

# Datasheet

## ATRIUM/ A22K-POE - Ultra controller/expander

### Product description

The A22K is our 3rd generation of ATRIUM, featuring high levels of encryption and flexibility. It provides users with full end to end encryption between card - reader - controller and the wider ATRIUM network to ensure cards cannot be cloned and systems cannot be manipulated.

The A22K-POE is a 2-door and 4-reader Controller/ Expander. It can power 2 magnetic locks over PoE and the system capacity is up to 500 doors and 10,000 users.

It also features an auto-detect function for easy installation and use.

### Key features

- 2 doors and 4 readers controller/expander  
*2 Door Read In/Out*
- Area capacity management for social distancing
- 66 Watts PoE enabled
- Includes free software & free app
- Up to 500 doors and 10,000 users & cards

**KRYPTO**  
HIGH SECURITY SOLUTION


**PoE+**  
Power Over Ethernet



 *Certification*

 *DEEE*

**RoHS** *Certification*

 *-22°C to 50°C*



## Communication

### On-board Ethernet:

A22K-POE to A22K-POE (max 50 IP-IP)

**Bus:** RS-485 A22K-POE (max 4 per A22K-POE)

**Auto:** detect hardware modules  
(No DIP Switches)

## Reader Support

OSDP V2 compatible

26, 30 & 44 Bit Wiegand format

Track 2 ABA

Reader & Keypad (Card & PIN)

K2 CDVI Reader or all other CDVI Readers

3rd Party if compatible

## Input Specifications

**Reader Inputs/Ports:** 2 Wiegand readers  
OR 4 RS485 high security readers

**Multi-purpose inputs:** 6  
(12 using zone doubling)

## Output Specifications

### Auxiliary outputs:

1A (12Vdc) Fuseless protection

**Lock outputs:** 2 x (750mA @ 12Vdc)

**Relay outputs:** 2 x Form C relays  
(Dry Contact) 5A @ 250Vac,  
7A @ 125Vac, 7A @ 30Vdc

## PoE - Electrical Specifications

Ultra Power over Ethernet End-Span / Mid-Span PSE

IEEE 802.3at/af PoE standard compliant

Compatible with All IEEE 802.3at/af Powered Devices

**Power input:** 56Vdc

**Power output:** 24Vdc, 66 Watts  
(over RJ-45 Ethernet cable)

**Distance:** up to 100 meters

**Battery backup:** One 12Vdc, 4.5Ah or 7Ah  
gel type battery

