

NEXU-X

EP-10NBQ

BLE/NFC/MIRFARE/QR READER

Ultra-Secure Multi-Protocol Encrypted Reader
BLE 5.3 | NFC Type V | Dynamic QR | AES-256

EASY, SECURE

Unlock Versatility with Advanced,
Multi-Protocol Access Readers

NFC + BLE 5.2
(Bluetooth Low
Energy)
EP-10NB

NFC + QR + BLE 5.2
(Bluetooth Low
Energy)
EP-10NBQ

NFC (Near Field
Communication)
(AES 256 encryption)
EP-10N

NFC + QR code
(Dynamic QR code)
EP-10NQ



NEXT-GENERATION ACCESS CONTROL READER

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

SPECIFICATIONS

Arm Cortex-M33 Trust Zone MCU

- 64MHz core clock
- 1M Program flash memory
- 128k SRAM

Authentication Modes

- BLE (Bluetooth Low Energy 5.3)
- NFC(13.56 MHz): ISO 14443 Type A/B, ISO 15693 (Type V tags)
- QR Code (Static/Dynamic), 2D CMOS Sensor (1280x800 px)
- Biometric Integration(Template On Mobile)

Encrypted Credentials

- Mobile App (BLE/NFC(android)/QR)
- NFC Cards/Tags

Performance

- Read Range: BLE: Up to 2m (Long Range Mode),
- NFC: 0-2cm,
- QR: 2-10cm
- Transaction Speed: <0.8s (BLE/NFC), <0.5s (QR)

Security features

- Encryption AES-256 (End-to-End)
- TrustZone® security Architecture
- Anti-Cloning Tech: Dynamic key rotation for cards/mobile
- Random code hopping in every exchange prevents replay attacks.
- Anti-Spoofing, Secure Boot
- Multi-Factor Auth: BLE, QR, NFC + Biometric
- Secure Bootloader: Signed with ECDSA-P256.
- Automatic disconnection and blocking of connection attempts from unauthorized devices.

I/O & Interfaces

- RS485 serial port, support OSDP protected against surges, overvoltage, and ground faults.
- Wiegand (34bit) to connect to third party access controllers

Power & Electrical Specs

- Voltage Range - 12V DC $\pm 10\%$
- Power Consumption - Standby: 0.5W, Active: 3W (Peak 5W during BLE/NFC scan)

Environmental Ratings

- IP Rating: IP65
- Operating Temp: -30°C to 70°C (-22°F to 158°F)
- Humidity: 10% to 95% (Non-condensing)

Other Features

- On board buzzer for troubleshooting and event indication.
- RGB LED for event and status indication.
- Resettable fuses for protection on incoming power supply.

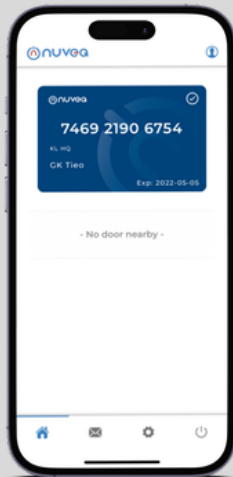
Compliance & Certifications

- MySTI
- MyDigital ID
- EMC: EN 301 489
- Safety: CE, RoHS

General

- Dimensions: 92mm × 65.5mm × 20mm
- Weight: 180g (6.3 oz)
- Material: ABS

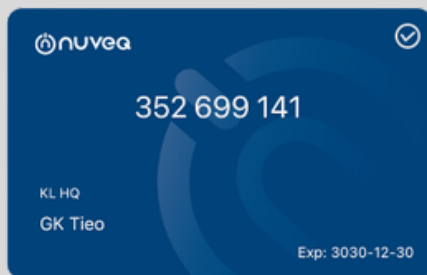
OPERATION MODE



BLE/NFC



**Dynamic
QR Code**



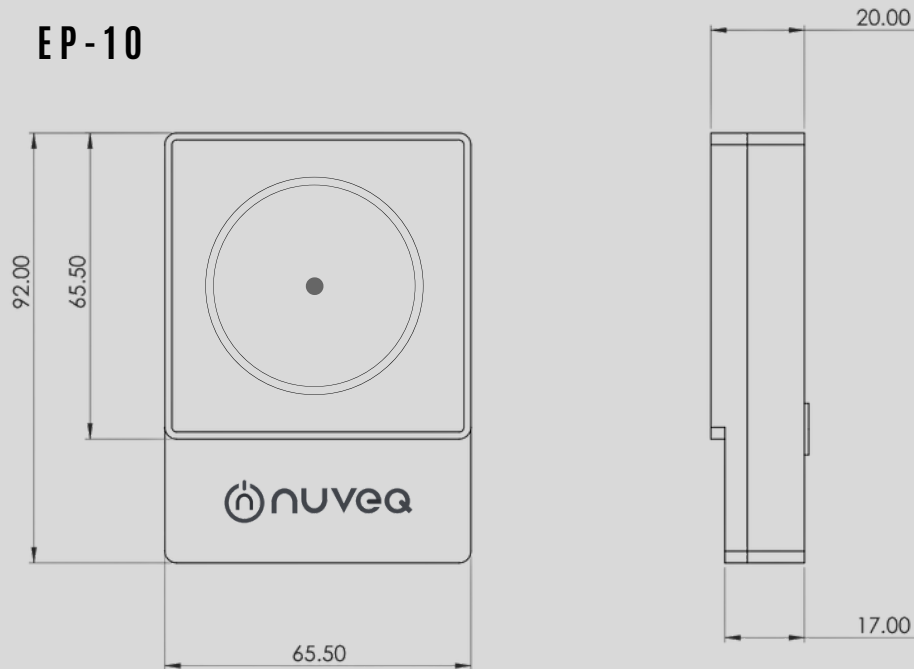
Encrypted NFC



Mifare Card

DIMENSION

EP-10



BACK BOX

