

CDVI ATRIUM 2-Door Access Control Controller

REF. T CDVI



The A22K is a third-generation CDVI ATRIUM 2-door access control controller designed for secure enterprise and mid-market installations. It supports 2 doors and up to 4 readers, enabling either 1-door read-in/read-out or 2-door read-in-only operation, and is paired with CDVI K2 readers, MIFARE and DESFire EV2 credentials to provide AES128 end-to-end encryption between card, reader, controller and the ATRIUM network. Key technical and electrical specifications include Ethernet and RS485 communication, OSDP V2 reader compatibility, Wiegand 26/30/44 formats, Track 2 ABA reader support, 6 general-purpose inputs with 12 via zone doubling, 12 Vdc auxiliary output, 2 lock outputs up to 750 mA at 12 Vdc, 2 Form C relay outputs, and a 120-240 Vac power input with 12 Vdc 7 Ah battery backup support. The controller includes free software and an app, scales up to 500 doors and 10,000 users or cards, and carries CE and RoHS certification with an operating temperature range of -20°C to 70°C.

AES-128

END-TO-END AES-128
ENCRYPTION

SSL/TLS

SECURE HTTPS BROWSER
ACCESS

OSDP V2

OSDP V2 READER
COMPATIBILITY

**500 doors · 10,000
users**

SCALABLE ENTERPRISE
DEPLOYMENT

01 GENERAL

FEATURE	DESCRIPTION
Controller type	ATRIUM A22K · 3rd generation
Target installation	Enterprise-level installations to mid-market
Doors managed	2 doors
Readers supported	Up to 4 readers
Reader modes	1 door read in/out or 2 doors read in only
Encryption	End-to-end AES-128 bit encryption
Software	Free software and free app included
System scale	Up to 500 doors, 10,000 users and cards

02 COMMUNICATION

FEATURE	DESCRIPTION
On-board Ethernet	A22K to A22K · max 50 IP-IP
Bus	RS485 · max 4 A22K per A22K
Module detection	Auto detect hardware modules
DIP switches	No DIP switches required

03 READER SUPPORT

FEATURE	DESCRIPTION
OSDP support	OSDP V2 compatible
Wiegand formats	26, 30 and 44 bit
Card and PIN	Track 2 ABA reader and keypad
Reader brands	K2 CDVI reader or all other CDVI readers
High security credentials	MiFARE and DESFire EV2 with K2 readers
Third-party readers	Supported if compatible

04 INPUT SPECIFICATIONS

FEATURE	DESCRIPTION
Reader inputs	2 Wiegand readers or 4 RS485 high-security readers
Multi-purpose inputs	6 inputs
Zone doubling	12 multi-purpose inputs with zone doubling

05 OUTPUT SPECIFICATIONS

FEATURE	DESCRIPTION
Auxiliary output	12 Vdc · 1 A · fuseless protection
Lock outputs	2 outputs · max 750 mA at 12 Vdc
Relay outputs	2 x Form C relays · dry contact
Relay rating	5 A at 250 Vac, 7 A at 125 Vac, 7 A at 30 Vdc

FEATURE	DESCRIPTION
Power input	120 to 240 Vac · 50/60 Hz
Charging current	250 mA default · 500 mA or 1 A selectable
Battery backup	One 12 Vdc 7 Ah rechargeable acid/lead or gel cell
Recommended battery	CDVI B7AH in Europe
Battery installation	Ensure proper polarity

07 CERTIFICATIONS AND ENVIRONMENT

FEATURE	DESCRIPTION
CE certification	CE marked
DEEE/RoHS	DEEE and RoHS certification
Operating temperature	-20°C to 70°C