CIVINTEC®

CT10C NEW

Innovation, Secure, Reliable

4 IN 1 Access Control Terminal Seamlessly Integrates Camera with Advanced VoIP Intercom

NFC/BLE	RFID card	QR Code	Pincode

Overview

CT10C is advanced access control terminal with camera and VoIP intercom that incorporates 4-factors of authentication that encompasses, BLE and NFC mobile credentials, dual-frequency RFID smart cards, QR/barcode scanning, and touch keypad input. This multi-methods approach enables truly contactless access while maintaining advanced security standards for both regular users and visitors.

The Linux-based access control terminal is designed as server centralized system, supporting multiple connectivity options including Ethernet, 4G, WiFi, and LoRaWAN for real-time online monitoring in HOST mode or fully autonomous operation in standalone Local mode, guaranteeing uninterrupted access control.

Furthermore, Linux based CT10C is supported by a robust SDK with comprehensive libraries, API, encrtyped high secure HTTPs protocol and DEMO for developer to rapidly build highly customer's own professional and strong applications and requirements tailored to diverse industry needs. It also provides API for developer to display customized and intuitive UI, background image and real-time TEXT on 3.5" touchscreen. CT10C SDK provides developers with a simple, user-friendly interface, offering high flexibility and extensibility.

Support Multiple Authentication Technologies

CT10C supports multiple access control credential options secured by advanced encryption. Security can be further enhanced with 4-factor authentication method by combining mobile App with digital credentials.
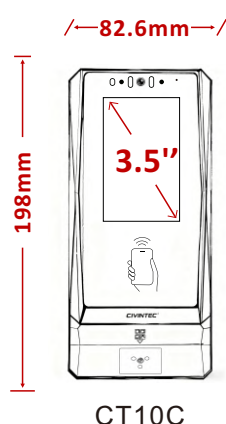
| QR Code | Mobile Credential | RFID Smart Card | Pincode |

Compact Size with Easy Installation

←—82.6mm—→

198mm

3.5"

CT10C

The CT10 features a slim, compact design with a 3.5-inch touch screen, making it ideal for any door environment. It supports RS485, TCP/IP(PoE), Wi-Fi, LoRaWAN and 4G LTE connectivities. Its installation is simplified with PoE and wireless connectivity, significantly reducing wiring needs. Built for durability, its robust weatherproof housing ensures reliable performance outdoors weather resistant to rain, dust, strong sunlight for rugged environment installations

Auto Image Record Notifications

camera

Oct 30, 2025 AM 09:00

To enhance security and simplify management, CT10C intelligent access control terminal integrates a high-resolution camera to add a vital visual layer to every entry event. Each time a credential is used, the terminal automatically captures a timestamped image upon access. This visual record is then seamlessly synced to the server in real-time or saved locally, providing a clear audit trail.

Access Control with VoIP Intercom

At its core, the CT10C is a VoIP intercom device that seamlessly integrates real-time communication capabilities. This core functionality delivers immediate, reliable voice interaction, essential for security protocols that depend on verbal identity confirmation and direct communication.

Speaker

Microphone

Calling
701
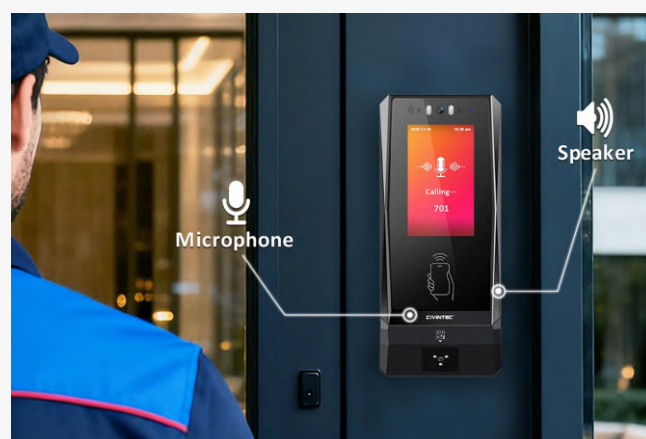
Features

Intuitive Touch Screen
- 3.5" Touch Screen Linux OS with SDK
- Programmable UI, background image with text content
- Branding LOGO modification

Multi-tech Mobile Credential
- Support BLE in iOS, NFC/BLE in Android, Configurable BLE Broadcast Range
- QR Code scanner with high-speed readability and large data capacity
- With dynamic QR Code generator to improve security for application requirements

Cloud-Based System
- Support both local offline and online mode under server remote control in real time
- HTTP/HTTPs encrypted communication protocol

Function Keys
- Function Keys record different activity as clock in/out, overtime, breaks and other events
- Programmable definitions to trigger specific events Customizable to expand and add more keys

Easy Upgrade
- Server Remote Update via TCP/IP, WiFi, 4G
- BLE OTA update - wireless firmware updates
- Use ConfigCard software update Linux software and firmware

To Meet Requirement of The Highest level of Security
- RFID credentials are protected by DESFire® EV1/EV2/EV3 with AES encryption and MIFARE ® SAM AV2/AV3 (EAL5+/EAL6+)
- BLE credential is protected by AES encryption.
- BLE and QR code credential extended to accommodate more data to strengthen credential encryption
- HTTPs protocol with enhanced CA certificate verification
- High-security access control system working with CN56X0B reader to achieve indoor-mounted relay controlling door lock for high security

Access Control Toggle Function
CT10C toggle function allows instant door status switching between locked mode (no access), unlocked mode (free access), and normal access control mode (validates permissions) with a HTTP/HTTPs command from cloud server.

Rich I/O port
CT10C is with embedded 1~2 Relay output design for lock and facility control and input for Fire Alarm system integration

Applications

CT10C server based networked IoT & access control terminal is perfect to meet general applications and industries. It provides server-based centralized remote applications control in real time, to control various kinds of electronic lock, turnstile, barrier and facilities. It supports multiple authentication technologies for staff, student, resident, visitor and member management and tracking. With 3.5" touch screen, CT10C is intuitive for visitors to read the status of access granted/denied, function keys, reservation, displayed information or announcements in real time.

Access Control   **Time Attendance**   **Loyalty & Payment**   **IoT Facility Control**

Industries

- Campus & School
- Enterprise
- Hospitality
- Multi-Family Residential
- Storage

- Car Parking
- Government
- Industrial Access Control
- Construction
- Data Center

- Healthcare
- Workforce
- Gym & Fitness Facilities
- Sport Court

- Stadiums & Venues
- Retail
- Restaurants
- Warehouses

# Configuration

- **Centralized Network Management**

  CT10C is networked access control system that operates over TCP/IP, with optional WiFi, LoRaWAN, or 4G connectivity to manage both online and local mode access control applications. This ensures seamless operation in any environment, even those with limited or no local network access.

- **High-Security Access Solution Tailored for Critical Areas**

  CT10C supports APB reader to protect both sides of an access point. It can be intelligently configured into a slave mode for entrances, while operating seamlessly with room interior CN56X0B relay-enabled card readers for exits.

- **Intelligent Access and Facility Control**

  Equipped with two relay outputs, CT10C smart IoT & access control system is ideal for centralized remote management of electric locks, lighting, and other facilities from a central server in real time.
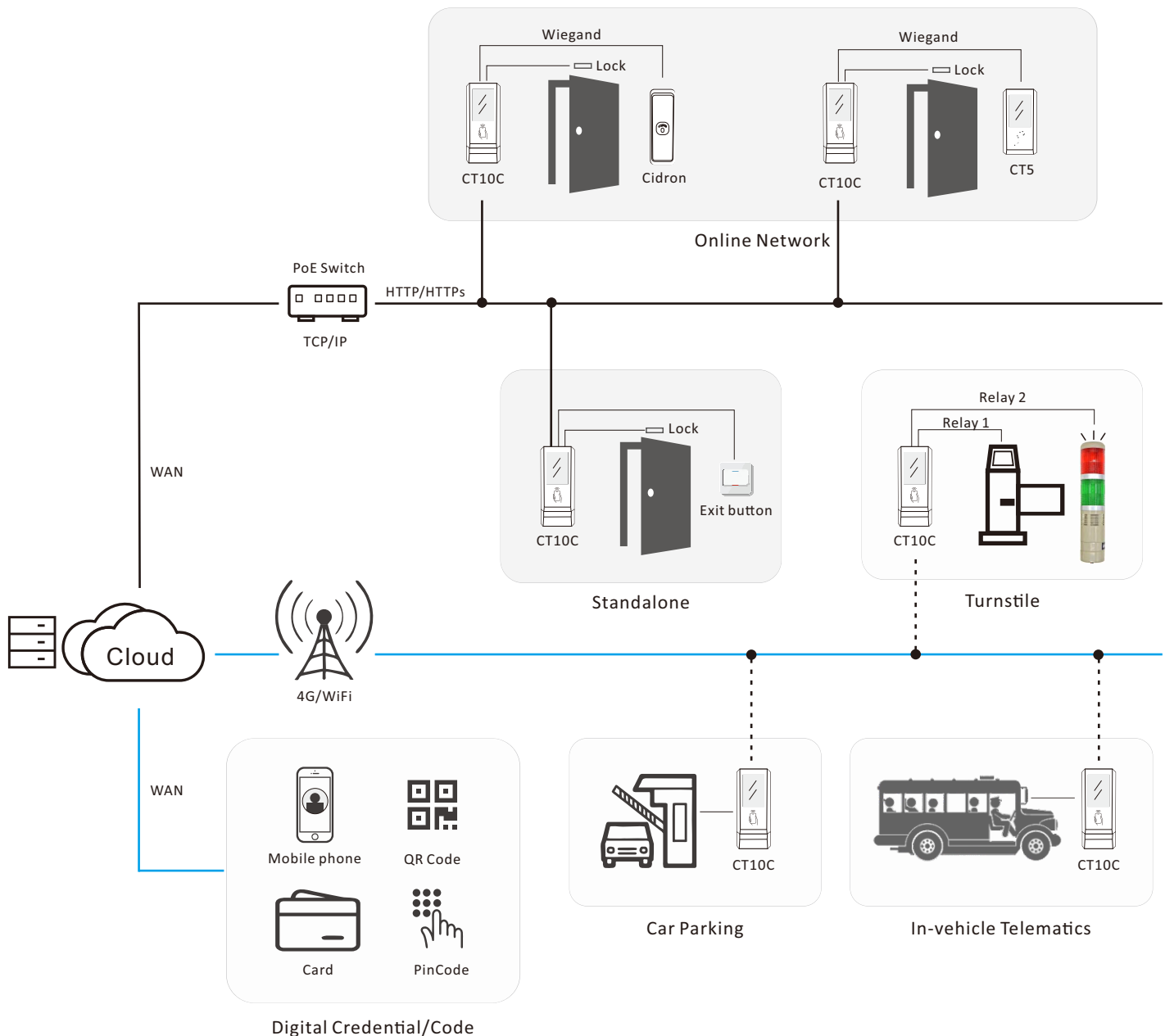
Seamless Door Station Intercom with the CT10C

CT10C features a built-in door station intercom function, enabling clear, reliable voice communication between the entrance and authorized individuals inside. Instead of requiring complex wiring for each unit, a single CT10C at the entrance connects to a central gateway. This gateway then efficiently manages communication with multiple indoor units across local network.
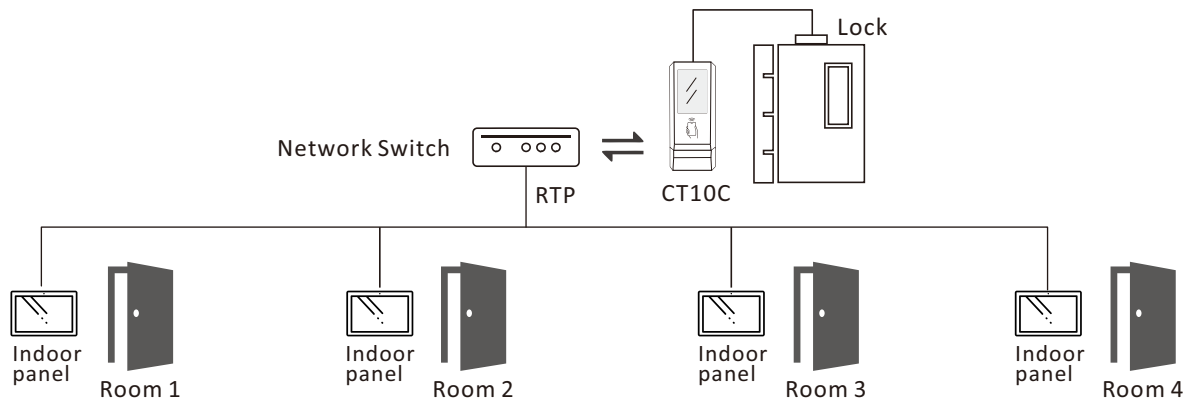
For Developer

CT10C provides SDK for customer's software development or the third party software system integration for general applications build. CT10C SDK offers developer guidance, libraries, API, HTTP/HTTPs protocol, alongside ConfigCard software, robust demo software including BLE, NFC and QR credentials, server demo and rich example codes to greatly accelerate software development. HTTP and encrypted HTTPS protocols are provided for developer to establish communication between CT10C and user's server software high security and stability.

With its extensive API library, developers can effortlessly build customized solutions tailored to unique application across industries- from corporate offices to industrial facilities. The SDK further empowers developers to fully customize intuitive UI interfaces, display branded backgrounds, and present real-time text information on the 3.5-inch touch screen. This flexibility facilitates a tailored user experience and ensures a unified brand presence.
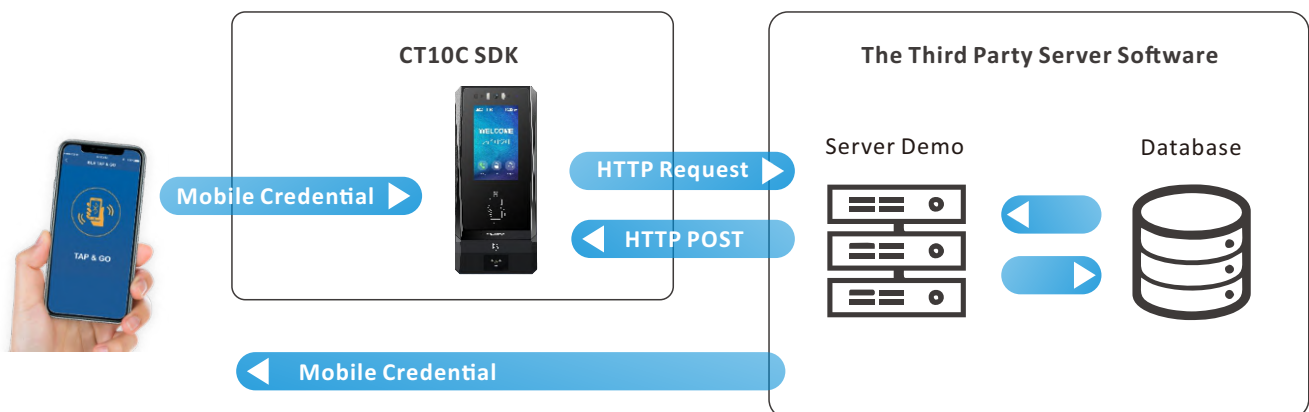
Hardware Testing package and Configuration software

HTP CT10C supply HTP - plug & play hardware testing package for developer. It includes Configcard software and all the must-have accessories to establish full testing environment for terminal test, full functions configuration, software development and firmware/system upgrading.

Specifications

	CT10C
IDENTIFICATION	
RFID	• 125KHz HID® PROX™, 125KHz EM • 13.56MHz Mifare®Classic, Ultralight®, Mifare®Plus, DESFire®EV1/EV2/EV3, NFC tags
Mobile	BLE, NFC (*Support BLE in iOS, and NFC/BLE in Android*)
	QR Code Multiple formats supported (*1D & 2D Codes*):QR Code,Micro QR code,PDF417, Code 128, Code 39 andmost mainstream 1D and 2D barcodes.
Keypad	Supported
CAPACITY	
Max. Card Users	• Local mode: 100,000 users • Online mode: Unlimited
Max. Event logs	• Local mode: 200,000 logs (*more on request*) • Online mode: Unlimited
Max. Image Logs	• Local mode: 7000 logs
GENERAL	
Operating System	LINUX OS
Display	3.5" touch screen
LCD Resolution	480*800 Pixels
Camera	2MP camera with Autofocus and LED Flash
Audio	High-quality sound Speaker
Intercom	VoIP
Indicator	• TP Display • Controllable buzzer and speaker
INTERFACE	
Ethernet	TCP/IP(RJ45)
WiFi	2.4GHz IEEE802.11 b/g/n (*suitable for CT10C-W-XX model*)
LoRaWAN	Supported Operating Frequency:860~930MHz (*suitable for CT10C-L-XX model*)
4G	Supported (*suitable for CT10C-H-XX model*)
Network Protocol	HTTP/HTTPs
BLE	BLE 5.3
RS485	Supported
Wiegand	1* wiegand input (*26-1024bit*)
I/O port	3*Inputs - Door contact, Door exit, Buzzer control 4*Outputs - Tamper alarm switch, Output buzzer control, Access Granted, Access Denied
Relay	1~2 relay outputs
Fire alarm	Support fire alarm signal input

INSTALLATION	
Power Supply	• DC 12~24V • PoE IEEE802.3af
Dimensions	46mm(D)*198mm(H)*82.6mm(W)
Protection Rating	• IP65 electric epoxy potted • Resistant to UV ray (*suitable for UV-resistance model*)
Operation Temperature	-20~60℃
Upgrade	Software and firmware upgrade supported

﹡ The specifications are subject to change without notice.

How to Choose the Right Model?

• CT10C Model Selection Guide

CT10C-XX-XX-X-X

UV Resistance
UV - UV resistance suitable for outdoor
Blank - without UV resistance

Relay Numbers
2R - 2 relay outputs
Blank - 1 relay output

Functions
Q - Embedded QR scanner
P - Power Over Ethernet(PoE)
QP - QR scanner + POE
Blank - no functionality

Communication Interface
Blank - TCP/IP
H - 4G LTE + TCP/IP
W - WiFi + TCP/IP
L - LoRaWAN + TCP/IP
HW - 4G LTE + WiFi + TCP/IP
LW - LoRaWAN + WiFi + TCP/IP

• Go to online shop, choose your model, and get a quote.

CT10C
3.5" touch screen access control terminal with reader

Identifications	Select ∨
Communication Interface	Select ∨
Power	Select ∨
Protection	Select ∨
Relay	Select ∨

Clear selection

Go to online shop to Get Quote 🛒