



AC5100 Advanced Central Controller

SiPass®
integrated

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- Support for up to 64 doors and 1,000,000 cardholders
 - 4 x Field Level Network (FLN) channels for local device connection

An important component of any security system is the controller. As the main hardware component in your access and security network, the primary function of the controller is to maintain your facility's integrity. Making countless decisions on access attempts in real-time, it must be reliable, consistent and unflinching. The Advanced Central Controller (ACC) provides all of these attributes.

The ACC is a high performance access control and security field panel. The ACC is installed as an essential component of a Siemens integrated access control and security solution. The ACC is capable of hosting multiple access control and security applications from a single panel, including access management for up to 64 doors and 1,000,000 cardholders.

The ACC processes all events locally, independent of the host system. This ensures system integrity even in the unlikely event of communications failure with the host. The ACC receives cardholder information from a connected Reader Interface Module (RIM) when each access attempt is made. The ACC then verifies this information and if the appropriate privileges have been assigned to the cardholder, the ACC permits the door to be opened.

Features

- Support for up to 64 doors
- 4 x Field Level Network (FLN) channels for local device connection
- 1,000,000 cardholder database
- Multi-tasking, microprocessor-based platform
- 32-Bit Processor (50MIPS)
- 64MB RAM
- Diagnostic port for real-time system maintenance
- Flash memory for remote firmware updates
- Ethernet port for connection to the host system using TCP/IP
- Configurable RS-232 / RS-485 / RS-422 port for high-level interfaces
- Real-time clock battery
- Local tamper input
- Local alarm output (open collector)
- 21 status LEDs

Description

The ACC can be programmed with up to 1,000,000 cardholders and will grant access when a cardholder presents a valid access card at a secure door.

The ACC has been specially designed for maximum flexibility, and provides four separate Field Level Network (FLN) channels. Each FLN is capable of hosting up to 16 local devices for the control of access, monitoring input devices or controlling output devices.

The ACC hosts a diagnostic port that allows a direct connection to its microprocessor to facilitate the download of operating instructions (firmware). Firmware updates are made without having to visit the controller cabinets.

To facilitate communications with the host system, the ACC provides a 10/100MB Ethernet connection. This allows communications over any WAN or LAN where devices on the network can be assigned a unique IP address. This type of communication ensures the fastest possible transaction times between the host system and ACC field panels.

To ensure that the ACC always monitors the access and security of an enterprise, it provides a port for the connection of a backup battery. During those times of power failure, the backup battery will permit the ACC to maintain the integrity of the access control and security system.

The ACC hosts a Tamper input that can be used to detect if the cabinet in which it has been mounted has been opened. It also provides an alarm output to visually or audibly sound an alarm when security has been breached.

Technical data

Power Supply

Operating Voltage	24 VDC +20% -10%
Consumption	Max. 10W fully loaded (with no battery charging)
RTC Battery	3.0V type CR2032

Communication Interface

1 x BLN (Building Level Network)	10/100MB Ethernet (RJ-45)
1 x BLN	RS-485 (not active)
4 x FLN (Field Level Network)	RS-485 (16 local devices max. on each FLN)
1 x Diagnostic/ Parameterisation	RS-232 (RxD, TxD, GND, RJ-12)

Inputs

1 x Tamper Input	Internally supplied, unsupervised
1 x Backup Battery	24 VDC

Outputs

1 x Alarm Output	Open-Collector, 12 VDC / 100 mA
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Dimensions (H x W x D)

	291mm x 246mm x 98mm 11.46" x 9.69" x 3.86"
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Environmental

Temperature	Operation: 0 °C to 50 °C / 32°F to 122°F Storage: -10 °C to 70 °C / 14°F to 158°F
Humidity	5-90% (non-condensing)

Details for ordering

Type	Part no	Designation	Weight
AC5100 ¹	6FL7820-8BA10	Advanced Central Controller, 24 VDC	2,67 kg
CBL-010	6FL7820-8FB10	Parametrization cable ACC (RJ45 –Sub-D female 9 Pin)	0,2 kg
ACK5110	6FL7820-8FB11	Connection cable Modem - ACC (RJ45 – Sub-D male 25 Pin)	0,2 kg

¹ Former type designation: ACC-010

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