

CV5620A-X-XX Secure Access Control Door Reader

CV5620A-X-1F is contactless access control door reader compatible to MIFARE® DESFire® EV1 with AES encryption. It has fast processing speed and high compatibility for most controllers on the market, and it has unique multi-format interface, various output format and transmission form to ease customer's using. It features with build-in TCP/IP interface and relay for door open.

➤ The family members are:

[CV5620A-X-1F](#) ISO 14443A, MIFARE®, MIFARE® DESFire® EV1

Security Features for Mifare DESFire EV1

- ✦ Unique 7 byte serial number for each device
- ✦ Mutual three pass authentication
- ✦ Hardware MIFARE® DESFire® EV1 (DES/3DES, 3k3DES, AES) Data encryption on RF-channel with replay attack protection
- ✦ Data Authentication by 8Byte MAC
- ✦ Authentication on Application level
- ✦ Hardware exception sensors
- ✦ Flexible and self-securing file system

Advantages

- ✦ Vandal resistant for harsh environment
- ✦ 45cm Pigtail or plug connector with screw terminal is available on request
- ✦ Build-in TCP/IP interface and relay on request
- ✦ Various output formats of HEX or DEC for selection
- ✦ Default setting and Reset function for easy customer's using
- ✦ Three-wire control to LED and buzzer
- ✦ Can be installed on metal surface
- ✦ Indoor and Outdoor (IP65, Electric epoxy potted) version for selection
- ✦ Configure by Host Demo or CV5_Reader Config Tool
- ✦ Hardware Watchdog and voltage monitoring enhance the system reliability
- ✦ Firmware can be changed to meet customer's request
- ✦ Built-in memory to enhance security in transaction
- ✦ Supporting multi block transfer
- ✦ Auto PPS (PICC)
- ✦ Authentication key available on request.

Readers and cards require matching keys to function. All RF data transmission between the card and reader is encrypted by using a secure algorithm. The key management system reduces the risk of compromised data or duplicated cards

Product Images



120*75*22mm

1F Anti-vandal reader with keypad

CV5620A-X-1F

Order Code

CV5620A-X-XF

Housing design

F - Outdoor, Anti-vandal

Features

1 - Card + PIN

Interface

2 RS232, Wiegand (26, 34, 42, 50, 58) / Clock & Data 8, 10 / ABA1, 2

4 RS485

T TCP/IP

Specifications

Model	CV5620A-X-XF
Operating Frequency	13.56 MHz
Standard	ISO 14443A, MIFARE®, MIFARE® DESFire® EV1
Readable Cards	Read/Write: MIFARE® Classic 1K, MIFARE® Classic 4K, MIFARE Ultralight®, MIFARE® Pro/Prox, MIFARE® DESFire® EV1
Power Supply	9V DC (9-12V), <150mA
Interface	<ul style="list-style-type: none"> RS232, Wiegand 26, 34, 42, 50, 58 / Clock & Data 8, 10 / ABA1, 2 RS485 built-in TCP/IP
Reading output format	Wiegand 26, 34, 42, 50, 58 / Clock & Data 8, 10 (3 byte, 5byte, HEX, DEC) / ABA1, 2
Keypad output format	4bit, 8bit, wiegand 26, 34, 42, 50, 58 / Clock & Data 8, 10 / ABA1, 2
Keypad	3*4 keypad with backlight
Indicators	2 LEDs and Buzzer controlled by three-wires
Connection	45cm Pigtail or plug connector with screw terminal is available on request
Reading Distance	50 - 100mm (depending on antenna, transponder)
Writing Distance	30 - 50mm (depending on antenna, transponder)
Operating Temperature	-20°C ~ +60°C / -4°F ~ +140°F
Storage Temperature	-20°C ~ +60°C / -4°F ~ +140°F
Operating Humidity	0 ~ 95% relative humidity non-condensing
Housing Material	Zn-Fe alloy
Protection Class	IP65, electric epoxy potted for harsh environment

Specifications are subject to change without notice.

Relative Products for CV5620A-X-XX configuration



CV5_Reader Config Tool is provided for CV5XX0A-X-XX configuration and test. Including set Reader device address, baud rate, interface output format, read card block, config the parameters for auto-read MIFARE® DESFire® EV1, the tool also can control reader's buzzer and led by external setting, furthermore, it features Default Setting and Reset function for easy custom's using.

Hardware Testing Package (HTP)

A plug & play Hardware Testing Package (HTP) is provided to ease your fast testing and evaluation. The package is listed as the table below.

Package list:

- | | |
|--------------------------------------|----------------------------------|
| (1) Testing board | (4) RS232-RS485 converter module |
| (2) Power supply | (5) Wires & Cable |
| (3) Serial & USB Communication cable | (6) Testing card and tags |

Configuration

