

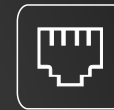
CRYSTAL

TOUCH SCREEN SMART CARD MOBILE KEY READER

3.5" Touch Screen
Waterproof outdoor use



Versatile interfaces
TCP/IP, RS485 OSDP, Wiegand



Mobile Keyless Access Control
BLE & NFC



Proximity RFID smart cards
125KHz, Mifare®, Mifare® Plus, DESFire® EV1/EV2 + SAM



- Mobile key as access credential by smart mobile phone through NFC or BLE
- Advanced secure smart card Mifare®, Mifare® Plus, DESFire® EV1/EV2 with DES/3DES/AES encryption and SAM slot for secure data encryption
- Ethernet TCP/IP with HTTP protocol and web server for web cloud software built no more controller
- User controllable relay output and tamper alarm for electric door lock access control
- Customizable GUI user interface with config tool software for remote setting



Touch screen & friendly indication

With high sensitive touch screen, newly designed CRYSTAL reader present different states and activities with text and symbols in combination. Clear indications are easy identified in different illuminated symbols and adjustable buzzer with five different level of sound in a user friendly way.

Advanced secure

CRYSTAL read CSN or encrypted protected data from 125KHz & 13.56 MHz contactless smart cards utilizing key diversification and mutual authentication routines. It can be equipped with one or more SAM modules for secure data encryption when encrypted

3-Authentication

CRYSTAL support secure level dual authentication of identity supported through combined contactless card or smart phone mobile key and entry of personal identification number (PIN) through an integrated 12-key mechanical or touch keypad.

Universal compatibility

CRYSTAL offer universal compatibility with most access control systems, which provide multiple communication interfaces inbuilt in the same product from Wiegand 26-256 to RS485 with industry-standard Open Supervised Device Protocol (OSDP) for secure and bi-directional data communications, offer universal compatibility with most especially well-known access control systems.

Protection against destruction

To protect against tampering, tamper alarm can activate local output on reader and transmit as a command to overall unit accorded to actual protocol specification. It can't be manipulated without providing tamper alarm when splitting or breaking away from the wall.

CRYSTAL reader for general purpose applications

CRYSTAL touch screen is versatile smart card reader with complete reader functionality and flexible features in perfect combination of reading technologies and communication choices, with rough and elegant design for both indoor and outdoor applications, optimally designed for access control security, smart card & NFC payment and IoT smart card reader, cloud server managed reader in commercial, hospitality, universities, sports stadiums, retails, finance, high security objects and residential.

PC/Cloud server managed system

Embedded web server with TCP/IP HTTP protocol supported, and relay output, no more controller

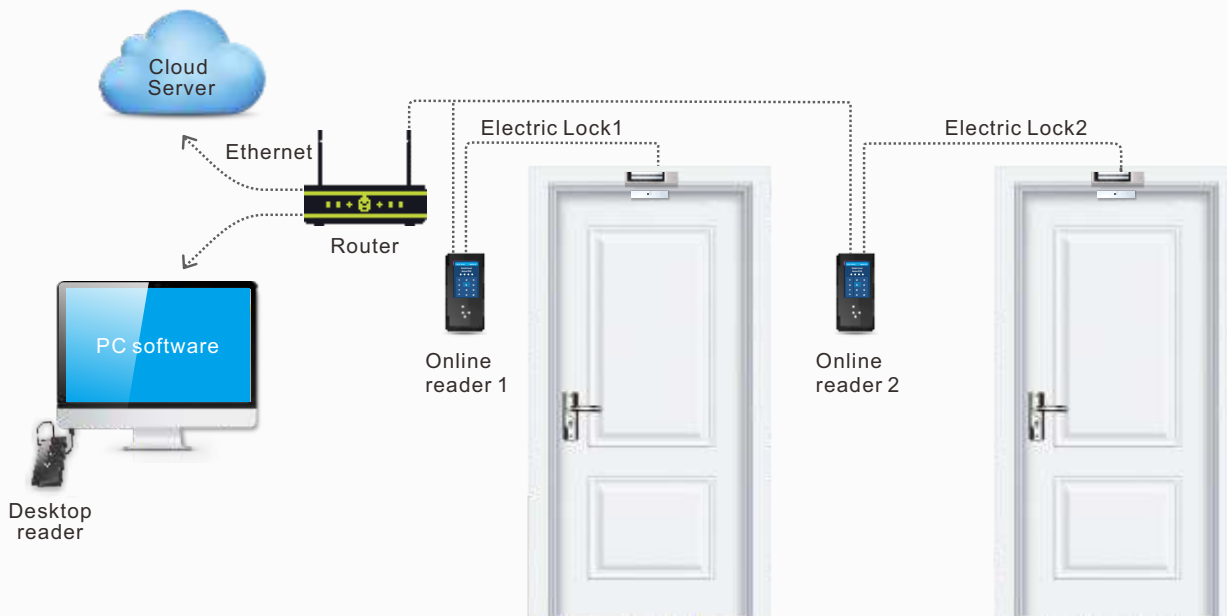


High compatible to controller

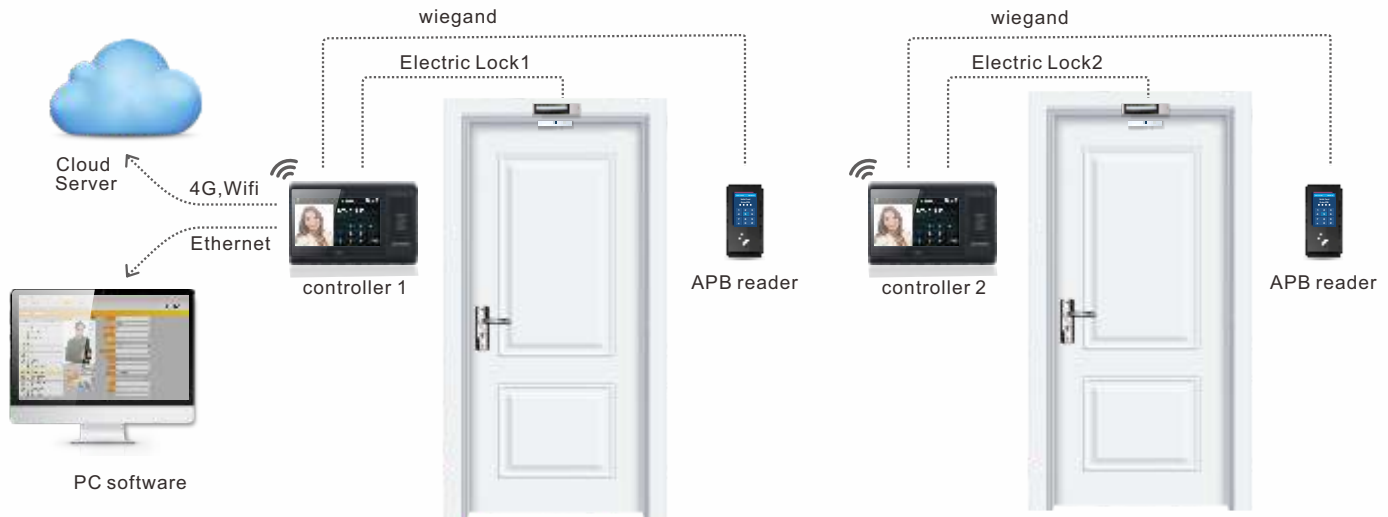
With multiple secure interfaces to work with the most of brand controllers on the market



PC/CLOUD SERVER MANNGED ACCESS CONTROL SYSTEM



ACCESS CONTROL READER TO WORK WITH CONTROLLER



Model	CRYSTAL TOUCH
Display	3.5" capacitive touch screen
ISO-protocol	125KHz & Pro, 13.56MHz ISO14443A/B, ISO18092 NFC
Contactless cards	EM 125KHz, 13.56MHz Mifare® Classic, Mifare® Plus, DESFire® EV1/EV2, NFC tags (T2T, T4T)
Contact smart card	ISO7816 (T=0, T=1) 1 SAM module, more on request
Communication Interface	TCP/IP (HTTP protocol supported), BLE 4.0, Wiegand, RS485 protocol OSDP
Power Supply	9-30VDC
Indicator	Controllable buzzer
I/O Port	2*I/O Port for door and exit, 1* tamper alarm switch, 1*relay output
Installation	Terminal block connector, wall mount or flush mount
IP protection	IP65 outdoor/indoor use
Operation Temperature	-20 ~ +60°C
Operation Humidity	0-90% relative humidity non-condensing
Certification	CE or and FCC approved

► Order Code

CT5-MET-X

Installation

F – Flush mount
W – Wall mount

Interfaces

Basic interfaces – BLE, RS485(OSDP), Wiegand 256, C&D, ABA, GPIO
T - TCP/IP + Basic interfaces

Contactless Smart Card Supported

M--13.56MHz
ME--125KHz & Pro,13.56MHz

Type

CRYSTAL TOUCH READER