SIEMENS

AC5100

SiPass integrated

Advanced Central Controller (ACC)

- **Central controller for SiPass integrated access control systems**
- **Support for 500,000 cardholders**
- **Support for up to 64 doors with SiPass integrated V2.11 and V2.2**
- **Support for up to 96 doors with SiPass integrated V2.3 or higher**
- **Up to six FLN (Field Level Network) channels (RS485) for local device connection**
- **Up to 16 local devices can be connected to each FLN**
- **BLN (Building Level Network) port for communication with the Host System via Ethernet**

The AC5100 is the main hardware component of the SiPass integrated system. It represents the interface between the SiPass integrated Server and the local field level devices (e.g. ADD5100, AFI5100 and AFO5100). The ACC receives cardholder information from a connected Reader Interface Module each time an 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.

Performance
The AC5100 is a high-performance controller featuring high reliability and operational safety which makes it ideally suited for access control systems.
The ACC processes all events locally, independent of the host system. This ensures system integrity even in the unlikely event of communication failure with the host.

Fast response time
The AC5100 has a very short response time and performs reliably and efficiently even at peak times. Long queues at the main exit will thus become a thing of the past.

Alarm signalling
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.

Hardware
The AC5100 is a state-of-the-art hardware component which will still meet all technological requirements placed upon controllers in the future.

Software
Within SiPass integrated firmware updates of the local devices are made without having to visit the controller cabinet or the local devices.

Technical data

Operating voltage	24 V DC +20% / -10%
Power consumption	Max. 10 W (no battery charging)
Operating temperature	0 – 50 °C (32 – 122 °F)
Storage temperature	-10 – +70 °C (14 – 158 °F)
Humidity	5 – 90% (non condensing)
Dimensions (L x W x H)	291 x 246 x 98 mm (11.46" x 969" x 386")
Weight	2.67 kg
Display elements	21 status LEDs
RTC battery	3.0 V, type CR2032
Backup battery	1 x 24 V DC or 2 x 12 V DC batteries Batteries should support an interrupted charging operation. Alternatively, the power supply should support the battery charging.
Tamper input	Internally supplied Unsupervised
Alarm output	Open collector
RJ45 port	BLN interface 10/100 MB Ethernet
6 x RS485 port	FLN interface 2-wire, max. 16 devices per FLN bus. See also FLN device load calculation. **4 x FLN interface** SiPass integrated **V2.2 or lower** connection of up to 64 FLN devices **6 x FLN interface** SiPass integrated **V2.3 or higher** connection of up to 96 FLN devices
RS232 port	Diagnostic and configuration port (RxD, TxD, GND, RJ12)
RS-232 modem port	
Processor	32-bit (50MIPS)
Main memory	64 MB
Flash memory	Firmware update
European Directive „Electromagnetic Compatibility“	Emitted interference: EN 55022/A2 Class B Interference resistance: EN 50130-4/A1
UL Standard	UL 294 Access control units Details can be found in the UL directory (file number BP9490).
C-Tick	Standard for Australia and New Zealand (equivalent to EN55022 of the European Directive).

Field level device load calculation

FLN device	Configuration units
ADS5200 (SRI)	1 load
ADD5100 (DRI)	2 loads
AFI5100 (IPM)	4 loads
AFO5100 (OPM)	4 loads (2 when used for lift control)
ADE5300 (ERI)	8 loads
AFO5200 (8IO)	2 loads
FLN channel	**Maximum configuration unit value**
FLN #1	16 loads
FLN #2	16 loads
FLN #3a/3b	16 loads (any arbitrary splitting)
FLN #4	16 loads
BLN	16 loads
ISA/ISB	16 loads

Example of a load calculation:
ADE5300 + AFI5100 + 2 x ADD5100 = 16 loads

Details for ordering

Type	Part no	Designation	Weight
AC5100	6FL7820-8BA10	Advanced Central Controller Replaces type designation ACC-010	2.67 kg
		Accessories, not included in scope of delivery!	
CBL-010	6FL7820-8FB10	Configuration cable for ACC5100 (RJ12 – 9-pin Sub-D connector)	0.2 kg
ACK5110	6FL7820-8FB11	Connecting cable modem / ACC (RJ45 – 25-pin Sub-D connector)	0.2 kg

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