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CT9 PRO/CT9E

Cloud Based Security & Iot Solutions

2024-01-17

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SERVER

Payment

Turnstile

Access Control

Time Attendance

Facility Control

Membership

Light Control

Car Parking

Reservation

IoT

Visitor

CT9 PRO/CT9E Cloud Management System

CT9 PRO/CT9E is All-in-One Linux HTTP access control & IoT terminal to build cloud server centralized & remote control solutions. It features with wireless 4G communication, flexible and unlimited for various installation occasions without huge infrastructure to client. It supports TCP/IP Ethernet HTTP/HTTPs for both LAN and Internet Cloud Server Software, with PoE (Power Over Ethernet) for less wiring and cost effective installation.

As online reader, CT9 PRO/CT9E use standard HTTP/HTTPs to get bio-direction communication between CT9 PRO/CT9E and third party cloud server. It works as CLIENT to automatically detect if server is online. When CT9 PRO/CT9E establishes a connection with the cloud server, it can automatically receive HTTP commands from the cloud server or actively send HTTP commands to the cloud server. Each device contains a MAC address to avoid IP conflict for smart devices remote management.

CT9 PRO/CT9E HOST mode provides fully cloud server remote control in real time. Server software remotely get user's ID and check the permissions, send commands to activate CT9 PRO/CT9Erelay and control screen to display specific image with TEXT for intuitive guide.

▶ **HOST MODE**

CT9 PRO/CT9E HOST mode provides fully cloud server remote control in real time. Server software remotely get user/visitor's ID and check the permissions, send commands to activate CT9 PRO/CT9E relay and control screen to display specific image with TEXT for intuitive guide.

▶ **LOCAL MODE**

CT9 PRO/CT9E Local mode provide device locally control application. It is with large memory locally to store user/visitor's ID and read to check the permissions to activate the relay locally.

CT9 PRO/CT9E Multi-Technology Identifications

CT9 PRO/CT9E incorporates with 5-in-1 multiple access credential technologies, use the latest technology BLE and NFC mobile access credential, QR CODE, Barcode by using mobile phone for visitor access control management, and RFID dual 13.56MHz & 125KHz smart cards, HID® cards and touch keypad. This combination makes the product flexible for all kinds of security applications and future technology requirements applicable for the security industry.
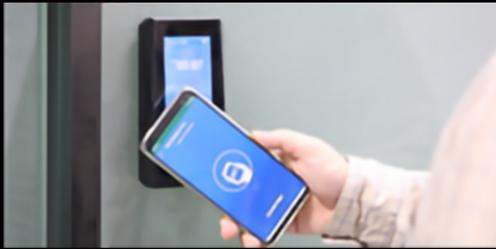
▶ **NFC Mode**

Present NFC mobile credential to CT9 PRO/CT9E like traditional RFID proximity smart card.

▶ **BLE Remote Control**

Use BLE mobile credential to remote control CT9 PRO/CT9E within over 15 meters via BLE technology.

▶ **Hand-Free Mode**

Hand-free access to keep mobile phone in pocket, no touching required to open door lock.
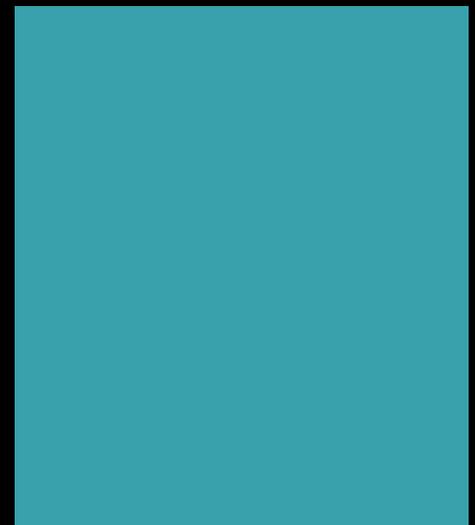
▶ **QR Code**

Present QR code or barcode displayed on smart phone, tablet or paper print to CT9 PRO/CT9E for touch free access control.

▶ **Dynamic QR Code**

CT9 PRO/CT9E with QR Code generator to display dynamic QR code for user to scan by smart phone or Pad.

▶ **RFID Smart Card**

Present RFID smart card to CT9 PRO/CT9E with less than 10cm reading range, compatible to DESFire EV1/EV2, Mifare, HID® card etc.

▶ **Secure Pincode**

Enter pincode on touch screen, or combination with other modes for advanced secure identification.

CT9 PRO/CT9E Solutions

Appointment Booking and Visitor Access Control

Server centralized access control and visitor management, appointment booking and function room reservation solutions

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Access Control & Time Attendance

Cloud server centralized HR labor attendance management, real-time staff working time track and payroll solutions

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Membership Management

Self-service experience is becoming more and more popular for different membership levels in different localities.

>>LEARN MORE

Car Parking Access Control

Smart car Parking access control system provides multiple credentials options flexible for different types of users, avoiding unauthorized vehicle enter or exit parking, protect building property safety

>>LEARN MORE

New Sport Court Automat

New sport court automat terminal for court reservation, access control, light control, rental and vending solutions

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IoT & Facility Control

Smart IoT access control terminal with relay control to interface a machine and enable only authorized staff to operate the machine in a workshop environment.

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Turnstile Access Control Security System Solution

CT9 PRO/CT9E a smart cloud remote controlled access control terminal provides an effective and agile physical access control solution for turnstile integration.

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Queue Mangement Solution

Queue management is to manage visitors and waiting lines to improve visitors or customers experience and staff productivity.
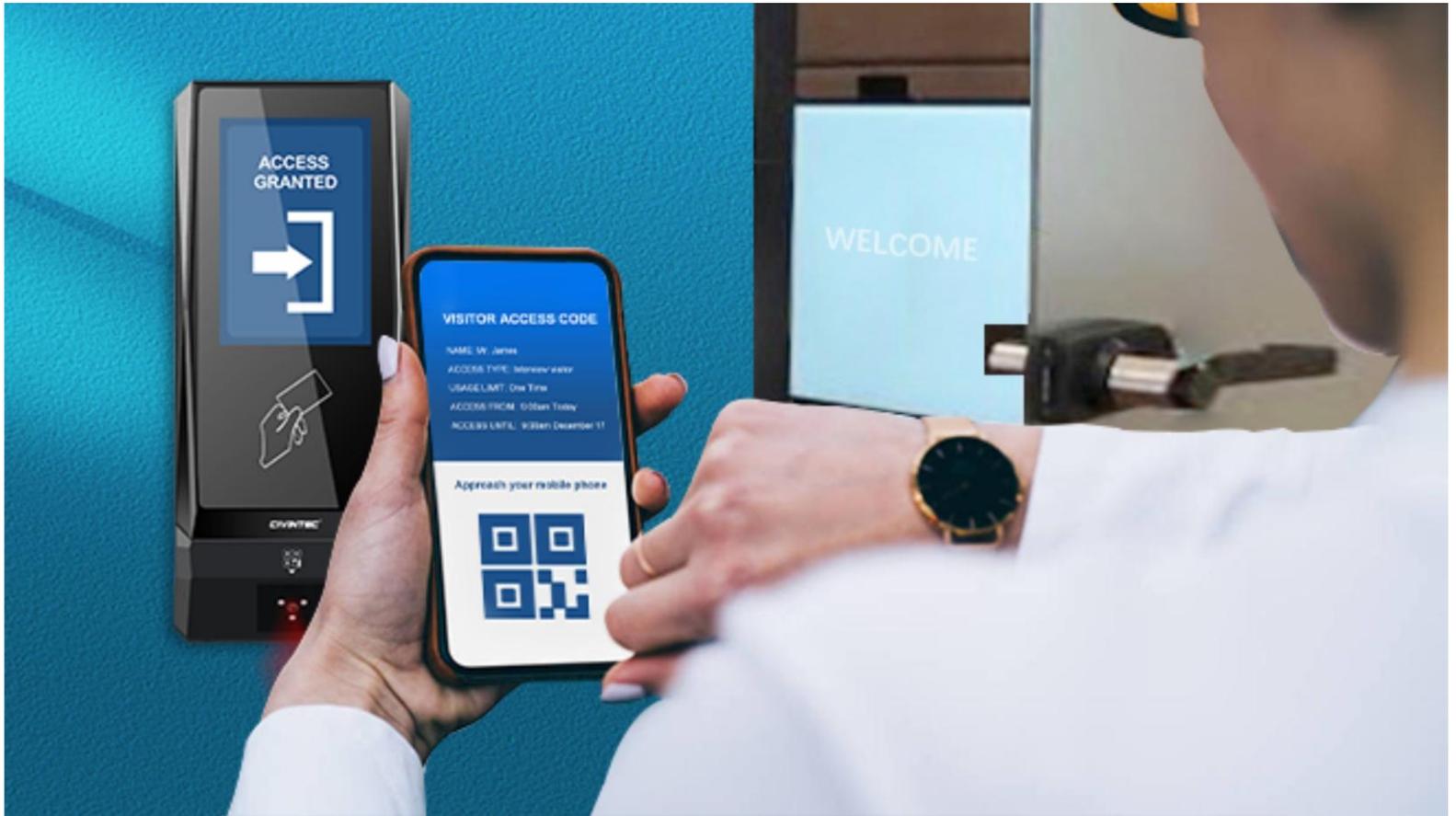
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Campus Solution

CT9 PRO/CT9E for campus to manage a variety of elements like classrooms, laboratories, lecture halls, dormitories, recreational facilities and school canteen or cafeteria equipped with new technologies.

>>LEARN MORE

Appointment Booking and Visitor Access Control

CT9 PRO/CT9E is intelligent AII-IN-ONE reliable door access control terminal with programmable Linux software and SDK for the third party software integration, ideal for server centralized access control management, visitor management, appointment booking and function room reservation solutions.

Multiple Credential Technologies

To facilitates appointment bookings, HOST/server remotely create and send a credential to visitor's smart phone with valid date/time and location for the booking. CT9 PRO/CT9E supports 5-in-1 multiple identification technologies to read and verify the time-limited QR Code, Pin code, BLE/NFC code or RFID card ID to access the restricted areas. It also supports any combination of credentials, like QR code and/or Pincode to give high secure protection or flexible credential choose which can be created according to different visitors.

CT9 PRO/CT9E is designed with first-class QR code scanner module with wide scanning view, fast scanning speed and high sensitive to read older phone with low-resolution Code image for high-quality user experience.

Access Control

CT9 PRO/CT9E verify visitor's credential to check the permissions. With relay output and two inputs (door contact, door exit), CT9 PRO/CT9E controls electronic lock or turnstile to give access, and display "ACCESS GRANTED with valid time" on 3.5" touch screen. The code can also be set with an expiration after the scheduled booking is due to finish. If an expired code is presented or incorrect location, CT9 PRO/CT9E will deny the access and display "Access Denied with failure reason" and guide visitor to do following actions.

Online HOST Mode & Standalone Local Mode

CT9 PRO/CT9E supports HOST or Local mode for different solutions requirement. For HOST mode, CT9 PRO/CT9E can be configured to communicate with a web server. It read and POST Code ID with device address and visiting time to server in real-time, and web server verify its validity and give the permission to CT9 PRO/CT9E to allow or deny access. For Local mode, CT9 PRO/CT9E is with memory to store the valid user with ID to verify and check the permissions locally and POST event logs to server.

Wire & Wireless Communication

CT9 PRO/CT9E as a controller terminal with local network TCP/IP connectivity and integrated PoE together with RJ45 port at the back of reader for wall-mount for less wiring and cost effective installation. CT9 PRO/CT9E 4G version also provides wireless communication and flexible installation, do not require network infrastructure on site. You will have a bio-direction communication between CT9 PRO/CT9E and your web server to get all the data synchronize and remotely unlock the door and capable of managing multiple locations doors

3.5" Touch Screen

CT9 PRO/CT9E is ideal for cloud server remote control to send HTTP commands in real time to display image with TEXT to provide numerically and graphically to see booking time and information which offer flexible customization for your innovative booking and access control solutions.

CT9 PRO/CT9E is with embedded QR code generator to display dynamic QR code on 3.5" touch screen. A web-based remote management software can also remotely display QR code on screen for visitor's mobile phone to scan, ideal for online e-payment or access control applications.

Intelligent Access Control & Time Attendance

CT9 PRO/CT9E is All-IN-ONE wireless smart time attendance & access control terminal with all the wonderful features to meet your cloud server centralized HR labor attendance management, real-time staff working time track to calculate workers useful time and payroll solution integration by using SDK and API.

Multiple Credential Technologies

CT9 PRO/CT9E supports 5-in-1 multiple identification technologies to issue new access credential in the most cost effective and easy way, ideal to manage attendance for both of contracted laborer and casual laborer with long-term effective credential card or temporary digital credential with valid date and times issued over the air.

- RFID dual frequency 125KHz & 13.56MHz Mifare® Classic, DESFire® EV1/EV2 smart cards, HID® cards
- NFC & BLE mobile credential by using personal mobile phone
- QR code and Bar code displayed on phone or printed on paper & badge
- Fixed or dynamic pin code fixed or dynamic pincode for staff and visitors.

Access Control & Time Attendance

CT9 PRO/CT9E verify staff and worker by using RFID card or mobile credential to check the permissions. With relay output and two inputs (door contact, door exit), it controls electronic lock, turnstile even for machine and bus to give access to work.

CT9 PRO/CT9E can be used for door opening solutions, and also intelligent time attendance to track and calculate workers useful time. It is intuitive for staff and worker to read the necessary information on 3.5" touch screen, as ACCESS GRANTED, ACCESS DENIED, identified staff's name with real time clock, and work starting- ending time. It's also available to modify reader screen displayable information and customize attendance function key on the smart terminal. CT9 PRO/CT9E is ideal for cloud server remote control to send HTTP commands in real time to display image with TEXT to provide numerically and graphically to see working time which offer flexible customization for your innovative time attendance solution.

Wire & Wireless Communication

CT9 PRO/CT9E as a controller terminal with TCP/IP connectivity and integrated PoE together with RJ45 port at the back of reader for wall-mount for less wiring and cost effective installation. CT9 PRO/CT9E 4G version also provides wireless communication and flexible installation, do not require network infrastructure on site. You will have a bio-direction communication between CT9 PRO/CT9E and your server to get all the data synchronize and remotely control access and time attendance management.

Membership Management Solution

Self-service experience is becoming more and more popular for different membership levels in different localities. Mobile-based access control solution offers a convenient and reliable 24/7 access control system to allow your members use multiple ID credentials for members to access your facility without requiring someone at the front desk. All your membership data can be the real-time synchronization to cloud via HTTP/Https encrypted communication protocols in 4G or Wi-Fi network securely stored for both online and offline work modes, The solution simplify administrators schedule and efficiently manage all member reservations, improving enterprise efficiency and security.

Flexible membership credential options

Provide multiple credentials such as cellphone via BLE or NFC, QR code, or physical RFID smart card for members to access, and dynamic barcode access for those who do not want a card or need access temporarily.

Real time tracking & Increased Data Security

Cloud-based devices supports wire TCP/IP and wireless WAN like 4G, Wi-Fi, BLE internet. Real-time synchronization of member information to the cloud server through HTTP/Https encrypted communication protocol. Automatically track who has attended, Simplify the management of IoT facilities, optimize member bookings and increase efficiency. All data can be managed in Cloud in the strict secrecy measures.

Automated access procedure

Self-service access control system enables members to use mobile apps dynamic code for cashless transactions for visitors, and without requiring someone at site. Membership Management system is primarily used by gyms, fitness and personal training centers, salons, spas and other member-oriented establishments.

High security access

For High security agency, A member access management system supports Mifare, DESFire ev2 and smart cards technologies , combining Wiegand input with APB reader to avoid identity theft and cloning to further improve the security of the organization and protect membership information.

Integrate with third-party software

Integrates seamlessly with customer third party software and hardware, such as management software, email marketing tools, payment system, administrators can manage entire groups of facilities, make different time periods access control and send E-mail notices for members, tracking member's activity, and helps businesses retain customers and grow sales.

Dual relay control

Dual relay outputs separately controlled by server, one for controlling entrance door and another to control other related equipment like space light etc, so that to provide member with a one-stop seamless experience.

Car Park Access Control Solution

Smart car Parking access control system provides multiple credentials options flexible for different types of users, avoiding unauthorized vehicle enter or exit parking, protect building property safety, and ensure secure and smooth traffic flow within your parking area to enhance efficiency. Through Cloud-based remote control, administrator is able to use mobile phone app manage parking access from anywhere anytime. The system combines self-ticketing cashless payment with member management to eliminate artificial corruption and build convenience and streamline business car park management process.

Contactless credential parking

Civintec system support multiple access control credential options, such as smart mobile app via BLE and NFC, QR code, RFID smart card to meet the requirements of different users and visitors with temporary or regular access as well as enhancing vehicle entry security.

Real-time Monitoring

Through wireless and wire 4G, Wi-Fi, TCP/IP interface with Http/https protocol, parking access control system synchronizes car entry and exit records to cloud server in real-time allowing manager to track vehicle movements and access logs, ensure effective parking management and optimize parking space utilization.

Automatic car park management

Self-service parking method enables visitor to use mobile apps QR code, BLE/NFC credentials to process automatic payment for temporary access, this system make the visitor experience smoother and low-cost management to improve efficiency and simplify parking process.

Seamless Integration working in parking

We provides SDK enables access control system into third-party software to works seamlessly integrate to other security systems, involving barrier gates, alarm and monitor camera to build parking Iot solutions, further enhancing security measures to provide a comprehensive access control.

Dual relay control

Dual relay outputs separately controlled by server, one for controlling barrier gate and another for traffic indicating light to regulate vehicles entering and leaving.

New Sport Court Automat
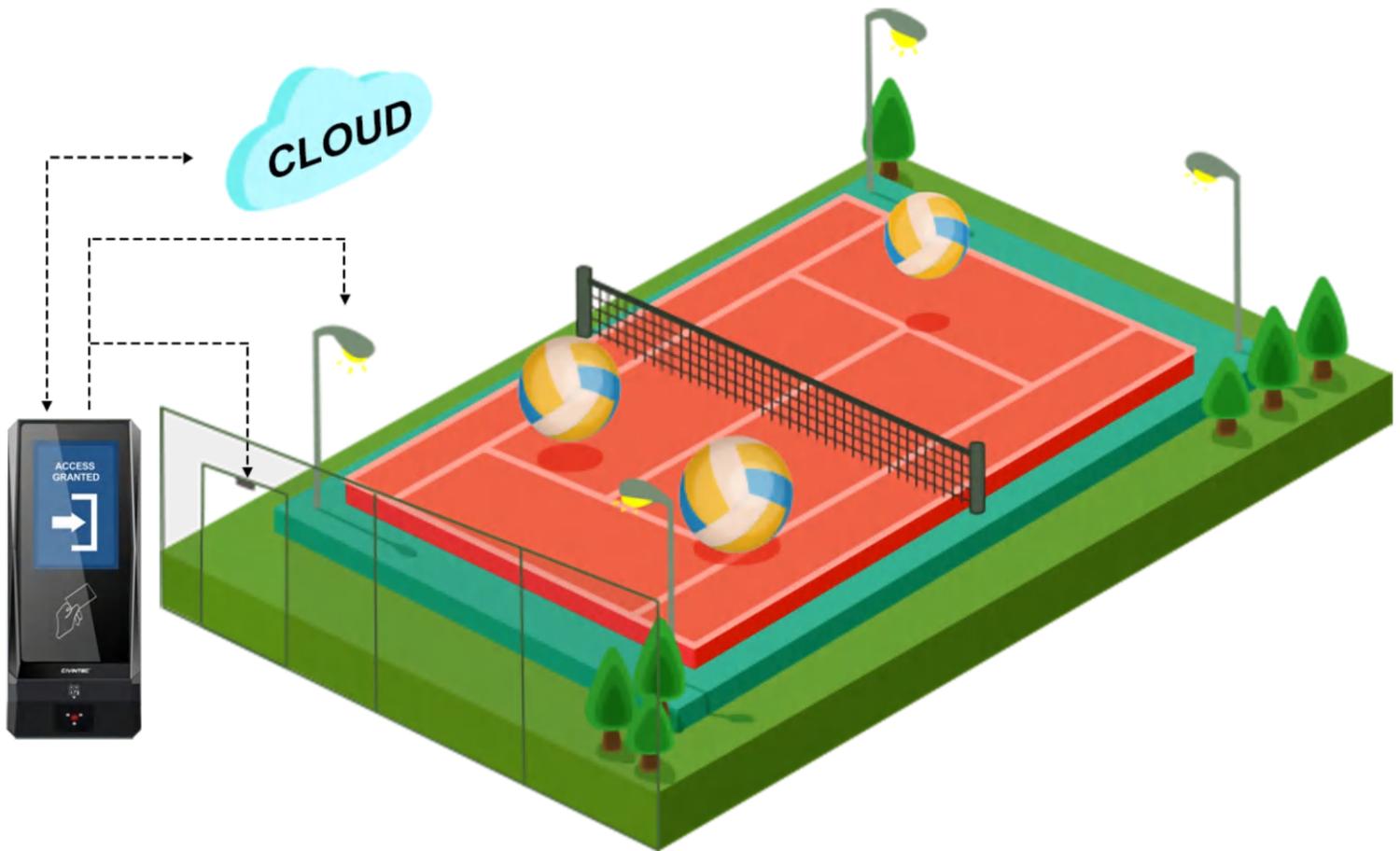
CT9 PRO/CT9E is All-IN-ONE new sport court automat terminal for court reservation, access control, light control, rental and vending. CT9 PRO/CT9E as a controller with integrated 4G and TCP/IP connectivity to cloud-based back-end to get all the data synchronize and commands control. 4G version provides wireless communication and flexible installation, do not require network infrastructure on site. CT9 PRO/CT9E is designed with relay output to control electronic or magnetic lock, or turnstile, and versatile facilities like court light.

CT9 PRO/CT9E manages club member by using RFID club card or member's mobile phone APP to check the permissions, and scan temporary visitor's QR code or barcode displayed on mobile phone or paper printed. It also supports fixed or dynamic pincode for staff and visitors.

With 3.5" touch screen, CT9 PRO/CT9E is intuitive for visitor to check the status of full information as access, payment, booking time etc. It's fully controllable for cloud server software to send commands in real time to display image with TEXT to provide a clear and visible information to visitor, for example, ACCESS GRANTED, ACCESS DENIED, Visitor's Name with clock data. Moreover, CT9 PRO/CT9E is with embedded QR code generator to display dynamic QR code on 3.5" screen for visitor to scan by smart phone or Pad for online payment.

IoT & Facility Control

CT9 PRO/CT9E is smart IoT access control terminal with relay control to interface a machine and enable only authorized staff to operate the machine in a workshop environment.

Before working on a machine, the authorized staff present badge on CT9 PRO/CT9E by using an AES encrypted secure access card to avoid of card clone. CT9 PRO/CT9E check the permissions and log in the staff, identify and record the staff to enable operation of the machine to start. Time of login is recorded by CT9 PRO/CT9E until time of logout. After log out of the staff, CT9 PRO/CT9E remain inactive and do not in any case operate if there's no authorized staff log in by using secured badge. CT9 PRO/CT9E is programmable and controlled remotely by connection to server via TCP/IP or 4G wireless communication. Administrator can also access CT9 PRO/CT9E terminal with authorized password to add new users or override to operate the machine.

CT9 PRO/CT9E is protected by IP65 waterproof and dustproof with wide temperature range from -20 to 60℃ workable in a dusty and humid environment.

Turnstile Access Control Security System Solution
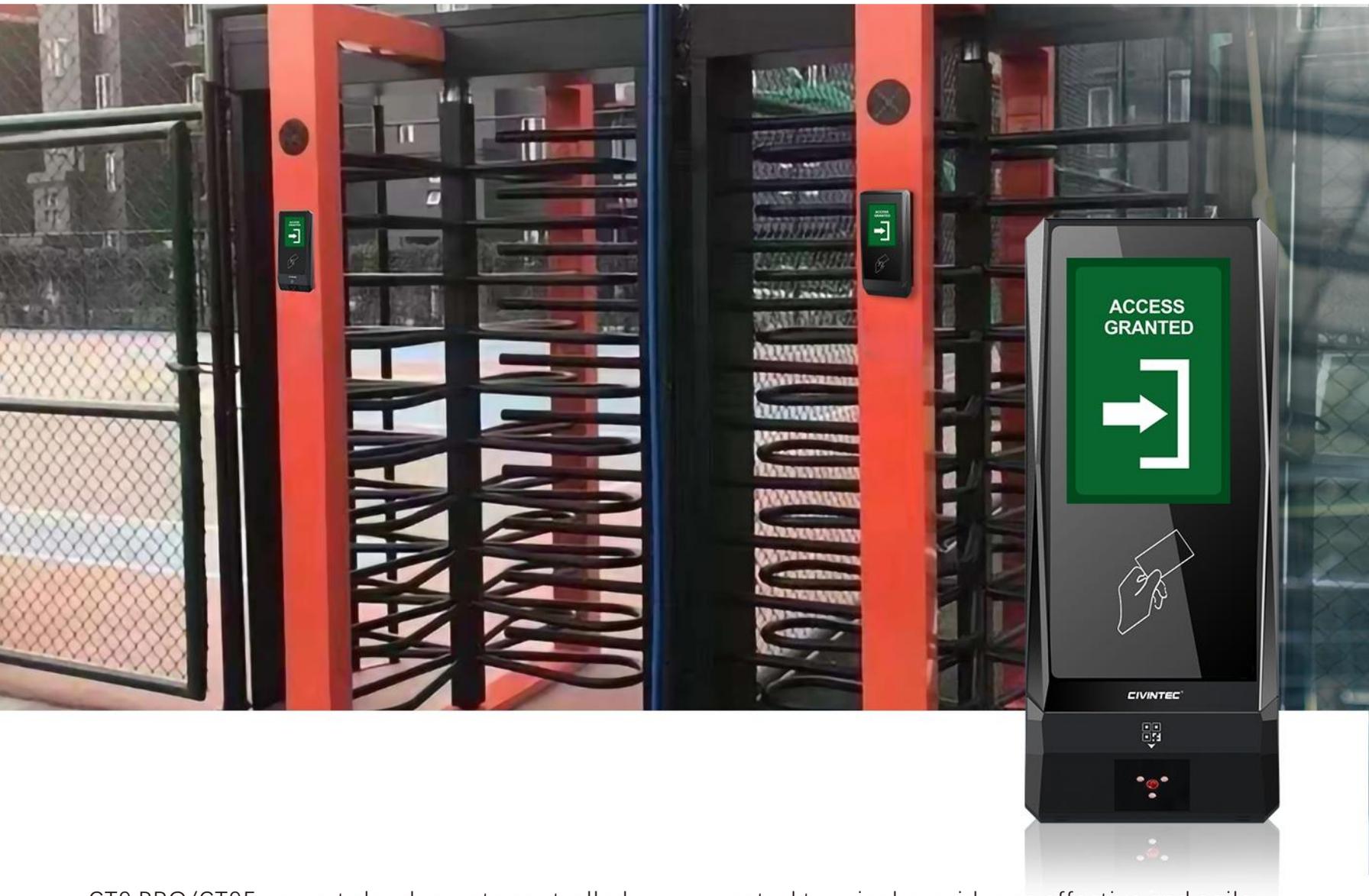
CT9 PRO/CT9E a smart cloud remote controlled access control terminal provides an effective and agile physical access control solution for turnstile integration. It provides multiple technologies to establish effective identity verification and convenient experience for employees, visitors, members, guests who have a various door opening credentials as 125KHz or 13.56MHz RFID smart cards, HID® cards, smart phone mobile credential, one-time QR Code. CT9 PRO/CT9E also provides agile smart remote management solutions for self-service visitor registration, cashless payment and ticket check etc for a seamless and convenient experience.

Access Control

CT9 PRO/CT9E verify visitor's credential to check the permissions. With 1~2 relay output and two inputs (door contact, door exit), CT9 PRO/CT9E controls electronic lock or turnstile to give access, and display "ACCESS GRANTED with valid time" on 3.5" touch screen. The code can also be set with an expiration after the scheduled booking is due to finish. If an expired code is presented or incorrect location, CT9 PRO/CT9E will deny the access and display "Access Denied with failure reason" and guide visitor to do following actions.

CT9 PRO/CT9E is ideal for cloud server remote control to send HTTP commands in real time to display image with TEXT to provide numerically and graphically to see booking time and information which offer flexible customization for your innovative booking and access control solutions. With IP65 ratings, CT9 PRO/CT9E is weather resistant to rain, dust, strong sunlight, ideal for outdoor use, low temperature various rugged working environments.

CT9 PRO/CT9E is with wiegand or RS485 port to connect with access control reader for turnstile IN and Out in a one-way direction access control. Cidron family access control readers are recommend for best performance to achieve an encrypted secured level of smart card and BLE technologies.

Wire & Wireless Communication
CT9 PRO/CT9E as a controller terminal with local network TCP/IP connectivity and integrated PoE together with RJ45 port at the back of reader for wall-mount for less wiring and cost-save installation. CT9 PRO/CT9E 4G version also provides wireless communication and flexible installation, do not require network infrastructure on site. You will have a bio-direction communication between CT9 PRO/CT9E and your web server to get all the data synchronize and remotely unlock the door and capable of managing multiple locations doors.

Customization Service
As manufacturer and designer of CT9 PRO/CT9E, we offer customization service from hardware design to software to well meet CT9 PRO/CT9E technologies integration into your turnstile device. Today the competition is very tough in many markets, making it increasingly more important to stand out from the crowd and therefore we also offer the opportunity to profile your access control devices for increased recognition. You can program your company LOGO to display on 3.5" touch screen or print LOGO on terminal body. This way, you get the readers to follow your or your customer's graphic profile.

Queue Mangement Solution

Queue management is to manage visitors and waiting lines to improve visitors or customers experience and staff productivity. CT9 PRO/CT9E intelligent terminal is perfect to deal with the challenges to make effective self-service queue management.

- With touch screen design, CT9 PRO/CT9E bring intuitive experience for visitors to do check-in based on self-service. A real-time information displayed on touch screen provides visitor a clear feedback and guidance, for example if he arrive to the right destination at the right time or the ticket is valid or not. All the information can be fully controlled by management software remotely in real time according to the visitor's authentication and personal data.

- CT9 PRO/CT9E support 1 or 2 doors lock access control and online working mode under server remote control to get all the visitors and check-in information in real time, ideal to supply the data for analytics and remote access control.

- CT9 PRO/CT9E supports multiple identification technologies at the same device, highly compatible to various credentials from visitor, customer or regular staff. With embedded QR code scanner, CT9 PRO/CT9E scan visitor online appointment ticket no matter printed on paper or mobile phone screen in fast speed to reduce waiting time. CT9 PRO/CT9E is highly compatible to most popular RFID smart cards on the market, from 125KHz to 13.56MHz Mifare, DESFire EV3 and HID® iCLASS SEOs cards, mobile virtual card.

- CT9 PRO/CT9E is with RJ45 port and Power Over Ethernet(PoE) for less wiring and cost-save installation. Wireless 4G perfect for various usage occasions with less network on site. With IP65 ratings, CT9 PRO/CT9E is weather resistant to rain, dust, strong sunlight, ideal for various rugged environments installations.

Campus Solution

Campus management is more complex than ever before. A physical campus needs to manage a variety of elements like classrooms, laboratories, lecture halls, dormitories, recreational facilities and school canteen or cafeteria equipped with new technologies for personal identification, access control, membership management and cashless payment. CT9 PRO/CT9E is All-in-One access control and IoT smart terminal with customizable platform to meet various campus requirements.

Access Control

A physical campus has many different roles to be considered to juggle the needs of them, including students, faculty members and visitors etc. Consider different security levels and convenient methods, CT9 PRO/CT9E support multiple identification technologies give the right access method for different roles, by using RFID smart card, or hand-free access with personal smart phone credential for regular students or faculties, one-time door opening QR Code for visitors, and encrypted secure card plus password for high security rooms.

CT9 PRO/CT9E supports HTTP/HTTPs protocol to be controlled by server software in real time. It's convenient for administrator to authorize access ID with an expiration. If an expired code is presented or incorrect location, CT9 PRO/CT9E will deny the access and display "Access Denied with failure reason" and guide visitor to do following actions, ideal to manage online reservation and access control for swimming pool, a gym, and a tennis court. CT9 PRO/CT9E comes with SDK to allow customer for 3rd party software integration and link to school database. CT9 PRO/CT9E support multiple identification technologies give the right access method for different roles, by using RFID smart card, or hand-free access with personal smart phone credential for regular students or faculties, one-time door opening QR Code for visitors, and encrypted secure card plus password for high security rooms.

Time Attendance System in Schools

CT9 PRO/CT9E supports HTTP/HTTPs communication to report attendance logs to server for remote server online time attendance management to track attendance for students, and allow faculty to easily track students attendance, all the logs such as absent/present/leave/late are in real time. Studend present smart card to enter/leave the school, CT9 PRO/CT9E records entry/exit of students during specific operating hours and upload logs to server management software and send SMS message alert to notify parents. CT9 PRO/CT9E also support customizable functions keys to records the leave reason to track the time for students and faculties.

Canteen & Cafeteria

CT9 PRO/CT9E is intelligent for cashless payment to debit a charge on the students campus account for meal/buffet when they enter canteen via a barrier gate by using RFID smart card or mobile phone APP wallet. With 3.5" touch screen, CT9 PRO/CT9E is intuitive to display students campus account balance when student check his account. It's able to set valid date and time for the charge and access control, and each of CT9 PRO/CT9E has its unique device address to identify the terminal for multiple terminals management in the system. CT9 PRO/CT9E offers SDK with communication protocol to connect terminals to customer's exsiting campus database.

CT9 PRO/CT9E is with customizable function keys to set for its specific function and the amount to charge for each food type, such as lunch buffet, noodle bar, salad bar etc.

Campus Bus & Car Parking Managment

CT9 PRO/CT9E supports 4G wireless communication for SMS alert. Student get on campus bus and read student card to pay for bus. When CT9 PRO/CT9E read and send campus card ID to server software and active SMS alert to student parent. CT9 PRO/CT9E is with build-in relays to control boom gate opener and visual indicator for car access control and payment for parking lot. With IP65 ratings, CT9 PRO/CT9E is weather resistant to rain, dust, strong sunlight, ideal for rugged parking lots environments installations.

Customization & Development

DESIGN YOUR
OWN PRODUCTS

- OEM LOGO Printing
- Hardware New Technologies
- Housing Design
- Firmware & Software
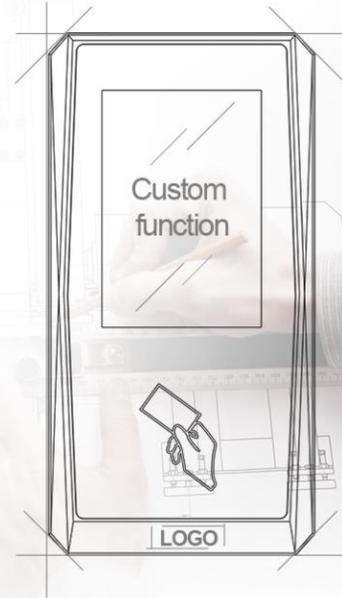
Today, the competition is very tough in many markets, making it increasingly more important to stand out from the crowd and therefore we offer technical development service to customize CT9 PRO/CT9E to meet your solution or project's specific requirements. With CIVINTEC unique Technical Platform and sustainable and reliable product development process, we offer customization from hardware including new housing design, firmware to software development, with a short time to market and in cost efficiency. CIVINTEC is the excellent technical partner to help you with your intention for product & solution innovation.

1 **Pre-study & specifications**

2 **Conception & innovation**

3 **ID design & architecture**

4 **Electronic & mechanical design**

5 **Prototyping & evaluation**

6 **Manufacturing & industrialization**