

CIVINTEC[®]

Product Line Brochure

Contents

Cidron Reader

- Cidron Family Reader



Access Control Terminals

- 4G, WiFi & TCP/IP Access Control Terminal - CT9 Family
- Intelligent Access Control Terminal – uTouch



Access Control Readers

- Crystal Touch Reader
- Crystal Keypad Reader
- CN56X0B Family Reader



Low Power Consumption Platform

- Battery-driven WiFi & BLE 5.4 Access Control terminal - CM3



Cidron Family Reader

4-in-1 OSDP Access Control Reader



4-in-1 MULTIPLE IDENTIFICATION



1

MOBILE CREDENTIAL

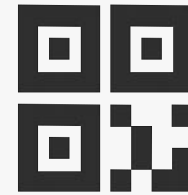
Support smart phone via
NFC & BLE credential



2

RFID SMART CARD

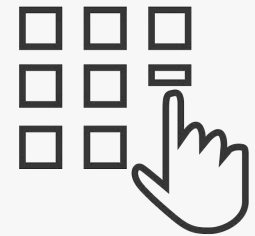
Support 125KHz &
13.56MHz Mifare,
DESFire EV1/EV2/EV3,
Mifare Plus



3

QR CODE

QR code scanner to
support multi-formats QR
Code 1D & 2D codes, QR
& Micro QR codes and
Barcode



4

PIN CODE

Pincode with backlight
LEDs to give extra
indication for access
control



MULTIPLE COMMUNICATION INTERFACES

Universal compatibility to all access controller brands.

- Addressable RS485, OSDP 1& 2 protocol (including Secure channel)
- Wiegand 1024 with customized wiegand format
- Clock&Data

ULTRA ROBUST DESIGN

Cidron Family reader with robust design makes them ideally suited in all kinds of physical access control occasions. Cidron is with Thermostat controlled embedded heater ideal for ultra low temperature $-40^{\circ}\text{C}\sim+70^{\circ}\text{C}$.





SECURE ACCESS MODULE

Cidron reader is compatible with MIFARE® SAM AV2/AV3 which gives the possibility to increase further the security of storing encryption keys (Evaluation Assurance Level, EAL 5+) and also allows for diversification of encryption keys.

VISUAL INDICATOR DESIGN

The substantial LED frame provides visual indications with green, red or yellow. The LED frame, backlight and buzzer can all be configured to indicate different operations and events using sound or light to communicate with the user. The indications can also be activated by external controls by using general purpose input/output's (GPI/O's).



ACCESSORIES FOR THE Cidron READER

Cidron Family reader is designed with various accessories to facilitate installation in all kinds of occasions. The Cidron reader vandalization protection protects the reader and helps it withstand violence by absorbing and redirecting external forces away from the reader. Distance plate with different angled enables smooth and flexible installations, and increase accessibility as well as visibility of the Cidron reader keypad. The tamper switch tray can help Cidron reader suitable for uneven wall installation and all kinds of mounting surface installation.

Keypad reader request silicon front plate, it can be used in harsh such as dirty or dusty environment.

>Cidron Family Comparision

Specs	VG2	VG3	VG3+QR	Cidron E
Reader Housing				
Dimension	Standard: L=109mm, H=25mm, W=79mm Slimline: L=141mm, H=25mm, W=48mm	Standard: L=109mm, H=25mm, W=79mm Slimline: L=141mm, H=25mm, W=48mm	Standard: L=143mm, H=80mm, W=91mm Slimline: L=180mm, H=95mm, W=63mm	L=141mm, H=25mm, W=48mm
RFID Smart Card	- 125KHz - 13.56MHz ISO14443A/B, NFC	- 125KHz - 13.56MHz ISO14443A/B, NFC	- 125KHz - 13.56MHz ISO14443A/B, NFC	13.56MHz ISO14443A
Contactless Card Supported	- EM4100/4102/4200/Prox, - Mifare® Classic, Mifare® Plus, Desfire® EV1/EV2/EV3 - ISO14443B UID - NFC Tags	- EM4100/4102/4200/Prox, - Mifare® Classic, Mifare® Plus, Desfire® EV1/EV2/EV3 - ISO14443B UID - NFC Tags	- EM4100/4102/4200/Prox, - Mifare® Classic, Mifare® Plus, Desfire® EV1/EV2/EV3 - ISO14443B UID - NFC Tags	Mifare® Classic, Desfire® EV1/EV2
NFC Mobile ID	Yes	Yes	Yes	No

Specs	VG2	VG3	VG3+QR	Cidron E
BLE	No	Yes	Yes	No
QR Code	No	No	Yes	No
Secure Access Module	ISO7816 SAM MIFARE SAM AV2/AV3	ISO7816 SAM MIFARE SAM AV2/AV3	ISO7816 SAM MIFARE SAM AV2/AV3	No
Communication Interface	Wiegand, RS485 (OSDP 1, OSDP 2, including Secure channel), Clock/Data	Wiegand, RS485 (OSDP 1, OSDP 2, including Secure channel), Clock/Data	Wiegand, RS485 (OSDP 1, OSDP 2, including Secure channel), Clock/Data	Wiegand, RS232, RS485 (OSDP 1, OSDP 2, including Secure channel)
Power Supply	+9-30VDC	+9-30VDC	+9-30VDC	+9-12VDC
Temperature	-40 ~ +70°C with heater	-40 ~ +70°C with heater	-40 ~ +70°C with heater	-20 - + 60°C without heater
Ingress Protection Classification	IP65 (request weather protection casing)	IP65 (request weather protection casing)	IP65 (request weather protection casing)	IP65 (request weather protection casing)
Harsh Environment	Yes (keypad reader request silicon front plate)	Yes (keypad reader request silicon front plate)	Yes (keypad reader request silicon front plate)	Yes
Compliances	CE, RoHS, UKCA	CE, RoHS, FCC, UKCA	CE, RoHS, FCC, UKCA	CE, RoHS, UKCA
Configuration Card	yes	yes	yes	yes
Firmware Upgrade	yes	yes	yes	yes

CRYSTAL TOUCH

CT9 Family

Smart Wireless & Ethernet PoE Cloud HTTP
IoT & Access Control Terminal with Multi-
technologies RFID, BLE and QR Code reader



CT9 PRO GUIDANCE



CT9 PRO Series

Touch Keypad Terminal

CT9 PRO-W Series

3.5" Touch Screen WiFi Terminal

CT9 PRO-D Series

3.5" Touch Screen Terminal
with HID® reader

HTTP SERVER CENTRALIZED ACCESS CONTROL & IOT SYSTEM WITH RFID/QR CODE/Mobile Credential READER

3.5" Touch Screen Terminal
with Embedded **LINUX** OS & **SDK**

+

Embedded **4G**, **WiFi** & **TCP/IP** Ethernet **HTTP/HTTPS**
for both LAN & Internet Server Software

+

Embedded **Relays** Control for Lock & Facility Control
Support both of **HOST Mode** & **Local Mode**



5-in-1 MULTIPLE IDENTIFICATION



1

MOBILE CREDENTIAL

Support Android NFC/BLE and iPhone BLE mobile credential



2

SMART WATCH

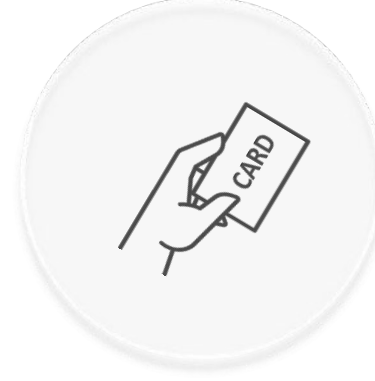
Support smart watch virtual credential



3

QR CODE

QR code scanner to support multi-formats QR Code 1D & 2D codes, QR & Micro QR codes and Barcode



4

RFID SMART CARD

Support 125KHz & 13.56MHz Mifare®, DESFire®EV1/EV2/EV3, Mifare®Plus and ISO14443B card, HID® iCLASS®, HID® Seos® smart cards



5

PIN CODE

3*4 Touch Pincode with backlight LEDs to give extra protection for access control

CLOUD SERVER REMOTE CONTROL FOR SECURITY & IOT SYSTEM

Bio-direction communication to GET/POST commands via standard HTTP/HTTPs between CT9 Family and server to remotely control door lock and various IoT facility management



IMPROVED SECURE ACCESS CONTROL SYSTEM

CT9 PRO give protection on door access by APB access control reader, with relay control to unlock door, features Power Over Ethernet (PoE) for less wiring and cost-save installation

RELAY CONTROL

CT9 PRO is with 1~2 controllable relay output for electronic door lock and facilities control, and high-security indoor-mounted relay solution

POE

Support Power Over Ethernet IEEE 802.3af for cost save and easy installation.

APB READER

CT9 Family is with RS485/wiegand to work with Cidron Family slave readers for best performance and to achieve a encrypted secured level of smart card technologies.



EXIT BUTTON

CT9 PRO with various inputs to control exit button and door contact with configurable settings.

CT9 PRO	CT9 PRO	CT9 PRO-W	CT9 PRO-D
RFID Contactless Cards	<ul style="list-style-type: none">- 125KHz PROx, 125KHz EM- 13.56MHz Mifare® Classic, Ultralight® , Mifare® Plus, DESFire® EV1/EV2/EV3, NFC tags		<ul style="list-style-type: none">- 13.56MHz Mifare® Classic, Ultralight®, Mifare® Plus, NFC tags, DESFire® EV1/EV2/EV3; HID® iCLASS®, HID® Seos®- 125KHz HID® PROX™, Indala, EM4100/4102 and HITAG
Mobile Credential	BLE, NFC (Support Android NFC/BLE and iPhone BLE)		BLE (2.4Ghz), NFC and HID® mobile virtual card
Barcode / QR scanner	Support		
Keypad	Touch screen keypad 12 keypad in 4 rows of 3 keys		
Communication Interfaces	<ul style="list-style-type: none">- TCP/ IP(RJ45)- 4G- RS485, wiegand input	<ul style="list-style-type: none">- TCP/ IP(RJ45)- 4G- WiFi- RS485, wiegand input	<ul style="list-style-type: none">- TCP/ IP(RJ45)- 4G- WiFi 2 .4GHz IEEE802.11b/g/n- RS485, wiegand input
I/O port	<ul style="list-style-type: none">- 3* Inputs - Door contact, Door exit, Buzzer control- 4* Outputs - Tamper alarm switch, Output Buzzer control, Access Granted, Access Denied		
Relay	1 or 2 relay outputs(relay for lock control func on can be op onal by indoor or outdoor control)		
Display	3.5” touch screen		
Offline Card Users / Event logs	10,000 users / 50,000 logs		
Indicators	<ul style="list-style-type: none">- TP display- Controllable buzzer and speaker		
Housing Dimensions	<ul style="list-style-type: none">- Basic Model: 24mm(D) * 165mm(H) *84mm(W)- QR/4G/ PoE Model: 45mm(D) * 200mm(H) *84mm(W)		
Power supply	<ul style="list-style-type: none">- 12~ 24V DC- PoE IEEE 802 . 3af		12-24V DC
Protection Class	<ul style="list-style-type: none">- IP65 electric epoxy potted (request waterproof spacer)- Resistant to UV ray (suitable for UV-resistance model)		
Operation Temperature	- 20°C ~ 60°C		

CT9 E Family GUIDANCE



CT9 E Series
Touch Keypad Terminal

HTTP SERVER CENTRALIZED ACCESS CONTROL & IOT SYSTEM WITH RFID/QR CODE/Mobile Credential READER

Touch Keypad Terminal
with Embedded OS and SDK

+

Embedded **4G, WiFi & TCP/IP** Ethernet **HTTP/HTTPS**
for both LAN & Internet Server Software

+

Embedded **Relays** Control for Lock & Facility Control
Support both of **HOST Mode** & **Local Mode**



5-in-1 MULTIPLE IDENTIFICATION



1

MOBILE CREDENTIAL

Support Android
NFC/BLE and iPhone
BLE mobile credential



2

SMART WATCH

Support smart watch
virtual credential



3

QR CODE

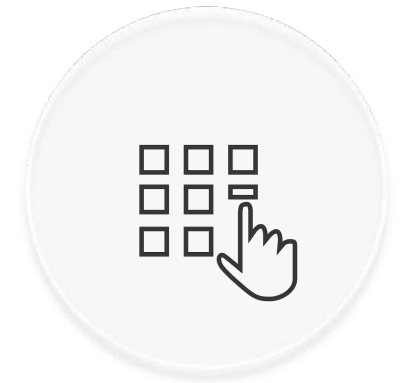
QR code scanner to
support multi-formats
QR Code 1D & 2D
codes, QR & Micro QR
codes and Barcode



4

RFID SMART CARD

Support 125KHz &
13.56MHz Mifare®,
DESFire®EV1/EV2/EV3,
Mifare®Plus and
ISO14443B card



5

PIN CODE

3*4 Touch Pincode
with backlight LEDs
to give extra
protection for access
control

CT9 E	CT9 E
RFID Contactless Cards	<ul style="list-style-type: none">- 125KHz PROx, 125KHz EM- 13 . 56MHz Mifare® Classic, Ultralight® , Mifare® Plus, DESFire® EV1/ EV2/ EV3, NFC tags
Mobile Credential	BLE, NFC
Barcode / QR scanner	Support
Keypad	Touch screen keypad 12 keypad in 4 rows of 3 keys
Communication Interfaces	<ul style="list-style-type: none">- TCP/ IP(RJ45) - 4G- WiFi 2 .4GHz IEEE802.11b/g/n- RS485, wiegand input
I/O port	- 3* Inputs - Door contact, Door exit, Buzzer control - 4* Outputs - Tamper alarm switch, Output Buzzer control, Access Granted, Access Denied
Relay	1 or 2 relay outputs
Fire alarm	2 * Inputs to connect fire alarm
Display	--
Offline Card Users / Event logs	10,000 users / 50,000 logs
Indicators	<ul style="list-style-type: none">- Controllable tri-color LEDs- Controllable Buzzer and speaker
Housing Dimensions	- Basic Model: 24mm(D) * 165mm(H) *84mm(W) - QR/4G/ PoE Model: 45mm(D) * 200mm(H) *84mm(W)
Power supply	- 12~ 24V DC - PoE IEEE 802 . 3af
Protection Class	- IP65 electric epoxy potted (request waterproof spacer) - Resistant to UV ray (suitable for UV-resistance model)
Operation Temperature	- 20°C ~ 60°C

UTOUCH NEW GENERATION **CN890**

7" Touch Screen Intelligent Biometric Access Control Terminal





ANDROID / LINUX

QUAD-CORE PROCESSOR

Customizable on friendly user interface
and easier to integrate new
APPS with SDK API

VERSATILE COMMUNICATIONS

Easily get networked through IP Ethernet, BT, WiFi and 4G for bi-direction data communication and synchronize in real time, and remotely manage networked uTouch X from different locations.



TCP/IP



PRODUCT FEATURES



7.0 inch capacitive touch screen

Sensitive and high resolution screen comfortable for user experience



NFC&RFID contactless smart card options

ISO18092NFC, 13.56MHz, MIFARE®, MIFARE Plus, DESFire®EV1; 125KHz SAM slot for securedata encryption



Reliable biometric fingerprint security

Support both 1:N and 1:1 fingerprint enrollment (store fingerprint into smart card) with added privacy



Embedded auto focus camera

5.0M pixel digital camera with auto focus, microphone and speaker

POE

Power over ethernet

PoE for stable and low cost installation



Versatile communication interfaces

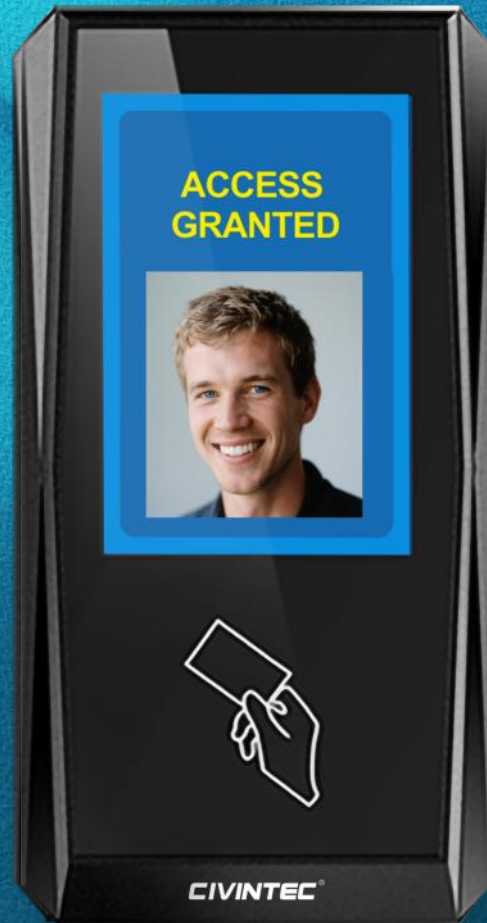
WiFi, 4G, BT4.0, TCP/IP, USB

CRYSTAL Family READER

CT5-CK5

Stylish OSDP RFID & Mobile Credential
Access Control Reader





TOUCH FREE MOBILE CREDENTIAL ACCESS CONTROL READER

CT5 mobile access supports NFC and BLE
mobile credential to unlock door and
display visitor's photo on screen



3.5" TOUCH SCREEN

Waterproof Outdoor Use



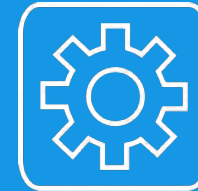
TOUCH PINCODE

Customizable Touch Pincode



2.4" OLED DISPLAY

Programmable Text



MECHANICAL KEYPAD

12 digit keypad with white LED backlit



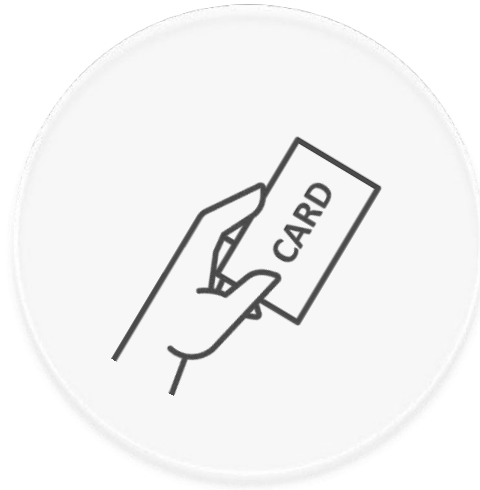
3-in-1 MULTIPLE IDENTIFICATION



1

MOBILE CREDENTIAL

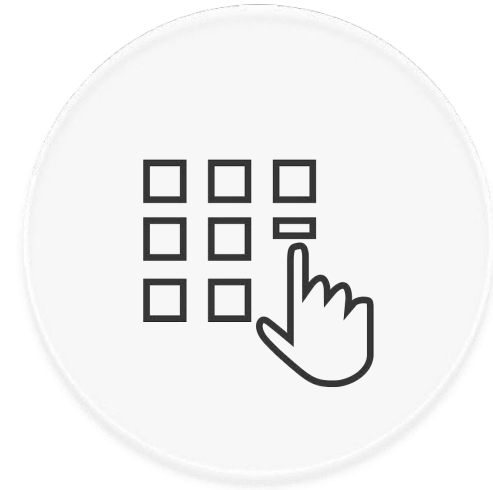
Support NFC/BLE in Android, and BLE in iOS



2

RFID SMART CARD

Read/write 125KHz & 13.56MHz Mifare®, DESFire® EV1/EV2, Mifare® Plus and ISO14443B card



3

PIN CODE

Customizable 3*4 Touch Pincode to give extra protection for access control



PROGRAMMABLE TEXT & IMAGE ON SCREEN

Stylish Linux 3.5" touch screen and 2.4"OLED display access control reader freely display customized picture with TEXT controlled by OSDP protocol, and display visitor's photo for more intuitive and clear information to confirm their identity.



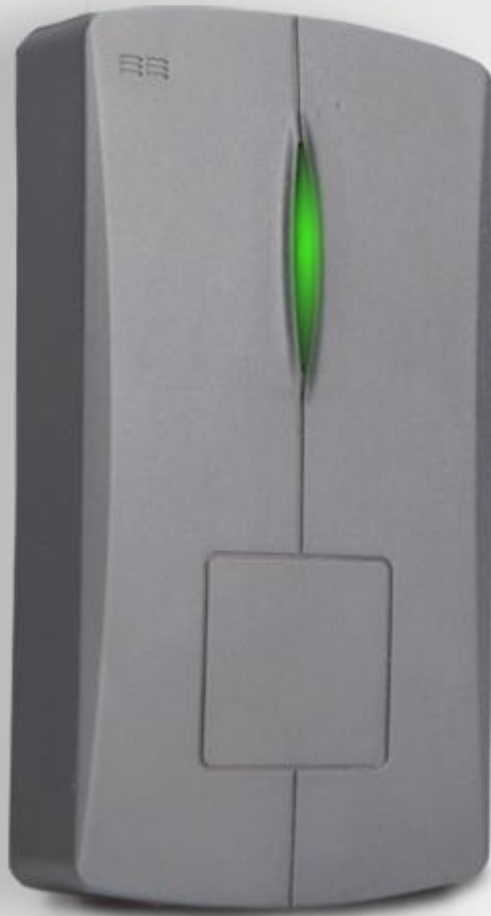
MULTIPLE COMMUNICATION INTERFACES

Universal compatibility to all access controller brands.

- Addressable RS485, OSDP 1& 2 protocol (including Secure channel)
- Wiegand 1024 with customized wiegand format
- Clock&Data

Crystal Touch	CT5 Specification
Display	3.5" touch screen
Operation System	LINUX
Keypad	Touch PIN pad
ISO-protocol	125KHz Prox, 125KHz EM, 13.56MHz Mifare®Classic, Ultralight®, Ultralight®C, Mifare®Plus, DESFire® EV1/EV2, NFC tags (T2T, T4T)
Mobile Credential	BLE, NFC Support BLE in iOS, and NFC/BLE in Android
Secure Access Module	ISO7816 (T=0, T=1) 1 SAM module, more on request
Communication Interface	1x Wiegand Out (26-1024bit) , RS485(OSDP protocol), BLE 4.0
Power Supply	9-30V DC
Indicator	Controllable buzzer and TP display, speaker with controllable volume
I/O Port	2*I/O Port, 1* tamper alarm switch
IP Protection	IP65 electric epoxy potted Resistant to UV ray (suitable for UV-resistance model)
Operation Temperature	-20 ~ +60°C
Certification	CE & RoHs3

CRYSTAL KEYPAD	CK5-MX-X Specification
ISO-protocol	13. 56MHz ISO14443A/B, ISO15693, NFC, 125KHz
Contactless cards	125KHz Prox, EM4100, EM4200 Mifare@S50/S70, Ultralight@(C), DesFire@ EV1/EV2, Mifare@ Plus S,X NFC forum tag T2T, T4T
Mobile ID	NFC, BLE
Secure Access Module	ISO7816 Standard Mini Card Slot, MIFARE SAM AV2
Display	2.4" OLED, 128x64 white characters on black background
Keypad	12 digit keypad in 4 rows of 3 keys in each row with white LED backlit, intensely adjustable; Keypad output format Weigand 4bit, Weigand 8bit (Dorado), Weigand 26bit & OSDP ASCII format
Communication Interface	RS485, OSDP, Weigand 24-1024
Indicator	intensely adjustable; Keypad output format Weigand 4bit, Weigand Green, yellow (bio-color) or Mixed color Status Indicators, Buzzer
GPIO	2 configurable GPIO
Tamper Alarm	Built-in mechanical tamper switch which allows for indication both break off protection and opening of the reader
Power supply	9-30V DC
Ingress Protection Classification	IP65
Housing dimensions	165mm (H) * 84mm (W) * 20mm (T)
Operating temperature	-40°C ~ +60°C, With thermostat controlled embedded heater
Certification	CE, RoHS



CN-Family READER

CN56X0B

Economic RFID NFC Access
Control Reader

RFID IDENTIFICATION



1

Mobile Credential TOUCHLESS ACCESS

Support NFC smart phone and tags



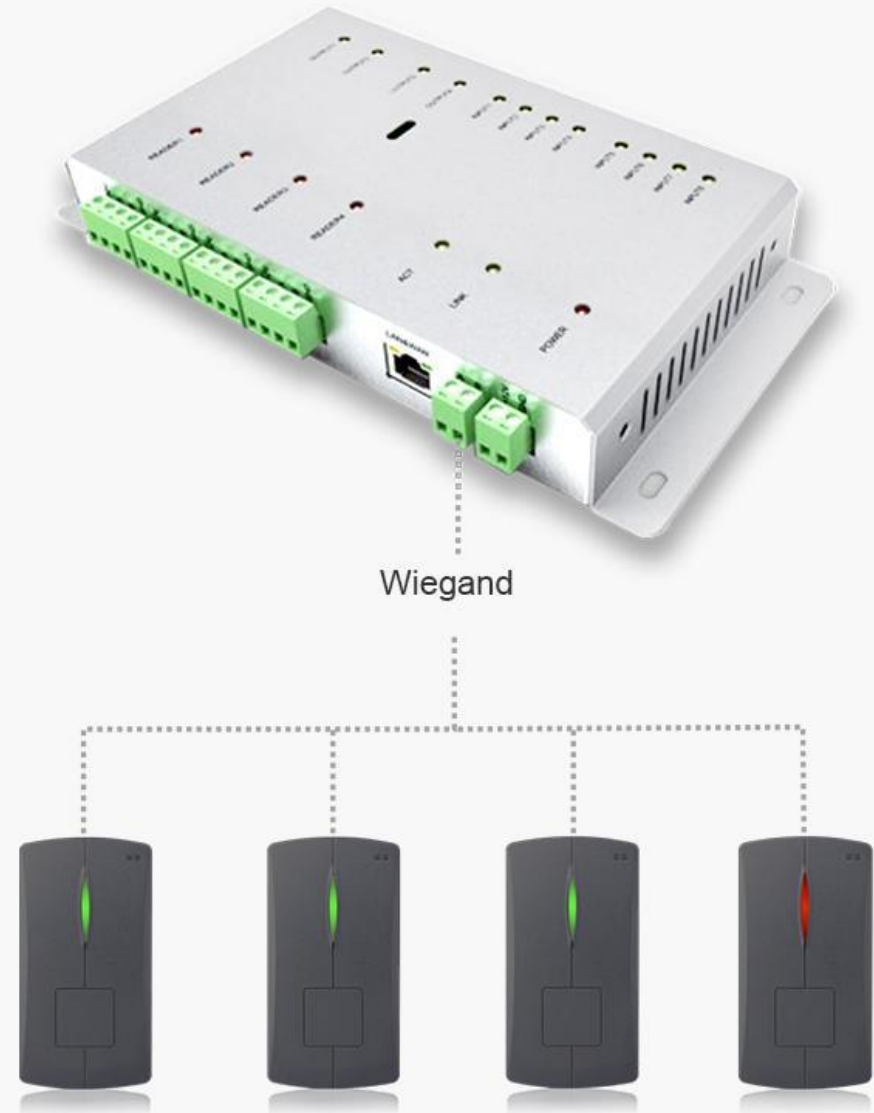
2

RFID SMART CARD

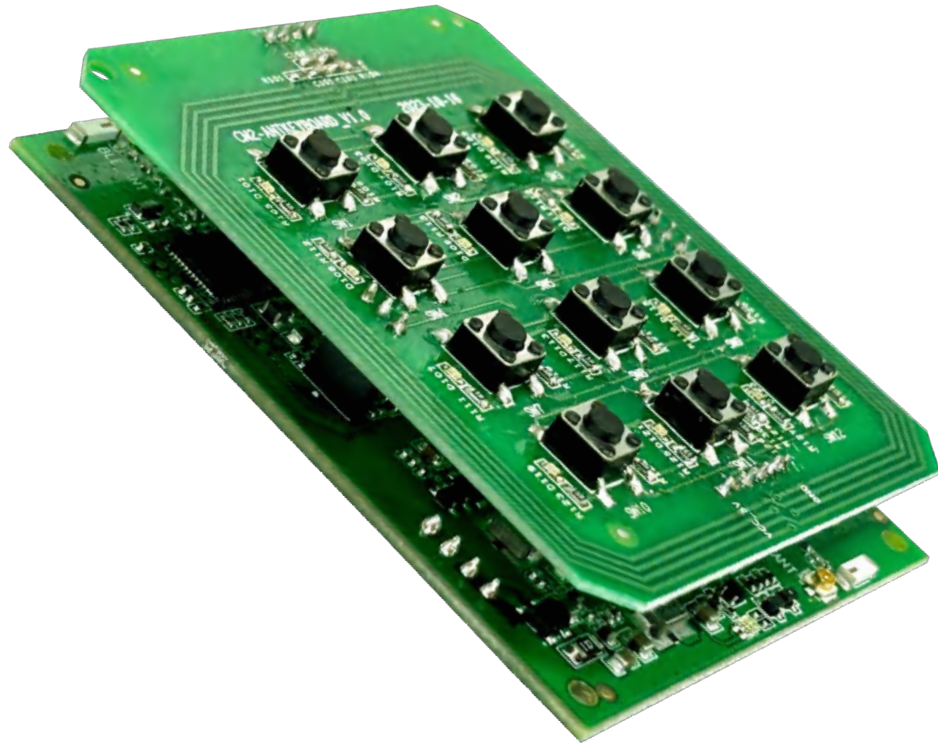
Read/write 13.56MHz Mifare, DESFire EV1, Mifare Plus and FeLiCa cards

HIGH COMPATIBILITY WITH CONTROLLER AS SLAVE READER

Wide operating voltage, CN56X0B is with high compatibility for most controllers on the market.



Model	CN56X0B-X-XX Specification
Operating Frequency	13.56MHz
ISO18092	ISO18092 NFC peer to peer
RFID Standard	ISO14443A4(part 1 -4), Mifare, Mifare Plus and DesFire EV1, Felica
RFID Card Supported	Ultralight, Mifare 1K/4K, Mifare Pro/Prox, Mifare Plus, DESFire EV1 and other ISO14443A NFC tags (T2T, T4T) compatible cards, Sony Felica, ISO14443B on request
Power Supply	9V DC (9-24V), <1 50mA
Interface	RS232\RS485\TCP/IP, Wiegand (26, 34, 42, 50, 58) / Clock & Data 8, 1 0 / ABA1 , 2
Reading output format	Wiegand 26, 34, 42, 50, 58 / Clock & Data 8, 1 0 (3 byte, 5byte, HEX, ASCII) / ABA1 , 2
Indicators	Bio-color LED and Buzzer controlled by three-wires
Operating Temperature	-20°C`+60°C/-4°F`140°F
Protection Class	IP65, electric epoxy potted for harsh environment



CM3

Powerful Zigbee/MQTT RFID & BLE 5.4
& WiFi platform for personalization
and customization

MULTI-TECHNOLOGY PLATFORM



1

RFID SMART CARD

Read/write 13.56MHz & 125KHz Mifare, DESFire EV1/EV2/EV3, Mifare Plus card



2

NFC/ BLE MOBILE CREDENTIAL

Use mobile phone via NFC & BLE 5.4



3

SENSOR

With Body detection function



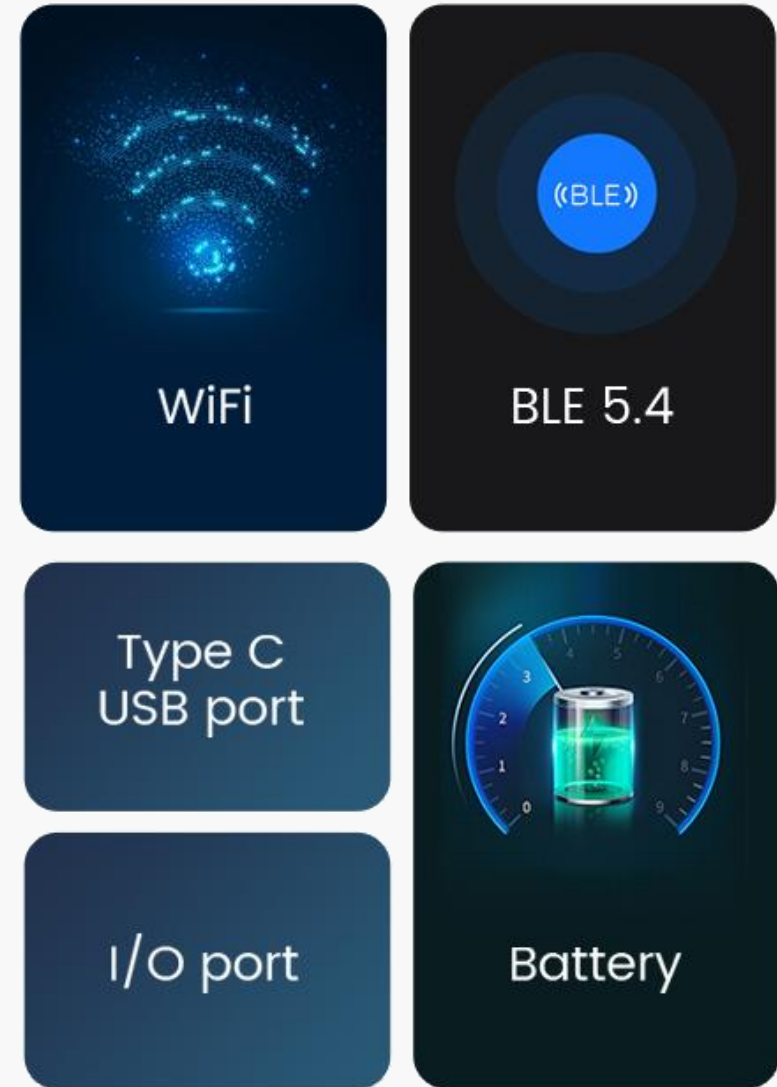
4

ARM® TRUSTZONE® TECHNOLOGY

Support Arm® TrustZone® for high security

MULTIPLE COMMUNICATION INTERFACE

Wire & wireless communication interface of WiFi, BLE 5.4, Type C USB port with battery powered feature offers a flexible and cost-save installation solutions well-suited for various network environments, and rich I/O port for external devices control.



MEMORY FOR LOCAL DATA STORAGE

Smart CM3 has ability for selection memory to store the data and can reliably gather the data and safely transmit and exchange data wirelessly via WiFi or BLE to a central point for identification.



VERSATILE IOT APPLICATIONS

■ Access control

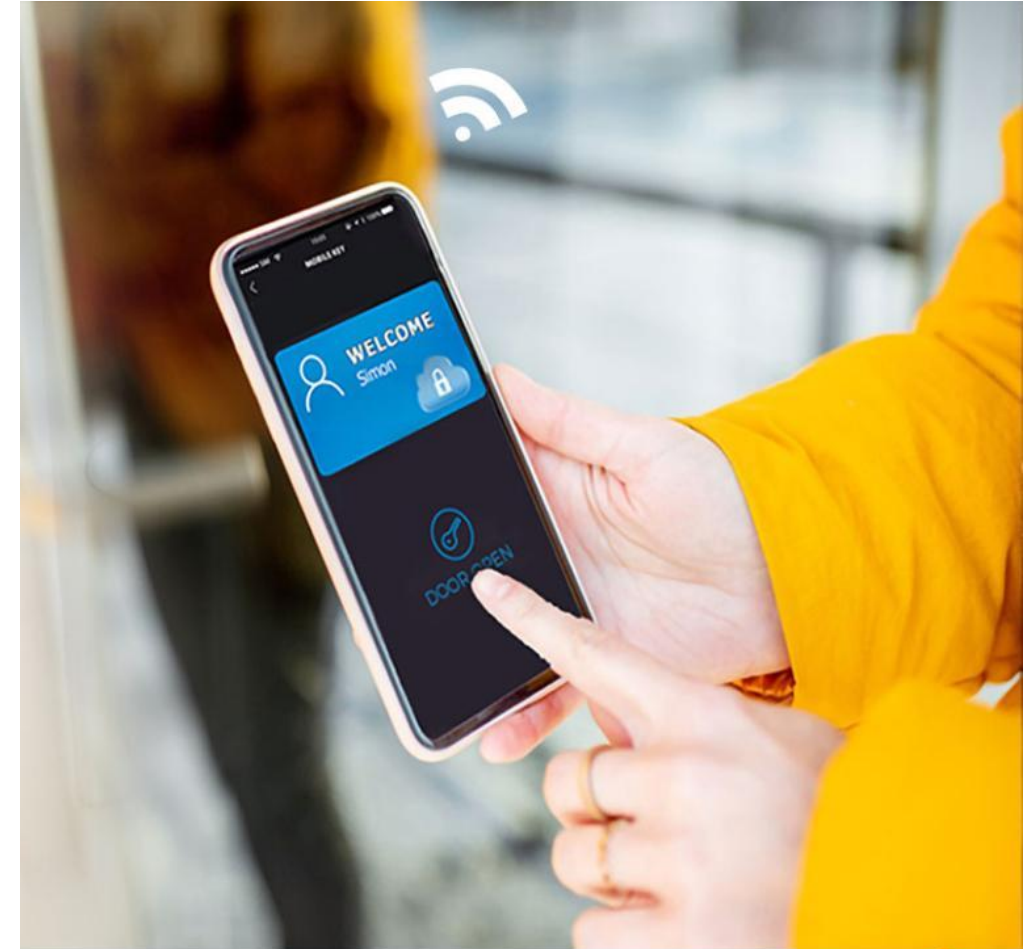
Smart CM3 supports various credentials, including NFC/BLE mobile ID, popular smart cards RFID for personal identification.

■ Localization

Smart CM3 supports RFID and NFC/ BLE mobile credentials via WiFi, BLE, Zigbee/ Thread/Matter protocol with gateway for localization cafeteria management solution.

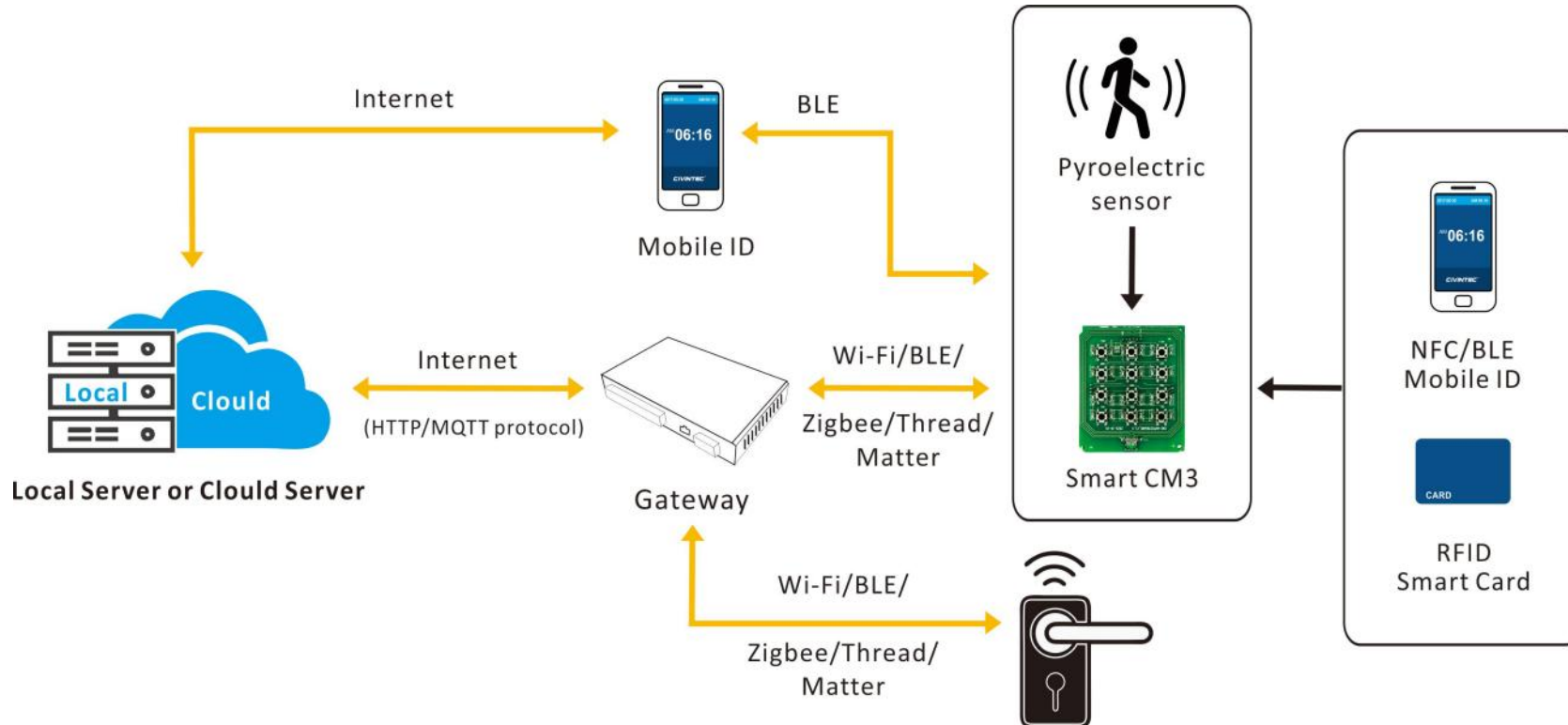
■ Asset Tracking and Management

CM3 supports MQTT/Zigbee protocol to communication via gateway between CM3 terminal reader and server with high security encrypted application for asset equipment tracking and management.



SYSTEM DIAGRAM

Smart CM3 supports intercommunication with server to identify and send RFID smart card and NFC mobile credential through BLE gateway or WiFi (2.4G) under low power consumption.



Model	CM3
RFID ISO Standard & Cards	13.56MHz ISO14443A, ISO15693 and NFC standard <ul style="list-style-type: none">· Mifare Classic CSN & Sector· DESfire EV1/EV2/EV3(2k/4k/8k)CSN & Sector· Ultralight/Ultralight C CSN & Sector· Mifare plus S,X CSN & Sector· NFC tag
Mobile Credential	<ul style="list-style-type: none">· NFC mobile phone· BLE 2.4GHz
Communication Interfaces	<ul style="list-style-type: none">· WiFi IEEE 802.11b/g/n· BLE 5.4(Slave mode , Thread , Zigbee , Matter)· USB (Type C)
Secure Interface	Embed the necessary security features for secure boot
Sensor	Body detection sensor
Fire alarm	On request
Memory	4KB (on request)

Model	CM3
Power Supply	4 * AA batteries
Indicators	Bio-color LEDs with red, green and amber colour and buzzer
Dimensions	59x50mm (The dimension is customizable on customer's request)
Operating Temperature	-20°C~60°C
Configuration Methods	Configuration card, reader tool software or factory configured readers.



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Version 8.4