



# SIEMENS

Building Technologies



## Access Control

SiPass networked –  
simple & networkable  
for everyday use

# “SiPass networked” Innovative access control

“SiPass networked” is part of the SiPass product range for use in access control installations. It was specifically developed to meet the requirements of everyday applications to control up to 16 doors. The key features of the system are quick installation, proximity readers, an intuitive software user interface and the latest in biometrics technology. It is suitable for use in both private and commercial applications due to the high quality design of the readers and the simple setup via the included software. “SiPass networked” is commonly used in small offices or specific parts of larger buildings. If expansion of more than 16 doors is required, then it is easily possible to upgrade to “SiPass integrated” to control a virtually unlimited number of doors, and is still part of the same SiPass product family.

## Highlights

- Software installation in just 7 clicks
- Plug & Play technology
- Starter kits & extension kits
- Control of up to 16 doors
- Intuitive software operation
- Biometrics integration of the Siemens finger tip reader
- Management of up to 500 people
- Remote programming including firmware updates
- Freely programmable time schedules and holidays
- Integral space for stand-by battery

# Simple, flexible and secure!

## ■ Software installation in just 7 clicks

"SiPass networked" uses the latest in auto-installation technology. The software can be installed with just 7 clicks, without requiring administrator rights for the operating system software.

## ■ Plug & Play technology

All access control components are automatically detected and immediately made ready for operation, including the dual reader controllers and the card readers.

## ■ Starter kits & extension kits

System configuration and ordering is very easy using both starter and extension kits. The starter kit provides everything required to get begin using the "SiPass networked" system, while the extension kits are used to expand the system at any time.

## ■ Control of up to 16 doors

"SiPass networked" can be expanded to a maximum of 8 door control units, which means that up to 16 doors can be monitored and controlled in two-door mode. If all controllers operate in one-door mode (with entry and exit readers), a maximum of 8 doors can be monitored and controlled.

## ■ Intuitive software operation

A simple and logically structured software user interface ensures that the system can be set up and operated without the need for training.

## ■ Biometrics integration of the Siemens finger tip reader

If additional security is required for the most secure areas, "SiPass networked" supports biometrics integration of the Siemens finger tip reader AR6332-BI. The reader can operate either in identification mode – where the user is identified by fingerprint data only, or in verification mode – where a PIN code also has to be entered.

## ■ Management of up to 500 people

"SiPass networked" can be used to process and manage up to 500 people. Adding a person to the system simply involves entering the name, reading in the card number and assigning the relevant time schedule for the specific door.

## ■ Freely programmable time schedules and holidays

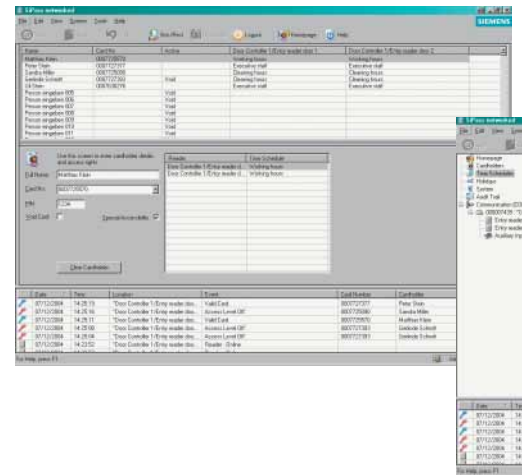
12 time schedules, displayed in a user-friendly graphic view, and 19 holidays can be freely assigned, ensuring a flexible and easy parameter configuration.

## ■ Integral space for stand-by battery

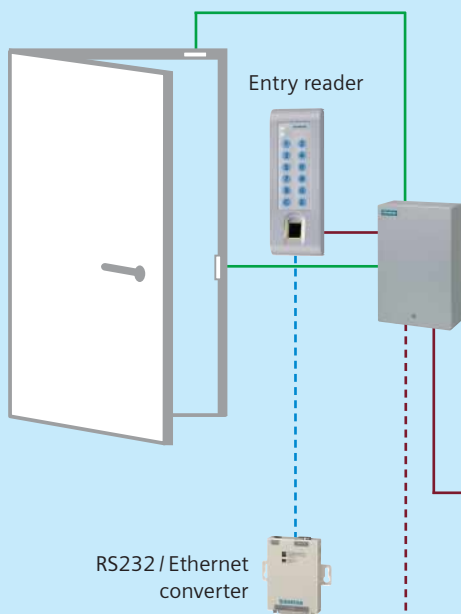
The "SiPass networked" dual reader controller supports the installation of a stand-by battery inside the housing, which ensures continuous system operation in the event of a power failure.

# Innovative operator interface

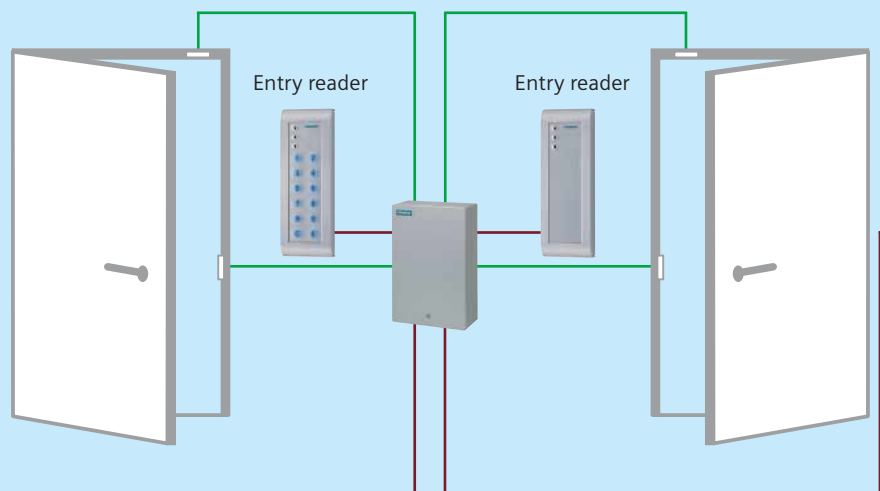
The "SiPass networked" operator interface complies with the latest Windows XP standard, which ensures efficient operation. All data fields are clearly explained. Time schedules can be defined via a user-friendly graphical overview. A tree structure on the left of the screen offers easy program navigation, and provides users with information on their position in the operating software at a glance. The latest alarms and events are always displayed in the lower part of the screen – this ensures that important security messages cannot be missed.



## Dual reader controller in one-door mode with integrated finger tip reader (up to 8 doors)

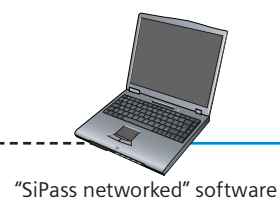


## Dual reader controller in two-door mode (up to 16 doors)



Up to a maximum of 8 dual reader controllers can be connected together using the RS485 bus.

- RS485
- RS232
- Ethernet
- Entry or exit



"SiPass networked" software



RS232/RS485 converter

# Available kits

“SiPass networked” is available in two kit forms: the starter kit and the extension kit. Both of these kits are available with or without card readers. Two different reader technologies are available for kits that include card readers – one is designed for Siemens’s cards and the other allows interaction with Mifare cards, for cashless purchases etc.

## Starter kit without card reader

- Dual reader controller
- Software
- Manual
- RS232/RS485 converter

## Extension kit without card reader

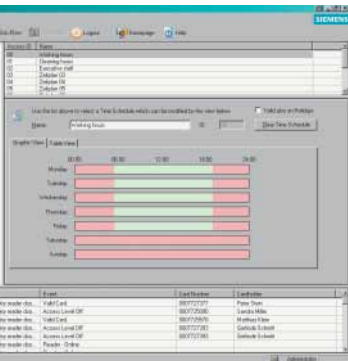
- Dual reader controller

## Starter kit with card reader

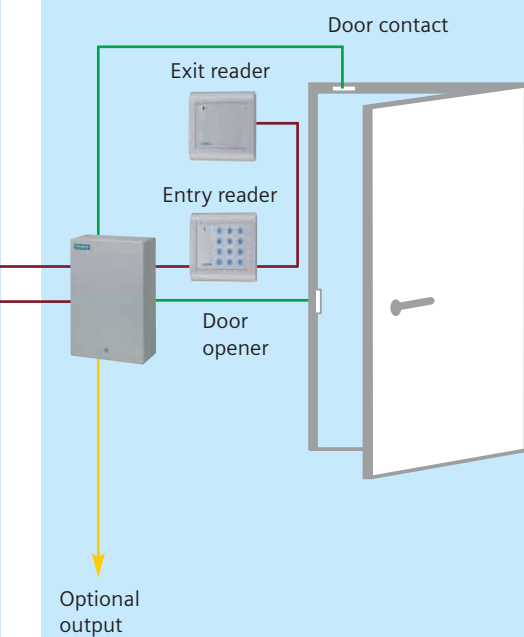
- Dual reader controller
- 20 x ID cards
- Software
- Manual
- RS232/RS485 converter
- 2 card readers (-CP or -MX)

## Extension kit with card reader

- Dual reader controller
- 2 card readers (-CP or -MX)



### Dual reader controller in one-door mode (up to 8 doors)



In one-door mode, the optional output can be used to indicate the following events:

- Primary power failure
- Invalid card
- Battery charging
- etc.



**AKNxxx-CP**  
Kit with 2 proximity card readers 125 kHz (with or without keypad)



**AKNxxx-MX**  
Kit with 2 multi-function card readers 13.56 MHz (with or without keypad)

### Overview of kits

	No card reader	Card reader without keypad	Card reader with keypad
Starter kit	AKN4100	AKN4110-CP AKN4110-MX	AKN4120-CP AKN4120-MX
Extension kit	AKN4200	AKN4210-CP AKN4210-MX	AKN4220-CP AKN4220-MX

# “SiPass networked” – simple yet powerful



Office building



Secure facility



Medium sized business

## Audit trail function

The audit trail function can be used to save up to 500 system events. It is possible to freely define which events are stored in the ring memory. If a PC is connected, the events are transmitted to the software immediately and entered in the audit trail log file.

## One-door or two-door mode

The door control unit supports the following operating modes:

- One-door mode with entry reader
- One-door mode with entry and exit reader
- Two-door mode, each door with one entry reader

These operating modes enable the user to configure the access control system to meet individual requirements.

## Reader modes

Card readers with keypads can be operated in the following modes:

- Read card
- Enter PIN
- Card or PIN
- Card and PIN

## Output control/relay

If the dual reader controller is operated in one-door mode, the second relay can be switched by various events. This can be used for interaction with an intrusion system or digital recorder, allowing SiPass to become a primary component of the security system.

## Reader PIN code

Each card reader can be assigned a numeric code (Daily PIN Code), which can be used to open the door. The code is activated via a time schedule.

## Wiegand interface for card readers

Card readers can also be connected to “SiPass networked” via a Wiegand interface. It should be noted that in this case the connection between the controller and the card reader is not

monitored. If the line is interrupted, no error message is generated. The Wiegand format can be individually configured for each installation, allowing a wide range of card readers to be supported.

## A system that expands to meet requirements

Extension kits make it easy to expand the system at any time. If control and monitoring for more than 16 doors is required, users can easily transfer the system with existing hardware to “SiPass integrated”. The advanced central controller (AC5100) then provides intelligent control of all reader controllers in the access control system. All “SiPass networked” hardware and the database can be upgraded to “SiPass integrated”.

## Different reader technologies

Two different non-contact reader technologies are available: 125 kHz for reading unique Siemens proximity card serial numbers or 13.56 MHz for reading unique Mifare card serial numbers. The card is simply waved in the electric reading field of the card reader. Data from the chips implemented in the card are read, detected and evaluated by the system.

## Integration of the Siemens finger tip reader

“SiPass networked” supports the integration of the Siemens finger tip reader AR6332-BI. The reader can be operated in either identification mode (fingerprint only) or verification mode (fingerprint and PIN). BIO FTM software can be used to read in fingerprints and to download encoded information to the finger tip reader.

## Intelligent dual reader interface for easy assembly

Simple connection ensures error-free installation of dual reader interface and card readers. The dual reader controller housing already has space for the installation of a stand-by battery for use in case of power failure.

# Technical overview

## SiPass networked kits AKNxxxx-xx

### System

Hardware installation	Plug & Play
No. of controllers per system	8
No. of readers per system	max. 16
Time schedules	12 (plus never / always)
Holidays	19
Door configuration	One door with in/out-reader or two doors with in-readers
Reader mode	via time schedule
Door release	via time schedule
Daily code for opening door	via time schedule
No. of ID cards	500
No. of audit trail events	500
Import / export of cardholder data	Yes
Backup / restore of system data	Yes
Daily event text file	Yes
Reader bus	monitored
Additional power supply for card reader	Yes

### Inputs

REX (request to exit)	2
Door contact	2
Anti-tamper contact (housing)	Yes

### Outputs

Door opener	2
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### Languages

German	Yes
English	Yes
French	Yes
Spanish	Yes
Dutch	Yes
Polish	Yes



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