unbreakable glass. It is intended for use with complete, laserprinted sheets. It includes a diskette with ready-made templates in MS Word for 12, 21 or 30 rows.	S24246-Z5403-A1
NTFlex Gold	Nameplate in gold colour This nameplate is made of rugged gold-coloured metal and unbreakable glass. It is intended for use with complete, laserprinted sheets. It includes a diskette with ready-made templates in MS Word for 12, 21 or 30 rows.	S24246-Z5406-A1
Profile 16x13	Profile for use with NTFlex nameplate This profile has 16 rows designed for 13 mm text strips.	S24246-Z5404-A1
Sheets	20 extra sheets for use with NTFlex nameplate This package includes 20 extra sheets for use with an NTFlex nameplate and a diskette with ready-made templates in MS Word for 12, 20 or 30 rows.	S24246-Z5405-A1

Transformers

Type		Order No.
TA12	Transformer	S24246-Z3556-A1
	Power supply with 12 VAC, 38 VA. Input voltage: 230V, 50-60 Hz Output voltage: 11 V Dimensions (WxHxD) 77 x 138 x 70 mm	
TA/ST12	Transformer	S24246-Z3557-A1
	Power supply transformer with 12 V filtered DC current, 16.8 VA. Input voltage: 230 V, 50-60 Hz Output voltage: 12 VDC Dimensions (WxHxD) 72 x 120 x 63 mm	
TA24	Transformer	S24246-Z3558-A1
	Power supply with 24 VAC, 38 VA. Input voltage: 230V, 50-60 Hz Output voltage: 24 V Dimensions (WxHxD) 77 x 138 x 70 mm	

Type		Order No.
TA/ST24	Transformer	S24246-Z3559-A1

Power supply transformer with 24 V filtered DC current, 24 VA.

Input voltage: 230 V, 50-60 Hz
Output voltage: 24 VDC

Dimensions (WxHxD) 77 x 138 x 70 mm

Type		Order No.
ACK5100	Parameterization cable for AC5100 advanced central controller	6FL7820-8FB10
	This cable is used to create a serial connection between the PC and the AC5100 advanced central controller for configuration. Connectors: 1 x RJ45, 1 x DB9 (male)	
AAB8030	Four-wire cable with 25-PIN connector	6FL7173-8BC
	The AAB8030 cable is required for the connection of the AR6332-BI fingertip reader (which is also included in the AKB8120 fingertip reader starter kit) to the ANC1616-B RS232/LAN converter.	
ACS6311	I/O board for ARS6311-RX	S24246-Z4501-A1
	The ACS6311 I/O board is required for stand-alone operation of the ARS6311-RX card reader. When an ARS6311-RX card reader is configured for stand-alone operation (offline mode), it can independently control access via a single door. A stand-alone 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). Adding an ACS6311 I/O board to the system setup provides a higher level of security by separating the reader from the actuator element controlling the door lock (i.e. the door lock relay).	

Current consumption	100mA (both relays activated)
Power supply	10 - 16 VDC
Operating temperature	-25 °C to +60 °C
Outputs	2 relay outputs, NO/NC dry contact, Form C 1.5 A / 24 V DC/AC rated
Inputs	2 NO/NC inputs, internal pull-up
Dimensions (WxHxD)	66 x 89 x 29 mm (with housing)
Approval	CE
Weight	50 g

Type		Order No.
E7	Multi-relay This general relay 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).	S24246-Z3555-A1

SIEMENS

SiPass
portable
demo equipment

The ideal way to demonstrate product functionality to customers

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.

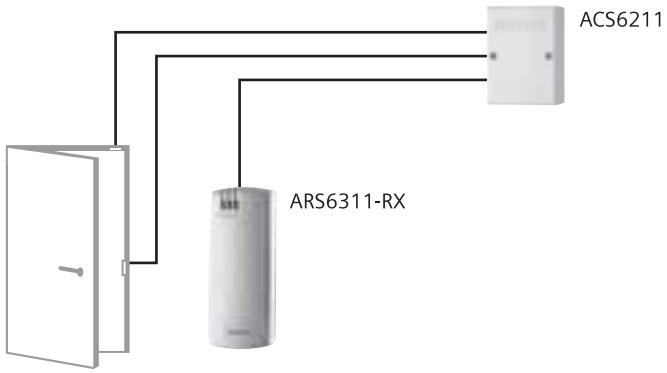
Demo Cases

Type		Order No.
Entro Lite D. C.	SiPass Entro Lite demo case	S24246-P8300-A1
	The demo case is a black heavy-duty case with aluminium trim that features a one-door system. You can program the DC800 from the built-in keypad. You can also demonstrate how to use the one-door system together with the SiPass Entro Lite software installed on a PC and connected on the USB port via the USB-RIF/2. The demo case consist of: V DC800 V PR500EM V USB-RIF/2 V Entro Lite software V Exit button V Door contact V LED for Warning V Power supply V EM tags The DC800 controller is connected via an RS485 bus. When the PC is online all information is sent/received from the controllers. The database can also be downloaded to each DC800 on demand. Dimensions (WxHxD) 420 x 130 x 310 mm	
Entro 5 D. C.	SiPass Entro demo case	S24246-P8658-A1
	The demo case is a black heavy-duty case with aluminium trim. It features a complete three-door system and also includes an IOR6, which can be used to demonstrate elevator control or alarm outputs. The demo case consist of: V SR34i/4 V DC22 V 2 x DC12 V IOR6 V BC43EM V HD500EM V PR500EM V Exit button V Door contact V Contact for ASF V 6 x red LEDs for elevator control or warning V Power supply V EM cards and tags Dimensions (WxHxD) 470 x 110 x 410 mm	
Net/int. D. C.	SiPass networked/integrated demo case	S24246-D9900-A1
	This demo case is used to demonstrate SiPass integrated and SiPass networked. The wiring is the same for both systems, it's only necessary to change the firmware for the hardware modules. Functions like triggering of an input via a switch or badging with a card can be easily executed. The demo case comes without software. The demo case consists of: V AC5100 V 2 x ADD5100 V 4 Mifare square readers (with keypads) V RS232-RS485 converter V Power supply V Cable for AC5100 (RS232) V Crossed network cable V 10 pre-printed Mifare cards	

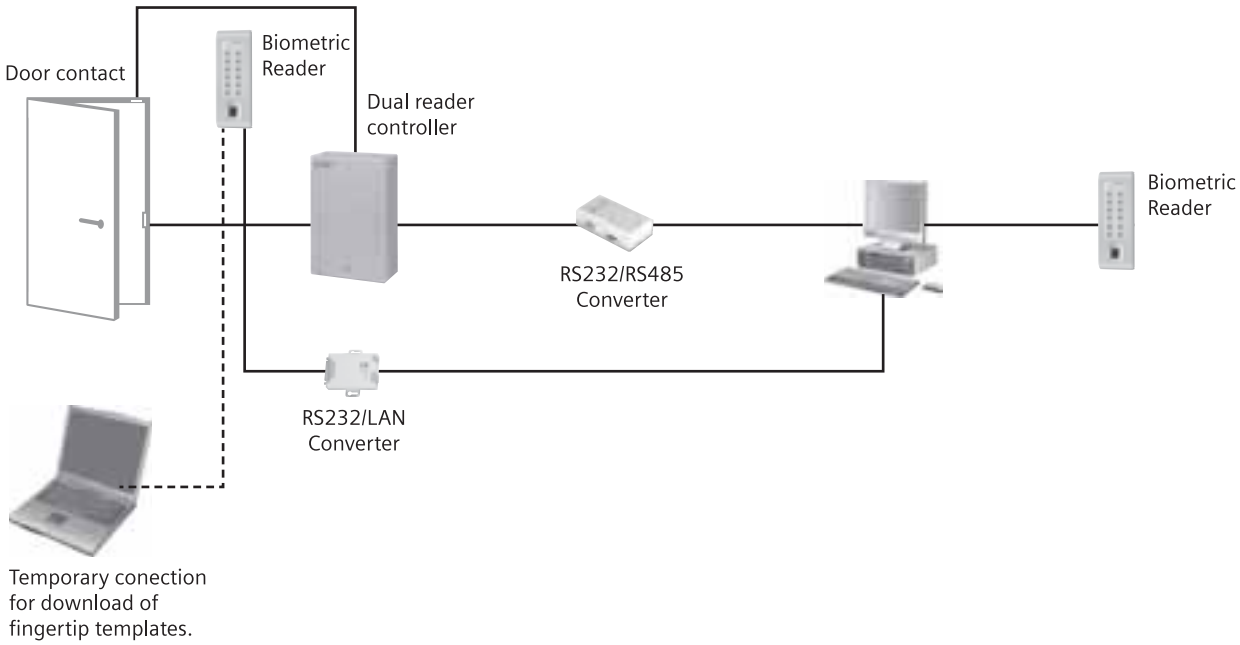
Demo Stands

Type		Order No.
Codoor Demo..	Codoor demo stands	S24246-BBXX
	This is a series of wooden stands that each include a Codoor and a mechanical lock. The following Codoor variants are available: CD4000, FP4000 or PD40-EM. Order them separately using the order information below.	
CD4000 D. S.	Codoor CD4000 demo stand	S24246-F8104-A1
FP4000 D. S.	Codoor FP4000 demo stand	S24246-F8105
PD40-EM D. S.	Codoor PD40-EM demo stand	S24246-F3908-A1

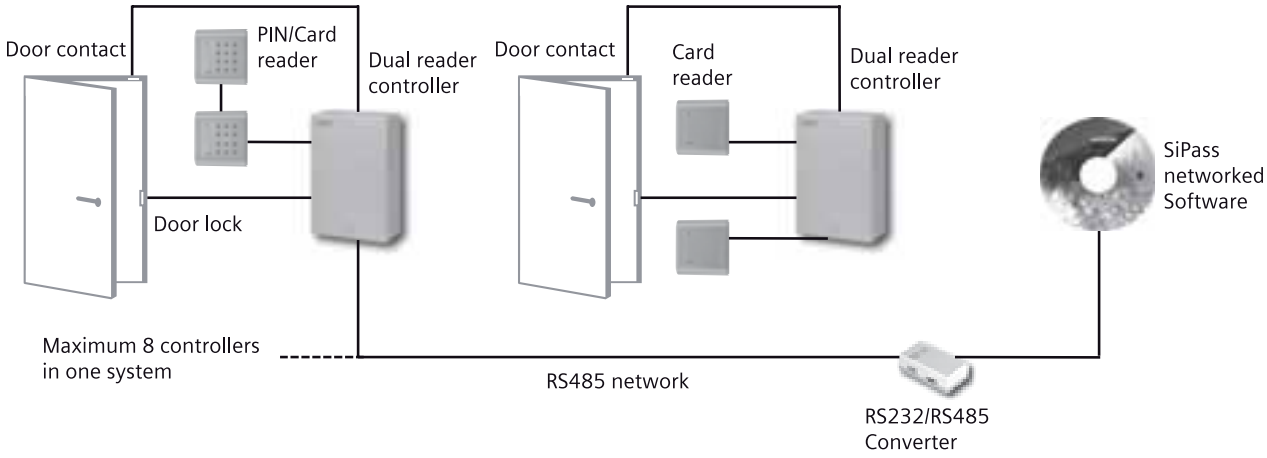
SiPass standalone overview



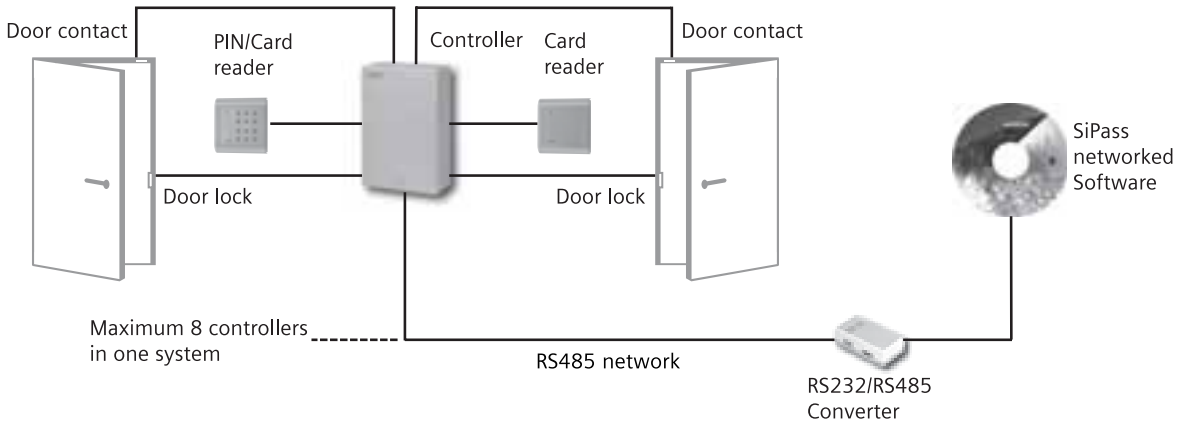
SiPass networked one door mode with finger tip reader



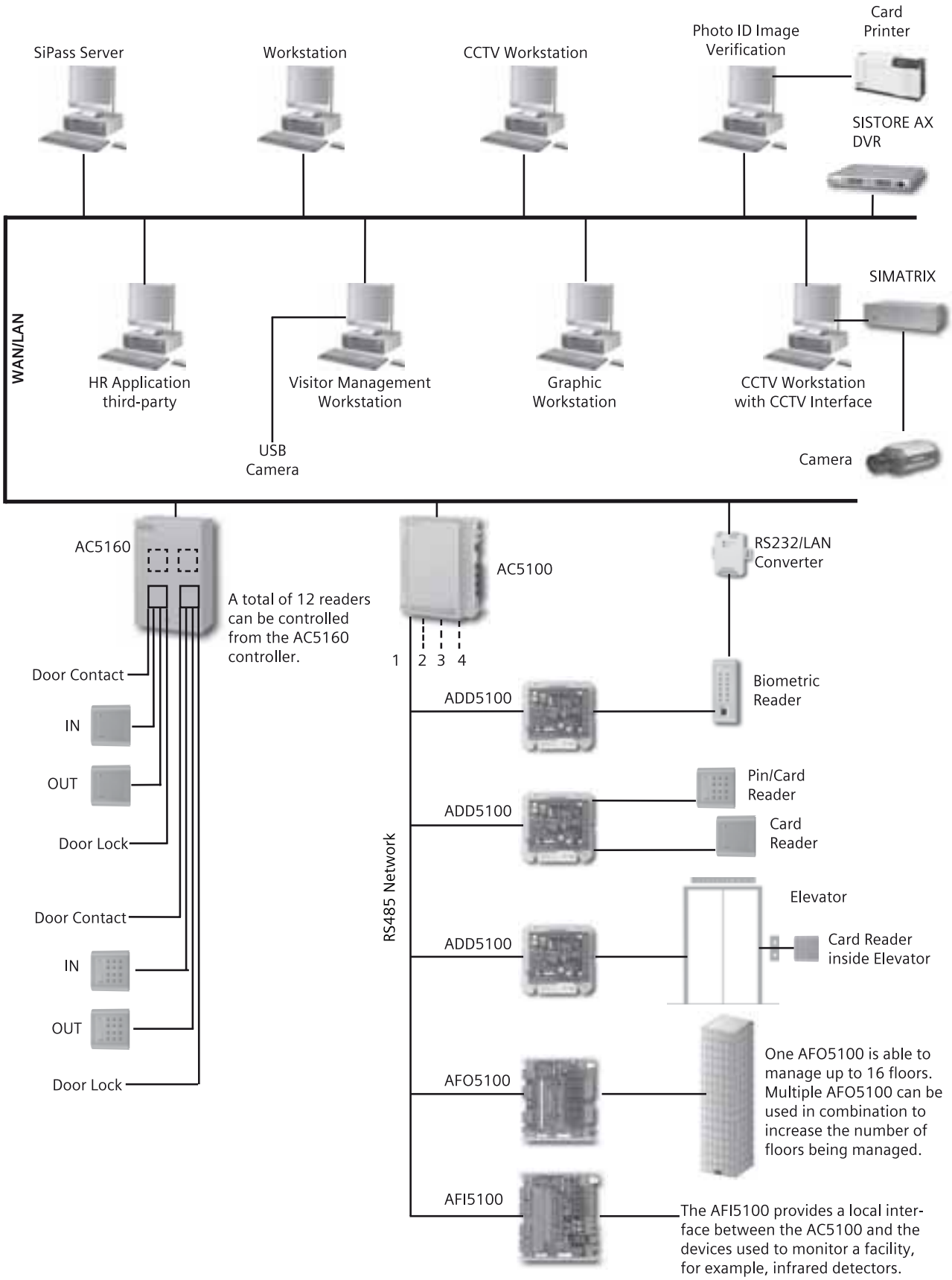
SiPass networked one door mode with and without keypads



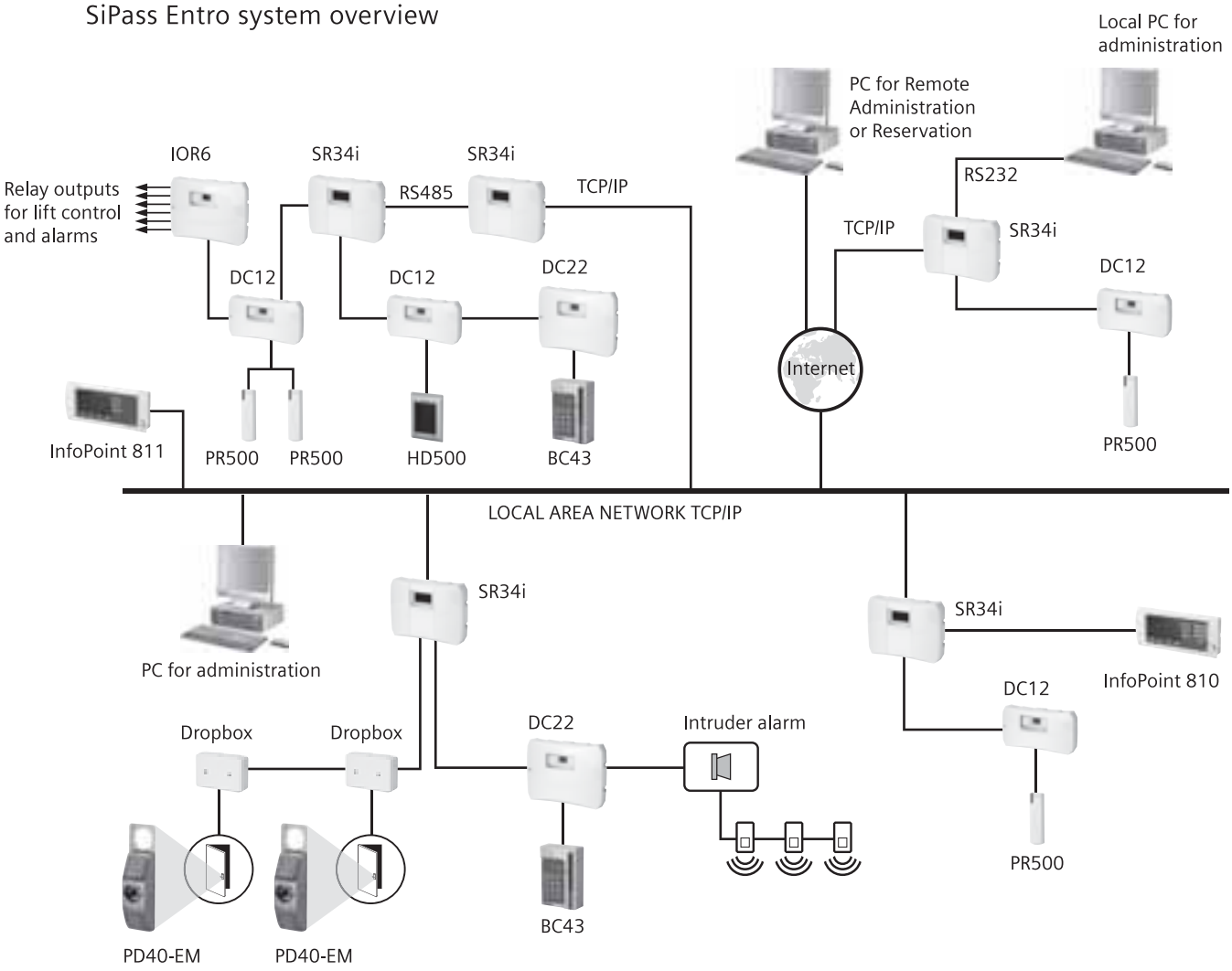
SiPass networked two door mode with and without keypads



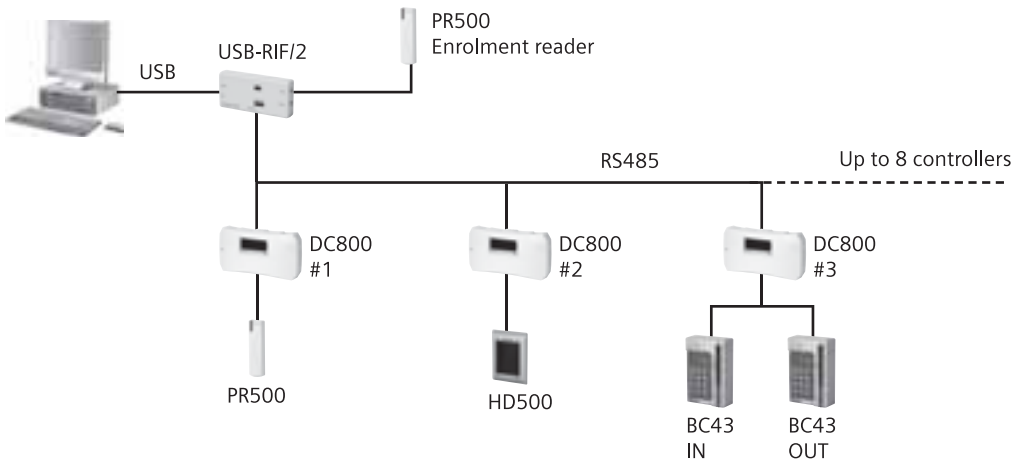
SiPass integrated system overview



SiPass Entro system overview



SiPass Entro Lite system overview



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