

Access Control Terminals for Multi-industry Solutions



Comprehensive security access control devices selection and various solutions guide CT11/CT10/CT9 Family

CIVINTEC CT-family is all-in-one Linux based access control terminal designed for diverse applications and industries. Supporting facial recognition, NFC/BLE mobile credentials, RFID, QR code, and PIN authentication, it enables secure, touchless access in corporate offices, schools, residential buildings, factories, gyms, retail, and hospitality venues. It features with wire & wireless communications, to build cloud server centralized & remote control solutions flexible and unlimited for various installation occasions. Its built-in SDK allows easy integration with third-party systems, empowering developers to create customized solutions for access control, time attendance, visitor/membership management, and smart facility automation. With support for real-time monitoring, remote management, and branded user interfaces, CT smart terminals deliver a flexible, scalable platform ideal for modern smart environments across multiple sectors.

CT Family Multi-Technology Identifications

CT-family terminals incorporate 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.



► Biometric Recognition

CT11 support touchless secure access with facial recognition



► NFC Mode

Present NFC mobile credential to CT-family terminals like traditional RFID proximity smart card.



► BLE Remote Control

Use BLE mobile credential to remote control CT-family terminals with in 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.



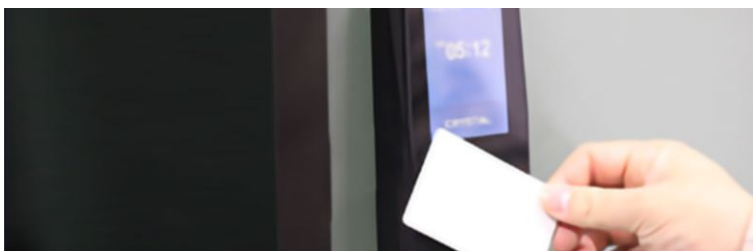
► QR Code

Present QR code or barcode displayed on smart phone, tablet or paper print to CT-family terminals for touch free access control.



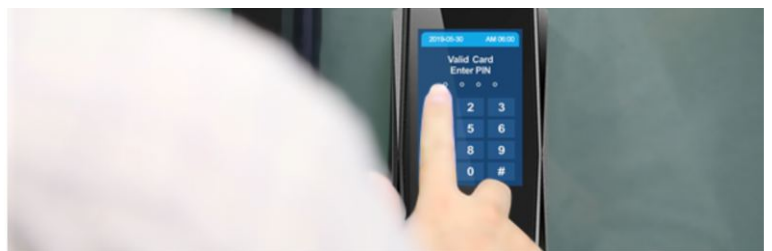
► Dynamic QR Code

CT-family terminals 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 CT-family terminals with less than 10cm reading range, compatible to DESFire® EV1/EV2/EV3, Mifare, HID® card etc.



► Secure Pincode

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

CT-family Terminal Solutions



Access Control

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Time Attendance

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Membership

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Facility Control

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Gym & Fitness

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Multifamily Residential Apartment Access Control

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Campus & Education

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Industrial Access Control Solution

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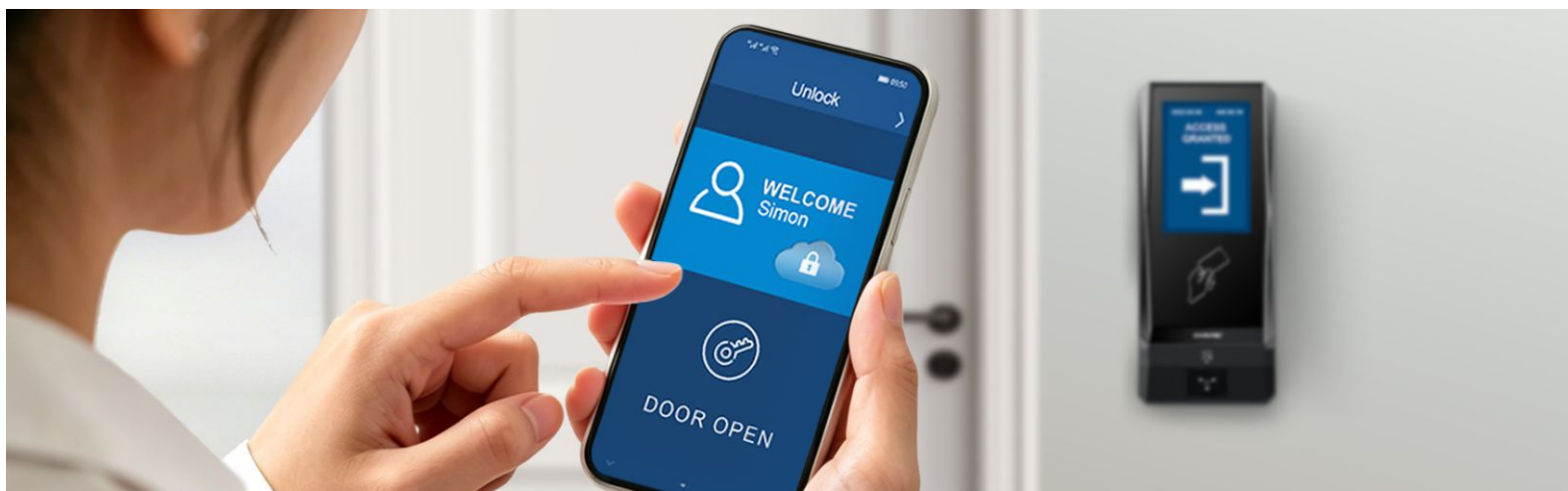


Customization & Development

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Access Control

CT-family smart terminals are a range of wire and wireless cloud access control system products using innovative and advanced encryption technologies to identify and control access for various applications from small business to enterprise-wide, networked or standalone systems. CT terminals protect the buildings by only authorized people and manage the access remotely from anywhere and anytime, widely used at office, factory, condominium & apartment, campus & school, data center, gym, tennis court, construction for outdoor/indoor usage occasions. And the devices offer multiple touchless identification technologies for hand-free access control.



Cloud Centralized Management

CT access control terminals enable cloud-based remote management, allowing door access control and real-time entry monitoring from anywhere to ensure efficient, centralized supervision across zones.

- **Real-time remote control-Host Mode verification:** Server remotely authenticates credentials, verifies permissions, and authorizes door unlock, ensuring secure centralized control and accurate access logging.
- **Autonomous local verification:** Under offline, access terminal verifies identities, grants access, and stores all events locally with thousands of encrypted user credentials.

Role-based Access Control Management

CT access control terminals support multi-identification technologies from biometric facial recognition to RFID/Mobile/QR credentials for different role-based visitors to enhance security and efficient experience for everyone.

Secure & Smart Access Management

- **Instant alarm triggering:** Transforms access events into actionable data: track entry, flag denials/expired credentials, detects forced entries/tailgating, monitors doors, triggers tamper alarms, and provides real-time alerts with logs for enhanced security.
- **High security for critical zone:** CT access control terminal anti-passback APB function protects both sides of an access point and operates seamlessly with room interior relay-enabled card readers for exits. With auto camera, CT terminal provides a definitive visual record by capturing a high-resolution snapshot during every access attempt—whether granted or denied.
- **Toggle function for public zone:** delivers centralized command over door states to switch any door or an entire zone between Secure, Open, and Locked modes, either on-demand or per a schedule.

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Time Attendance

CT-family smart terminal are ideal for modern time attendance solution to simplify employee work schedule management and tracking effective working hours for supervisor to offer timely solutions. Multiple identification options eliminate unauthorized use of others' credentials to prevent buddy-punching and keep business running smoothly. Meanwhile, it is provided with SDK for HR or ERP systems integration and easily checks on work attendance and prevents slow shift changes or time theft to regulate workforce management, ensure precise payroll calculations and cost-save money.

Multiple Credential for Attendance

CT time attendance terminals support multi-identification technologies from biometric facial recognition to RFID/Mobile/QR credentials for different levels of staff to achieve rapid time & attendance management.

Real-Time Data Synchronization

Cloud-based server centralized remote access control time attendance system with real-time data synchronization. Allows unlimited users and event logs under online mode and also supports offline mode. Cloud attendance solution suits multi-role and multi-user configuration and management in medium & large-scale management for quick attendance.

Wireless Attendance Solutions

With 4G LTE, WiFi, and LoRaWAN, CT smart attendance systems deliver reliable connectivity and precise time tracking anywhere for remote outdoor operations, enable real-time programming, monitoring, and updating of all attendance terminals, whether they are installed at fixed site entrances, on mobile work units, or at isolated logging stations. It supports both online/offline modes, ensuring uninterrupted clock-in/out records even in areas with limited network coverage.

Function Key in Attendance

CT smart terminals support customizable Function Key to allow staffs quickly access common attendance operations without navigating through complex menus, simplifies user interaction and enhances the overall efficiency of attendance tracking, as clock in/out, overtime tracking, break start/end...

Stop Buddy Punching

The CT terminals' centralized monitoring and automatic high-resolution image capture during every attendance clock-in/out create a definitive visual record that not only provides audit-proof documentation but also effectively prevents proxy clock-ins by ensuring real-time identity verification through biometric or photo matching, eliminating fraudulent practices like badge sharing while maintaining seamless integration with access logs for complete accountability.

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Membership

Self-service experience is becoming more and more popular for different membership levels primarily used by gyms, fitness and personal training centers, salons, spas and other member-oriented establishments. CT-family smart access control terminals offer a convenient and reliable 24/7 access control system to allow your members to use multiple ID credentials for members to access your facility without requiring someone at the front desk. All your membership data can be 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 simplifies administrators schedule and efficiently manages all member reservations, improving enterprise efficiency and security.

Flexible Member Credential Options

Support multiple technology credentials from biometric facial recognition to RFID/Mobile/QR credentials for members or role-based visitors to enhance security and efficient experience for everyone.

Cloud Membership Management

When a member approaches an access point—whether at a gated community, parking lot, gym or campsite—CT smart terminal can instantly verify their identity and membership status via a Mobile app, RFID card linked to the member's profile. Real-time synchronization with the cloud allows for automatic granting/denial of access based on membership tier, payment status, or visit schedule. Operators can remotely manage member enrollments, renewals, and permissions from a single dashboard. Server centralized access control management is ideal for visitor management, appointment booking and function room reservation solutions.

Self-Service Access and Facility Management

CT smart access control terminals enable members to use mobile apps for access or cashless transactions for visitors without requiring staff at site. It's with multi-relay outputs separately controlled by server to control smart lock and other related equipment like space light etc,. This provides members with a one-stop seamless experience ideal for fully automated, unattended management.



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Facility Control

The use of electronic access control systems in your IoT facilities is essential for maintaining a safe and productive work environment. CT-family smart terminals provide different role visitors with access during pre-set times using a variety of identification technologies, thereby improving the overall security of your facilities and reducing the risk of unauthorized access. This not only protects the security of assets but also enhances operational efficiency. With integrated security and visitor systems, facility manager can remotely control door lock access.

Role-Based Access Control Management

CT terminals support multi-identification technologies from biometric facial recognition to RFID/Mobile/QR credentials for different role-based operators and staff members, ensuring both security compliance and operational efficiency when accessing and controlling equipment.

Centralized Monitoring and Image Capture

CT smart terminals support automatic image capture. By capturing a high-resolution snapshot during every facility activation, the system provides a definitive visual record.

Simplified Management Process

CT facility access control system enables real-time synchronization of access events send to cloud via HTTPs encrypted protocol, allowing facility managers to authorize users to operate device access at any time and without managers on site.

Security Control

With multiple relay outputs, CT facility control system integrates with other security components - to control equipment and alarm, allowing administrator to monitor equipment security anytime and manage devices remotely for a comprehensives security infrastructure.

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Gym & Fitness

The health and wellness sector's need for extreme flexibility has transformed fitness facility operations. Today's consumers reject rigid schedules, expecting workout access that adapts to their lifestyles, work hours, and personal rhythms. For gyms, studios, and specialty venues—from yoga clubs to 24-hour golf simulators—implementing 24/7 access control systems is no longer a premium upgrade but a competitive necessity in our digital-first era.



24/7 Remote Cloud Management

- **Centralized command center:** Manage multiple locations, thousands of members, and diverse access levels from a single, centralized command hub. In an unstaffed 24/7 environment, the ability to manage your facility remotely is essential for scalability.
- **Versatile communication for any location:** By supporting wireless communication, CIVINTEC terminals can be deployed in areas where traditional network cabling is impractical, such as parking lots or outdoor pop-up fitness capsule / fitness pod lacking network infrastructure.
- **Real-time remote control:** Administrators can remotely pre-register visitors by issuing time-limited digital keys to smart phones via a cloud interface, while simultaneously monitoring real-time access, tracking credential usage, door/equipment status, and alarm responses through a centralized cloud platform - enabling complete safety and operational control across multiple locations without requiring physical presence.

Offline Operational Logic for Non-Stop Service

In a 24/7 environment, digital reliability is just as critical as physical security. A sudden network outage—whether caused by a local ISP failure or a router malfunction—should never result in your members being locked out on the sidewalk at 3:00 AM.

- **Zero-Downtime Performance:** CT access control terminals support local working mode. If the internet goes down, the terminal continues to function autonomously, verifying credentials against its internal database without a millisecond of delay.
- **Background Synchronization:** Once the network connection is restored, the system initiates a silent background synchronization, pushing all buffered entry logs and timestamps to the cloud management platform to ensure your attendance and billing records remain 100% accurate.

Automated Unmanned Access and Facility Management

CIVINTEC intelligent terminals go beyond basic access control, serving as the central "brain" of any entry point. By consolidating multiple security functions into one terminal, a high-performance access control terminal with multi-relay outputs enables the integrated control of electronic locks, facility lighting in gym or tennis court ideal for fully automated, unattended management.

- Automated terminal for court, gym, room reservation, rental and vending
- Automated door lock system designed with multi-relay outputs to control E-lock or turnstile, and versatile facilities like court light.

Role-based Access Control Management

CT access control system supports a multi-identification technologies, allowing gym owners to cater to diverse member preferences and specific facility requirements through a single, integrated platform.

- **Members:** gain entry via biometric facial recognition or secure mobile access using encrypted BLE/NFC through their smartphones - eliminating replacement costs associated with physical membership cards.
- **Temporary visitors:** receive time-limited access through dynamically generated QR codes sent to their mobile devices, with automatic expiration after preset durations for enhanced security.
- **Staff personnel:** utilize multi-factor authentication combining mobile credentials with privileged access levels, ensuring secure entry to restricted areas while maintaining audit trails for compliance purposes.
- **High-security areas:** Advanced secure access by multi-factor authentication combining biometrics with Mifare DESFire EV3 smart cards and password.
- **Car parking:** Visitors select a BLE mobile ID and send it to a CIVINTEC reader. This opens the parking gate from up to 5 meters away before the visitor arrives, providing convenient, contactless access.



Detailed Event Logging & Image Record

A professional system provides total situational awareness through a combination of granular data and visual verification.

- **Traceable logs for audit trails:** All access and operation events such as door entries, machine activations, and restricted-area attempts are automatically logged and synchronized to server. The system provides a permanent, time-stamped digital audit trail recording exactly who is in the building, which specific area they accessed, and the exact duration of their stay.
- **Automated image capture:** CIVINTEC access control terminals with built-in camera to support an automatic photo-taking function during entry, capturing an image record that provides vital visual documentation for security and management reviews. This greatly enhances security for low-supervision areas.

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Multifamily Residential Apartment Access Control

Modern residential security is increasingly adopting industrial-grade access control principles—role-based authorization, multi-modal authentication, centralized logging, and resilient operations—because apartment communities have become complex, high-traffic environments with multiple entry points and frequent visitor activity.

Role-Based Access Control Management

Support multi-identification technologies for role-based visitor access, enhancing both security and operational efficiency in residential and multi-tenant buildings

- **Visitors & contractors:** Temporary access uses dynamic QR codes via mobile phones. Residents issue time-limited codes that expire after a timeout.
- **Resident/staff:** Biometric facial recognition or mobile access via encrypted BLE or NFC by using personal smart phone — eliminating the security risk and cost of lost physical cards.
- **High-security areas:** Advanced secure access by multi-factor authentication combining biometrics with Mifare DESFire EV3 smart cards and password.
- **Car parking:** Visitors select a BLE mobile ID and send it to a CIVINTEC reader. This opens the parking gate from up to 5 meters away before the visitor arrives, providing convenient, contactless access.





Access Control with VoIP Intercom

By integrating VoIP intercom functionality directly into access control system, CT terminal creates a unified security platform by utilizing the RTSP for real-time communication across all doors, which delivers an essential layer of identity verification and physical protection.

Cloud Centralized Management

CT smart terminals allow door access control and real-time entry monitoring from anywhere, ensuring your property remains secure and functional 24/7, even when the internet fails. It can remotely authenticate credentials from server in real time to verifies permissions, and authorizes door unlock, ensuring secure centralized control and accurate access logging.

Wireless Access Control for Remote & Outdoor Sites

CT smart access control terminal wireless solutions deliver reliable connectivity for the main gate of the residential complex or parking lot in remote outdoor areas. A unified cloud platform allows for the real-time programming, monitoring, and updating of all access points. Deploy simultaneous OTA updates across your entire network for seamless firmware and software upgrades, removing the cost and hassle of on-site maintenance.

- 4G LTE, GPS, WiFi, and LoRaWAN
- Real-time cloud remote control via HTTP/HTTPS protocol
- OTA upgrades

Automated Unmanned Access and Facility Management

CT terminals go beyond basic access control, serving as the central "brain" of any entry point. By consolidating multiple security functions into one terminal, a high-performance access control terminal with multi-relay outputs enables the integrated control of electronic locks, facility lighting in gym or tennis court ideal for fully automated, unattended management.

- Automated terminal for court, gym, room reservation, rental and vending
- Automated door lock system designed with multi-relay outputs to control E-lock or turnstile, and versatile facilities like court light.

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Campus & Education

As campuses welcome an ever-shifting population of students, faculty, and visitors, the challenge of managing access for a diverse community whose needs change by the hour—from lecture halls and libraries to dormitories and research centers, it requests more intelligent access control solutions to address the unique fluidity and scale of academic life.

Secure & Smart Access Management

CT modern access control systems enable the creation of finely-tuned security zones. This goes beyond basic perimeter control to protect multiple campuses or sensitive areas like research laboratories, residence halls after hours, administrative offices, and health centers. By ensuring only pre-authorized individuals can enter specific spaces at designated times.

Role-based access control management

- **Visitors & contractors:** Temporary access (e.g., contractors, suppliers, assistants) uses dynamic QR codes via mobile phones. Administrators issue time-limited codes that expire after a timeout. Unlike static codes, these cannot be screenshots or shared, ensuring only authorized guests enter.
- **Students:** Mobile access via encrypted BLE or NFC by using personal smart phone — eliminating the security risk and cost of lost physical cards.
- **High-security areas :** Advanced secure access by multi-factor authentication combining biometrics with Mifare DESFire EV3 smart cards and password for research laboratories and data centers.
- **Car parking:** Visitors select a BLE mobile ID and send it to a CIVINTEC reader. This opens the parking gate from up to 5 meters away before the visitor arrives, providing convenient, contactless access.



24/7 Cloud Centralized Management for Access Control

Managing the access rights of thousands of students, faculty, staff, and visitors across dozens of buildings or multiple campuses is a monumental logistical task. A centralized platform eliminates the inefficiency and vulnerability of physical keys or disparate card systems.

- Managers can real-time track access logs and personal activities for remote control multi- room/building on campus. CT access control terminals can be authorized according to different roles, allowing only authorized personnel to access specific areas. For example, campus gate, dormitory, classroom, dining, computer room, library, parking lot, sport court, supermarket, etc.

Campus Time and Attendance

Manual roll calls are slow and prone to errors or proxy attendance. CT smart terminal at classroom entrances turn attendance into a seamless, data-driven process.

- **Real-time presence verification:** Students simply "tap-and-go" using their RFID cards or mobile BLE credentials. The system captures attendance data in milliseconds, allowing professors to maximize instructional time.
- **System integration:** CIVINTEC access control terminal acts as a data bridge, feeding real-time attendance logs directly into the university student information systems. This automation allows for the immediate identification of absenteeism patterns.
- **Faculty & staff payroll optimization:** Beyond students, the access control terminal tracks the real working hours of faculty and administrative staff, enabling accurate payroll processing.

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Industrial Access Control Solution

An intelligent access control system built for industrial environments not only protects personnel but also ensures critical machines remain guarded, valuable assets visible and accounted for, and hazardous zones are precisely controlled. By integrating personnel authorization, device operation control, and real-time monitoring into a centralized platform, CIVINTEC industrial access control solution establishes a secure, efficient, and effective foundation for modern industrial operations.

Role-Based & Shift-based Authorization

CT smart terminals support multi-identification technologies for diverse roles in industrial environments such as inspectors, operators, contractors and visitors, each requiring different access rights to enhance security and efficient experience for everyone. Access can be defined by working hours, scheduled tasks, or machine usage plans. This avoids after-hours operation, reduces unattended risks at night or during holidays.

Cloud Centralized Management

CT access control terminals enable cloud-based remote management, allowing door access control and real-time entry monitoring from anywhere to ensure efficient, centralized supervision across zones. Administrators can remotely manage permissions, review credential activity, track machine status, and respond to alarms through a cloud-connected management platform. With real-time data synchronization over TCP/IP or wireless 4G, WiFi or LoRaWAN via encrypted HTTPS protocol, the system keeps teams to maintain consistent safety and operational control across multiple sites without being physically present.

When the network is interrupted, access control devices automatically switch to local mode to continue to function using locally stored permissions and recording the events. This ensures operations remain uninterrupted, particularly on remote sites or environments with unstable connectivity.

Deploy simultaneous Over-the-Air (OTA) updates across your entire network for seamless firmware and software upgrades, removing the cost and hassle of on-site maintenance.



Secure & Smart Access Management

- **High security for critical zone:** Access to R&D labs, production lines, chemical storage rooms, and other hazardous or sensitive zones is restricted to trained and certified personnel. This area-based access prevents untrained staff from entering unfamiliar spaces and significantly reduces safety incidents caused by unauthorized access. CT access control terminal provides anti-passback APB 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 relay-enabled card readers for exits.

- **Traceable logs & image record:** All access and operation events such as door entries, machine activations, and restricted-area attempts are automatically logged and synchronized to server. CT access control system supports image record functionality, with built-in camera capturing photos during verification to link visual proof to each record. This greatly enhances security for asset warehouses, hazardous zones, and low-supervision areas.

Facility Control & Equipment Management

To mitigate operational risks and ensure regulatory compliance, access to sensitive or high-value machinery must be strictly governed. CT access control system enforces this by granting permissions based on verified employee qualifications and certifications. This ensures that only authorized and properly trained personnel can operate critical equipment, preventing unauthorized use and reinforcing a culture of safety and accountability.

Machine access is governed by a strict protocol that ties physical control to digital identity. When an operator presents authorized credential, CT terminal first validates his permission before enabling any machine functions. This creates a secure, identity-bound session where all usage event is logged. The terminals are equipped with 1 or more relays to start the machine. Once work finished, the operator tap "End" or "Close" on touch screen to active relay to shutdown the machine. The session terminates—and machine control is instantly revoked—upon logout, a critical measure to prevent accidental or unauthorized operation. This end-to-end traceability, from login to shutdown, forms a robust framework for accountability and asset protection.

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CT-Family Access Control Products



CT11

Facial Recognition Access Control Terminal with VoIP

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CT10

3.5" Touch Screen Terminal with VoIP and Camera

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CT9 PRO

3.5" Touch Screen Terminal

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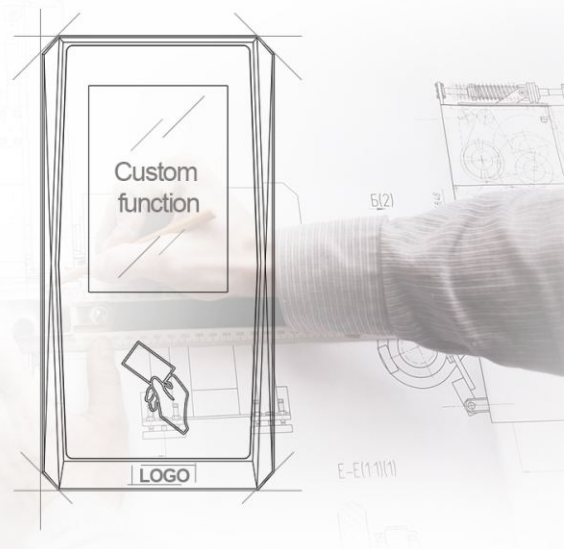
CT9 E

Touch keypad Terminal

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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 CT-family terminals 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.