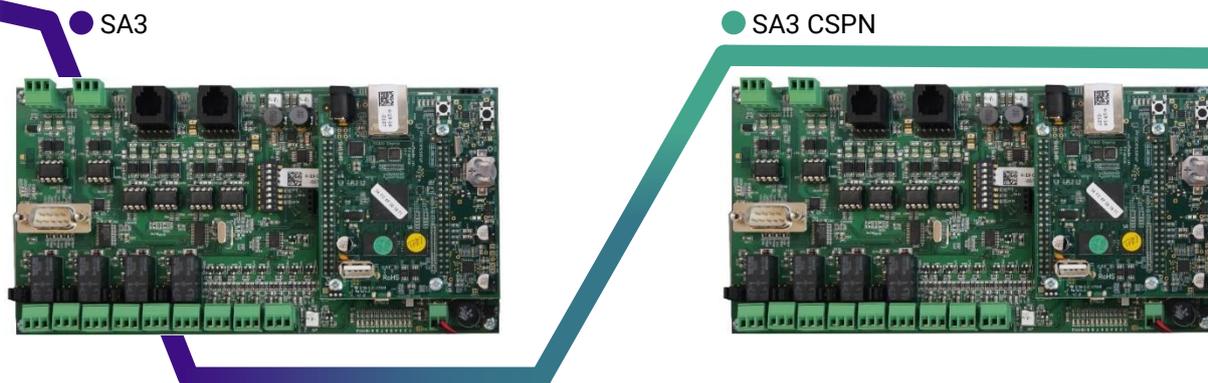


SA3/SA3 CSPN concentrators

Product description

The SA3 and SA3 CSPN boards complete the ALCEA range of programmable smart concentrators.

Designed to meet current cyber requirements in the long term, the SA3 can easily be upgraded to the CSPN configuration, providing enhanced security without sacrificing operational efficiency.



Benefits

- **Configuration and updating from the ALWIN GUI:** all implementation or configuration of SA3 boards can be done directly from the ALWIN software interface, thus avoiding the need to intervene on each board individually.
- **End-to-end data encryption:** all information exchanged between the various access control elements is now encrypted end-to-end using an algorithm that complies with RGS (French General Security Reference) requirements. Sensitive data is therefore protected against any malicious activity.
- **TPM-type hardware safe (EAL4+ certified):** the TPM safe secures the certificates and encryption keys transmitted by the server.
- **Radius 802.1X authentication standard:** the SA3 is compatible with the IEEE 802.1X standard, guaranteeing authentication to network infrastructure equipment, regardless of the type of connection. This standard certifies that the SA3 helps to limit the risks of logical intrusions and cybercrime.
- **Maintenance and installation:** maintenance and installation are simplified thanks to the plug-in terminal blocks on which all connections (readers, secondary bus) are located.
- **Multi-technology card:** the SA3 has the capacity to simultaneously manage several technologies—proximity, MIFARE, DESFIRE, biometrics, etc.

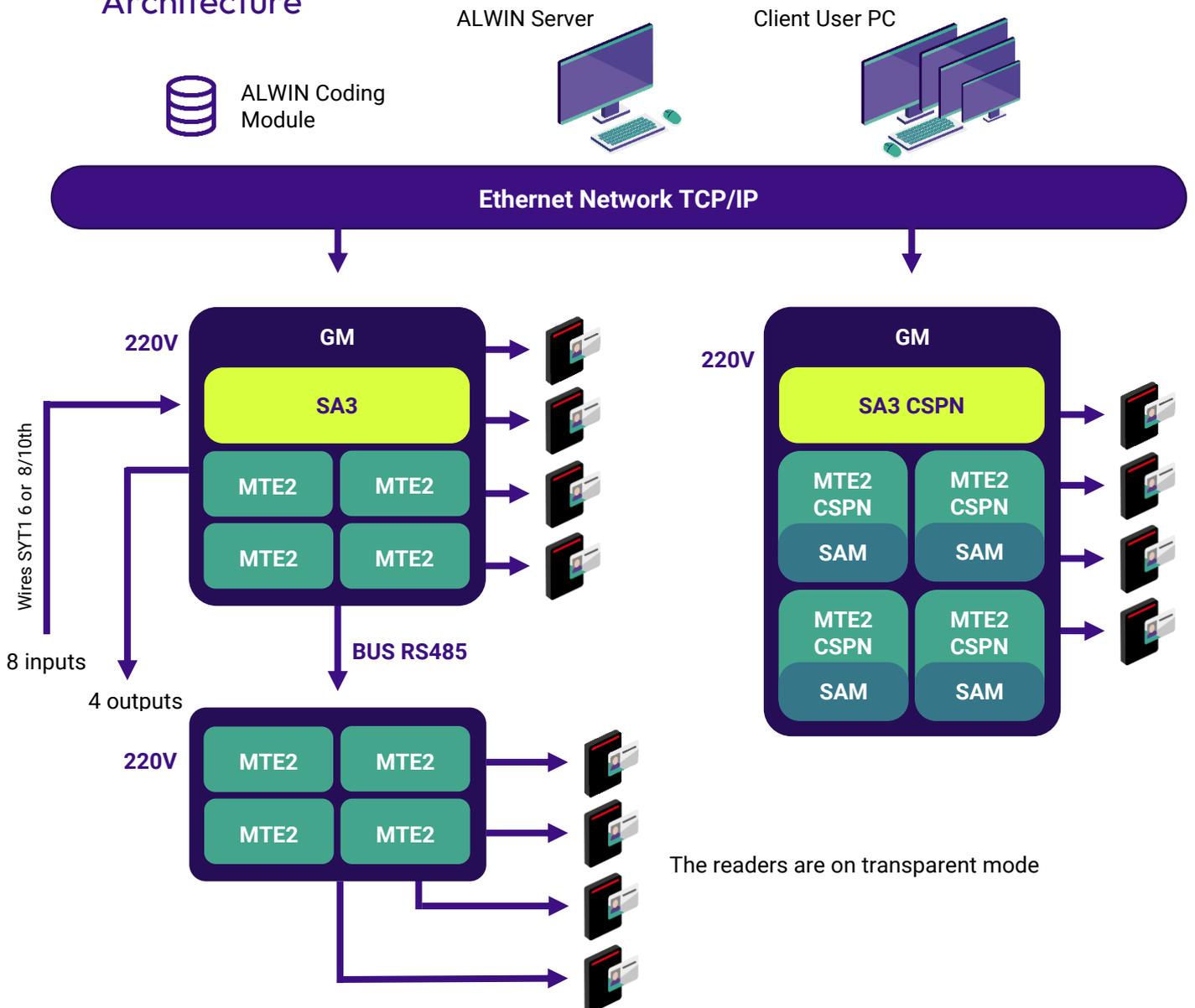
Specifications

FUNCTIONAL SPECIFICATIONS	
Number of badges	Up to 100.000
Maximum number of events in the event of server communication failure	Up to 100,000
Number of integrated 4-state inputs	8
Number of integrated relay outputs	4 relays and 2 open collector outputs
Number of expansion cards (MTE2 and CE)	16 cards maximum. 8 MTE2 and 8 CE
Maximum number of inputs	152 (x8 SA3 ; 8*6 MTE2 ; 8*12 CE12/4)
Maximum number of outputs	140 (x4 SA3 ; 8*1 MTE2 ; 8*16 CE16S)
Number of schedules	128
Number of routines (programmable automations)	64 (depends on routine load)
Number of anti-intrusion groups	256
HARDWARE SPECIFICATIONS	
Number of RS485 buses	4 (2 terminal blocks and 2 RJ11)
Self-protection	1 input with strap 1 3-axis accelerometer (tamper monitoring, excessive vibration)
Cryptography	Hardware cryptography accelerator (AES, SHA, RNG)
Ethernet	1 Ethernet port 10/100 Mbps
USB	2 USB Device & Host ports
Clock	1 Real-time clock backed up by lithium battery
Security	TPM (Trust Platform Module)
Monitoring	Input and output status LEDs
POWER SPECIFICATIONS	
Power supply	12 VDC to 14 VDC
Maximum consumption: (Without touch screen)	450 mA
RS485 bus length	Between the MTE card and the reader: maximum 300 meters
	Between the SA3 hub and the MTE card: maximum 1,200 meters
SOFTWARE SPECIFICATIONS	
Protocol	TCP/IP (fixed addresses) UDP, ICMP, SFTP
DHCP management	Fixed IP address assignment via DHCP
Security and authentication	Integrated Linux firewall, 802.1.x supported, TLS 1.3 (communication with server) SSH with certificate Encrypted SD AES128 encryption (RS485 SA3+ communication to MTE2)

**IP flows are authenticated and protected in terms of confidentiality and integrity.*

MECHANICAL SPECIFICATIONS	
Height	35.0 mm
Width	205.5 mm
Length	107.0 mm
Environment	Operating: de -20 to 60° C. Storage: de -10 to +70°C. Humidity: 0 to 95% non-condensing.
Compliance	BT, RoHS, DEEE, CEM, Reach

Architecture



Sales principle



- Hub boards, door controllers, expansion boards, and cabinets are **delivered individually**, and the professional assembles them as needed.
- Hub boards, door controllers, and expansion boards are **delivered assembled and pre-wired** in the enclosures and **tested** by us. Each enclosure configuration corresponds to a unique item code, taking into account the desired boards and accessories.



[Electronic Boxes Product Sheet](#)

References

REFERENCES	DEFINITION
01-01-0025-S	Concentrator board SA3
GM-AL23012-SA3	Concentrator board SA3 in GM (big box). The boxes are delivered with all the ordered equipments.
RACK-AL23012-SA3	Concentrator board SA3 in a rack
PM-AL23012-SA3	Concentrator board SA3 in PM (small box)
03-02-0242-KIT	RAIL Din adapter kit for SA3 controller
PM-AL23012-SA3-M	Concentrator board SA master dedicated to encoding SAM, delivered in PM (small box) with a USB adaptor SIM and 3 cards SAM/SIM for a centralized distribution of the keys (max 5000 SAM slaves)
07-01-0026	CSPN firmware for concentrator SA3