NUVEQ

NUVEQ
BLE/NFC/MIRFARE/QR
READER
E P - 3 0 N B Q

NUVEQ Multi-Technology Readers
BLE, NFC, Mifare, QR - Versatile Access Solutions

CLOUD-BASED ACCESS CONTROL SYSTEM | MOBILE ACCESS

EASY, SECURE

Unlock Versatility with Advanced,
Multi-Protocol Access Readers

BLE (Bluetooth Low Energy)

QR code (Dynamic QR code)

NFC (Near Field Communication)

nuv Card (AES 256 encryption)

NFC

MIFARE

Download on the App Store

GET IT ON Google Play

Download on AppGallery

NEXT-GENERATION ACCESS CONTROL READER
EP-30NBQ

The Nuveq BLE/NFC/Mifare/QR Reader is a versatile, multi-technology access control solution designed to meet the diverse needs of modern security systems. Supporting Bluetooth Low Energy (BLE), Near Field Communication (NFC), Mifare, and QR code technologies, this reader offers unparalleled flexibility and convenience for users. Its advanced encryption protocols provide robust security, ensuring that all communications are protected against unauthorized access.

Whether you are managing a corporate environment, residential complex, or any secure facility, the Nuveq BLE/NFC/Mifare/QR Reader delivers a future-proof solution that supports a wide range of credentials. Its user-friendly design allows individuals to choose their preferred access method, whether through a smartphone app, smart card, or QR code, making it a cost-effective and efficient choice for any access control system.

CORE TECHNOLOGIES

Multi-Technology Compatibility
Supports BLE, NFC, Mifare, and QR code technologies, providing flexible access options

AES-256 encryption
Utilizes advanced encryption protocols to protect communication between the reader and access control systems.

User-Friendly Operation
Simple and intuitive for users, allowing access via smartphone, smart card, or QR code

Fast & Easy Contactless Solution
Delivers a swift and effortless contactless access experience that enhances convenience and safety across any facility

Remote Management
Administrators can effortlessly monitor, update, and manage access permissions from anywhere, reducing the need for on-site interventions and ensuring real-time control and oversight

iOS & Andriod Supported
Fully compatible with both iOS, Android and HarmonyOS devices, providing users with the flexibility to access secured areas using their smartphones

NUVEQ.NET

Made In Malaysia · CE · RoHS COMPLIANT

SPECIFICATIONS

ARM Cortex M4 controller
- 150 MHz core clock
- 128k Program Flash Memory
- 22k SRAM

RealTime Clock
- Super capacitor backup to ensure time keeping
- if reader is switched off.
- Automatic time synchronization from EP3000C controllers.

Serial ports
- 1 RS485 serial port, protected against surges, overvoltage, and ground faults.
- AES 256 encrypted communications to/from EP3000C models.

Inputs
- 1 Arming input to enable credential reading.
- 2 inputs from third party controllers (LED & Buzzer).
- Buffered inputs to provide high noise immunity.

Outputs
- 1 OC output, able to drive an external relay (optional).
- 1 Wiegand output (34bit) to connect to third party
- access controllers

Operation modes
- Bluetooth credential reader, using Nuveq Mobile Access app.
- NFC & Mifare Serial number reader
- QR Code (EP-30NBQ)

Reading range for Bluetooth credentials
- Adjustable from 40cm to 8m

Installation
- Easy installation via RS-485 wiring, compatible with legacy Wiegand wiring, to the EP-3000C access control unit (ACU).

Bluetooth
- Bluetooth Low Energy 5.2.
- Support for multiple concurrent connections.
- AES 256 Encrypted data exchange.

Arming options
- Always armed (continuous reading)
- Arming by external trigger.
- Arming by touch (capacitive sensing).
- Arming by NFC proximity.
- Arming by optical Time-of-Flight sensor, with variable trigger range from 20cm – 2m

Security features
- AES 256 encryption with code-hopping used throughout all data exchanges.
- Encrypted credential exchange between Nuveq Mobile App & EP30-NB. Random code hopping in every exchange prevents replay attacks.
- Encrypted communications over RS485 between EP30NB & EP3000C controllers. Immune to malicious tapping on serial line.
- Customer code locking, ensuring only valid Bluetooth credentials authorized can be exchanged with reader - no nuisance invalid access events from unauthorized credentials.
- Multiple concurrent Bluetooth connections prevents a single device from causing device lockup.
- Automatic disconnection and blocking of connection attempts from unauthorized devices.
- Mifare & NFC support can be disabled to enforce use of secure Mobile Credentials.

System Compatibility
- Full-featured operation when combined with EP3000-C
- controllers and Nuveq Cloud Access Management Portal.
- Wiegand 34 output allows compatibility with virtually any
- third-party access controllers.

- 11 -14.5v DC operation.
- On board buzzer for troubleshooting and event indication.
- Multicolour LED for event and status indication.
- Resettable fuses for protection on incoming power supply.

OPERATION MODE

BLE Mobile NFC(android)

Dynamic QR Code

Encrypted NFC

Mifare Card

DIMENSION

87.50mm

87.50mm

87.50mm

87.28mm

12.00mm

8.7mm