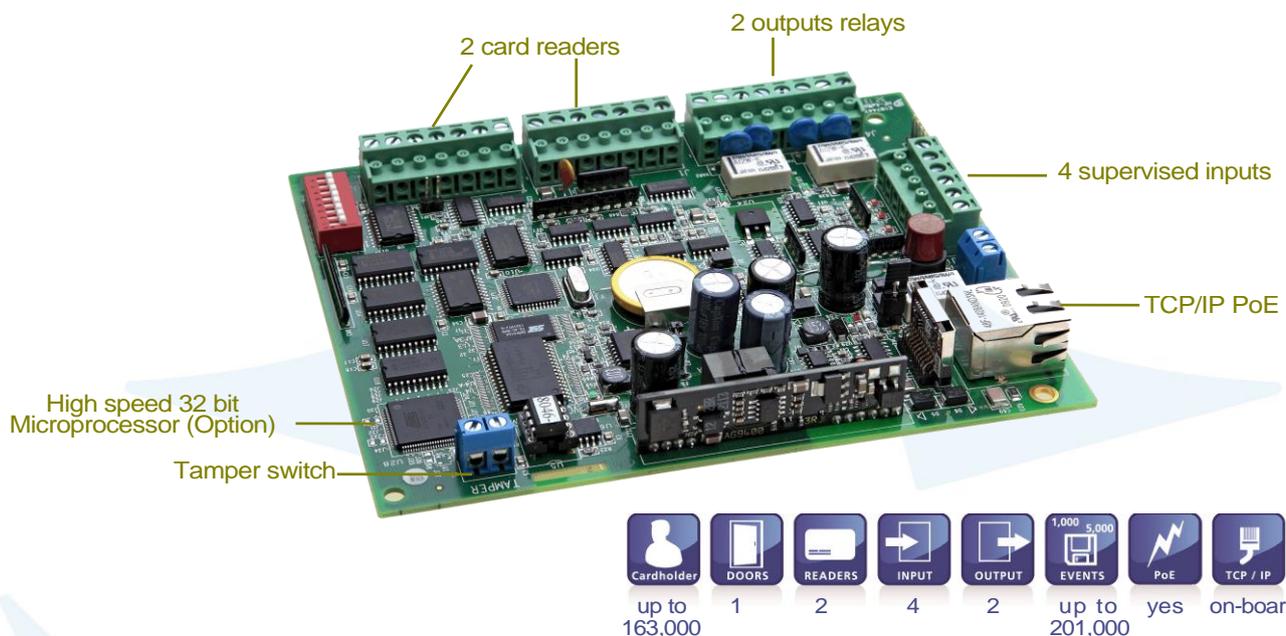


# SMART, one-door access control & alarm PoE controller



## Overview

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

The latest of the DDS products is designed for medium-size projects, as well as for more sophisticated multi-site installations.

## Benefits

Thanks to its **embedded 12W PoE standard power supply (IEEE802.3af)**, 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 500ma door lock/Mag lock, as well as to charge a 12V/1.2Ah lead/acid battery. The latter will supply the entire system during power outages. The SMART-PoE can thus be installed in the door vicinity, saving on wiring cost.

The **SMART controls up to 4 supervised inputs** (four states inputs): door contact, RTX button and two alarm inputs. It manages two relays. The SMART is connected to the main server via the TCP/IP network.

The **controller supports autonomous decisions**, such as doors opening, outputs and reflexes activation..., and this, without PC intervention.

**Programming is simple** and its flash memory eases firmware downloading.

**Due to its ergonomics and standard size**, the controller can be installed on a standard DIN rail.

The **use of new technologies** against electromagnetic interference (6 layers PCB, protection components on inputs/outputs) further increases the system reliability.

The **SMART is easily integrated** within BMS external applications and installations including other DDS controllers.

With a new Lead Acid 12v/1.2AH battery, 2 DL-12 prox readers (60mA), constant communication with an host through 100 Base-T TCP, **the maximum back-up time** is as follows:

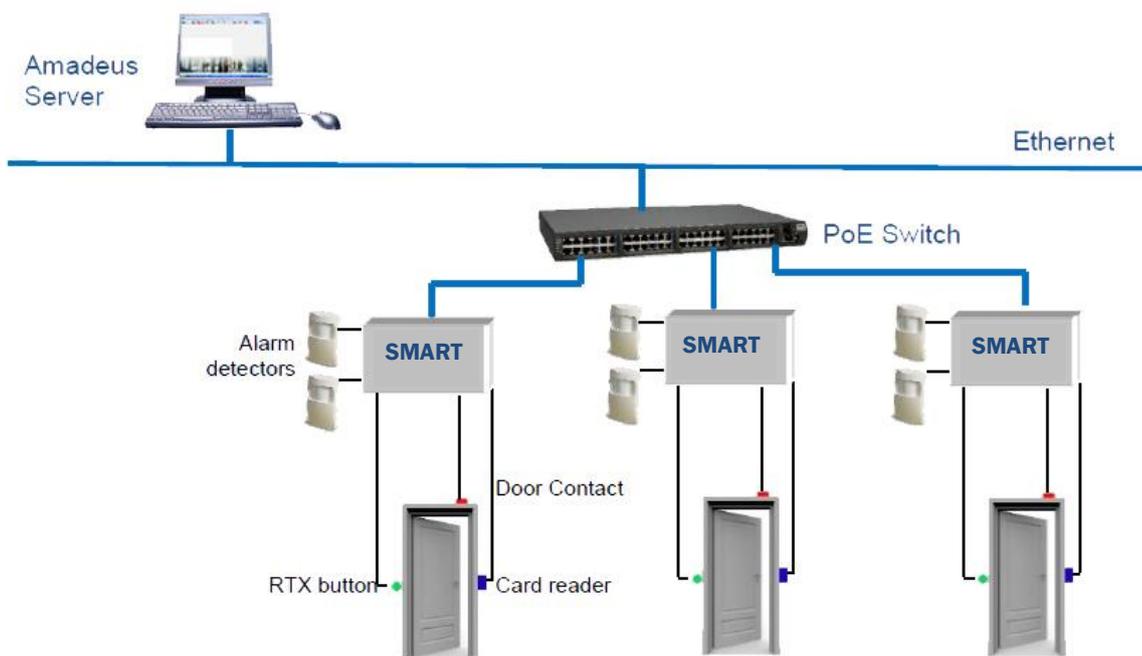
- During stand-by mode without access: 2h15
- With 200 door-opening (500 mA door lock): 2h
- With a constantly activated Mag lock (500mA): 1h15

**With a management capacity** of two readers of any technology, the SMART allows to monitor the entrance / exit of one door for up to 44,000 cardholders (expandable to 163,000 cardholders with 2M of memory - SMART 2M). Depending on its configuration, it can store up to 47,000 events (expandable to 201,000 events with 2M memory).

## Key features

- TCP + PoE on board supplying 12V/700mA (e.g. two 12V/100mA readers + one 12V/500mA door lock). PoE standard IEEE802.3af
- Built-in charger for 12v/1.2Ah lead acid battery
- Standards dimension din rail and 19" drawers
- 2 readers / 1 door
- 4 supervised inputs
- LED on inputs / outputs
- 2 true outputs
- 512K RAM memory (expandable to 2M - SMART 2M) for operating database, backed by lithium battery to last for 10 years
- Up to 44K cardholders (expandable to 163K - SMART 2M)
- Up to 47K events in buffer (expandable to 201K - SMART 2M), (with RAM dynamic allocation)
- 2 processors
- Automatic detection of low battery, housing tamper switch, reader's connection and PoE failure
- Real time clock (RTC)
- 1 MB flash memory for application firmware (downloaded from the PC)
- 255 daily programs, 127 weekly programs, 180 holidays and special days
- 255 reflexes (local & network)
- Removable connectors
- Multi-technology readers: biometric, smart card, proximity, magnetic, etc.
- Autonomous decisions at the local level without degradation of the security standard
- Baud rate from 4,800 to 38,400 Bauds
- Programmable communication encryption

## Architecture



## Technical Specifications

Operating temperature: 0° C to +55° C  
Storage temperature: -10° C to +65° C  
Operational humidity: 10 to 95% RH  
Board dimensions: 149x122 mm  
Housing dimensions: 270x192x55 mm

Power supplied by IP cable (PoE)  
Consumption (without reader): 300mA.  
Alarm inputs max voltage: +/- 30V

Approvals:   