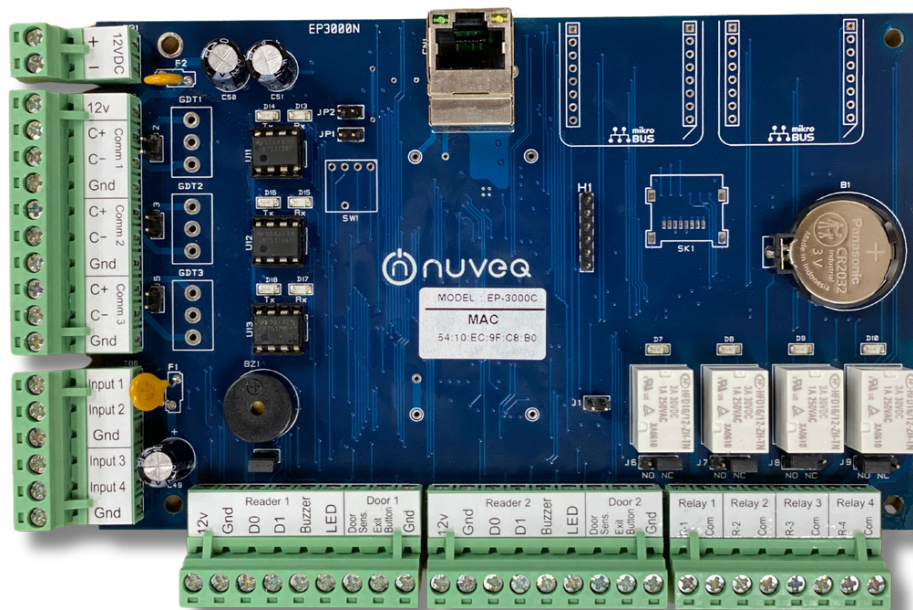


# NUVEQ SMART IOT CONTROLLER EP - 3000C

Next-generation IoT controller offers unparalleled connectivity for your devices, ensuring that your operations run seamlessly.

# INTELLIGENT CONTROL FOR SECURE ACCESS

Control Your World  
with NUVEQ Smart IoT Controller



# NEXT-GENERATION ACCESS CONTROL READER

## EP - 30NBQ








The Nuveq Smart IoT Door Access System Controller is an advanced solution designed to bring intelligent, centralized control to your access management systems. This controller seamlessly integrates with IoT-enabled door access devices, providing a unified platform to manage entry points across your facility.

Equipped with cutting-edge technology, the Nuveq controller supports a wide range of access methods, including RFID, mobile credentials, biometric data, and more. Its robust architecture ensures reliable performance and quick response times, enabling efficient access control operations.

Ideal for commercial buildings, residential complexes, and industrial facilities, this controller offers a scalable and future-proof solution for managing door access systems. Experience the next level of security and convenience with the Nuveq Smart IoT Door Access System Controller.

---

## KEY FEATURUES

-  **Multi-Method Access**  
Supports various access methods including RFID, mobile credentials, biometric data, and more
-  **Remote Management**  
Provides a user-friendly interface for remote configuration and monitoring, allowing for real-time adjustments.
-  **Real-Time Monitoring**  
Offers real-time monitoring and alerts to keep track of access activities and system status
-  **Over the air update(OTA)**  
Seamless and convenient firmware updates without the need for physical intervention ensures that system stays with the latest security enhancements, performance improvements, and feature upgrades.
-  **Fire alarm integration**  
seamless integration with fire alarm systems, enhancing overall building safety and emergency response capabilities.
-  **Anti-Passback support**  
Supports both local and global anti-passback features, providing advanced security measures to prevent unauthorized access and misuse of entry points.
-  **Door Interlocking System**  
An interlocking door system uses a 'vestibule' between the secured area and the unsecured area, with a lockable door between each area and the vestibule.

## SPECIFICATIONS

### ARM Cortex M4 controller

- 150 MHz core clock
- 1Mb Program Flash Memory
- 192k SRAM

### 10/100 Ethernet Port

- Dynamic IP from DHCP server
- Guaranteed globally unique MAC address
- No individual network configuration required for every controller.
- ESD protection on Network port pins.

### Realtime Clock

- Battery backed (CR2032) to ensure time keeping if controller is switched off.

### Large card and transaction database

- 130,000 card users
- 130,000 transaction buffer.

### Flexible access options

- 65535 Access levels
- 256 weekly time zones
- 256 daily time sets, each with 4 intervals

### Serial ports

- 3 RS485 serial ports, protected against surges, over-voltage and ground faults

### Card reader ports

- 2 Wiegand card reader ports, supporting Wiegand 26/34/44 bit card readers
- Serial reader support for readers with extended functionality or custom functions

### Additional Specification

- On board buzzer for troubleshooting and local indication.
- Resettable fuses protection on incoming power supply and card reader ports
- CE, UKCA, RoHS

### Inputs

- 2 door sensor inputs
- 2 REX pushbutton inputs
- 4 general purpose inputs
- Buffered inputs to provide high noise immunity
- Expandable with EP-16IO board

### Outputs

- 4 Relay outputs, switchable to NO or NC operation.
- 2 card reader LED outputs.
- 2 card reader Buzzer outputs.
- Expandable with EP-16IO board up to 256

### Operation modes

- Single door mode
  - with Entry reader and Exit reader or pushbutton
- Two door mode
  - with Entry reader and Exit push button
- Two door mode
  - with entry and exit reader for both doors (using Nuveq EP30 serial readers).
- Elevator mode
  - Single or dual reader. 4 on-board relays for low rise applications or expandable up to 80 floors with add-on EP-16IO board
- Barrier mode
  - Two barriers for turnstile, flap barrier or carpark applications

### Expansion options

- Serial expansion boards
- 2 plug-in modules for additional functionality (4G/Wifi Module)

# System Architecture

