DDS
Building Security Together

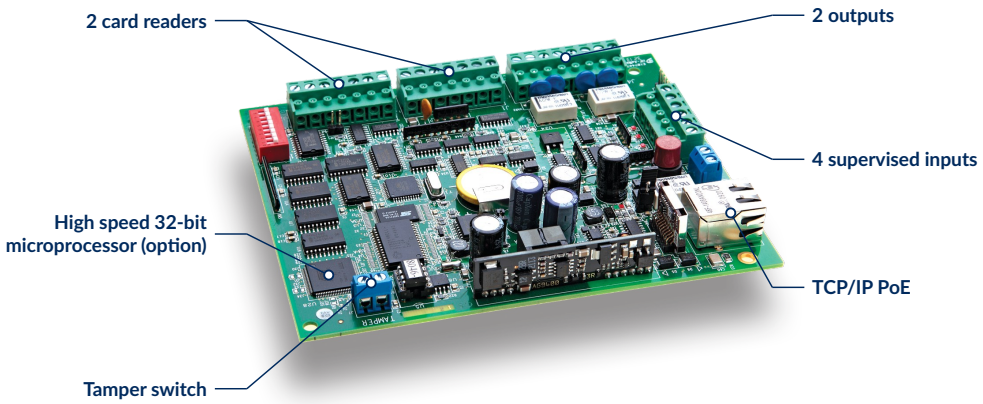
SMART

1-door Access & Alarm PoE Controller

Overview

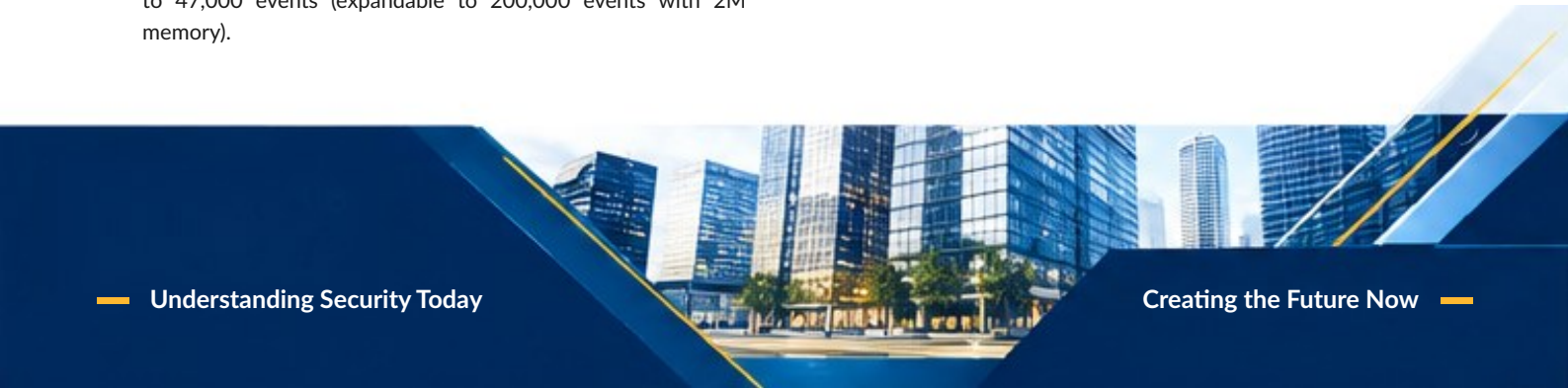
The SMART controller is a one-door PoE access control system designed for high security environments. It suits all sizes of installations. This innovative controller is powered directly by the TCP/IP cable and fits DIN rail installations.

- **Up to 163,000** CARDHOLDERS
- **Up to 200,000** EVENTS
- **1** DOOR
- **2** READERS
- **4 + 1** INPUTS
- **2** OUTPUTS
- **Yes** POE
- **On-board** TCP/IP
- **1 + 1 (option)** PROCESSORS



Benefits

- **Embedded 12 W PoE power supply (IEEE 802.3af).** The controller takes its required power directly from the TCP/IP cable. The energy produced is sufficient to power up to two card readers and one 500 mA door lock/mag lock, as well as to charge a 12 V/1.2 Ah lead-acid battery. The latter supplies the entire system during power outages. The SMART-PoE can thus be installed in the door vicinity, saving on wiring cost.
- **Maximum back-up time** with a new 12 V/1.2 Ah lead-acid battery, two DL-12 prox readers (60 mA) and constant communication with a host through 100 Base-T TCP:
  - During stand-by mode without access: 2 h 15 min
  - With 200 door openings (500 mA door lock): 2 h
  - With a constantly activated mag lock (500 mA): 1 h 15 min
- **Management capacity of two readers of any technology:** the SMART monitors the entrance/exit of one door for up to 44,000 cardholders (expandable to 163,000 cardholders with 2M of memory). Depending on its configuration, it can store up to 47,000 events (expandable to 200,000 events with 2M memory).
- **Controls up to 4 supervised inputs** (four-state inputs): door contact, RTX button and two alarm inputs. It manages two relays and is connected to the main server via the TCP/IP network.
- **Autonomous decisions,** such as door opening, outputs and reflexes activation, without PC intervention.
- **Simple programming** and quick set-up.
- **Easily upgraded:** its flash memory eases firmware downloading.
- **Ergonomics and standard size:** the controller can be installed on a standard DIN rail.
- **New technologies against electromagnetic interference** (6-layer PCB, protection components on inputs/outputs) further increase the system reliability.
- **Easily integrated** within BMS external applications and installations including other DDS controllers.

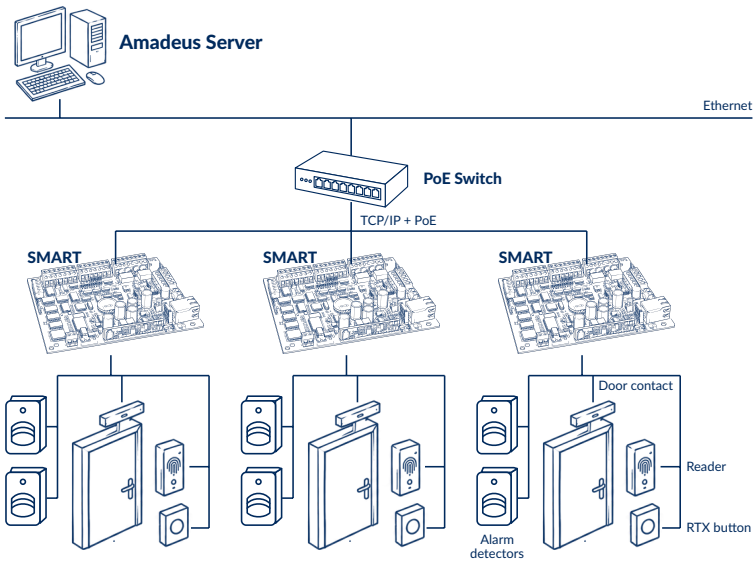


SMART capacities according to the RAM

RAM	MAX. CARDHOLDERS	MAX. EVENTS
512K	44K	47K
2M	163K	200K

512K RAM as standard, expandable to 2M.

Architecture



Technical specifications

Board dimensions	**149 × 122 mm**
Power supply	**By IP cable (PoE)**
Consumption, without reader	**300 mA**
Alarm input max voltage	**±30 V**
Operating temperature	**0 °C to +55 °C**
Storage temperature	**−10 °C to +65 °C**
Operational humidity	**10 to 95 % RH**

Approvals

CE RoHS compliant Pb

Key features

POE & POWER

- TCP + PoE on board supplying 12 V/700 mA (e.g. two 12 V/100 mA readers + one 12 V/500 mA door lock). PoE standard IEEE 802.3af
- Built-in charger for 12 V/1.2 Ah lead-acid battery
- Automatic detection of low battery, housing tamper switch, reader's connection and PoE failure

DOOR, READERS & I/O

- 2 readers / 1 door
- 4 supervised inputs
- 2 relays
- LED on inputs / outputs
- Reader sabotage detection
- Multi-technology readers: biometric, smart card, proximity, magnetic, etc.

MEMORY & DATABASE

- Optional second 32 bits CPU
- Real time clock (RTC)
- 1 MB flash memory for application firmware (downloaded from the PC)
- 512K RAM memory (expandable to 2M) for operating database, backed by lithium battery to last for 10 years
- Up to 44,000 cardholders (expandable to 163,000)
- Up to 47,000 events in buffer (expandable to 200,000)

PROGRAMMING & AUTONOMY

- 255 daily programs, 127 weekly programs
- 180 holidays
- 255 reflexes (local & network)
- Autonomous decisions at the local level without degradation of the security standard

COMMUNICATION & SECURITY

- Baud rate from 9,600 to 115,200

INSTALLATION

- Standard dimensions for DIN rail and 19'' drawers
- Removable connectors

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