



## 2N Access Unit 2.0

The innovative 2N Access Unit 2.0 is based purely on IP technology. It combines the functions of a traditional controller with the functions of end access device. The unit is available in versions with keypad, RFID card reader, fingerprint reader or Bluetooth. Its characteristic design is striking, also being attractive thanks to simple installation and configuration. Naturally, it can also be connected to 2N IP intercoms, gaining you a comprehensive access control system solution which you can manage easily via 2N® Access Commander.



Commercial buildings  
Government buildings  
Hospitals  
Business centres

Campuses and schools  
Other staff premises  
Residential - Apartment buildings

### Easily installed edge device

A single Ethernet cable (PoE) and a possibility to connect a door strike and REX button directly to the unit make the installation absolutely simple.

### Transition to secure cards

Now you have only one device which ensures a step-by-step transition from obsolete, easy-to-copy 125kHz technology to a smart, more secure 13.56MHz.

### Remote configuration and management

The 2N Access Unit 2.0 can be remotely configured via 2N® Remote Configuration cloud service or administrator can use 2N® Access Commander for bulk management.

# 2N Access Unit 2.0



## 2N® Access Unit 2.0 RFID

- Multi-frequency RFID card reader
- Minimum wiring requirements
- Same design as IP intercoms
- Remote configuration and administration

### Transition to secure cards in an office centre

Majority of companies are still using the old, unsecure proximity technology that can be easily compromised. 2N Access Unit 2.0 has a multi-frequency RFID reader supporting 125kHz as well as 13.56MHz credentials, which allow a transition to modern access control in a very smooth way, minimizing one-off costs.



## 2N® Access Unit 2.0 Bluetooth & RFID

- Convenience of mobile credentials
- Mobile credentials for free
- Multi-frequency RFID card reader
- Different modes of user's authentication

### Access control both for progressive and conservative people

In modern residential building people use their mobile phone typically for home automation application such as heat, lights or air condition control. Now these people can use the mobile phone also for the access control once they want to enter common areas. For the rest, there are still traditional RFID cards.

### Supported modes:

Tap in app mode - open doors by pressing a button in the 2N® Mobile Key smartphone application

Touch mode - leave the phone in your pocket and just touch the access unit itself



## 2N® Access Unit 2.0 Touch Keypad & RFID

- Transition to smart and secured cards
- Smart automatic calibration
- Two-factor authentication
- Silent alarm activation

### Entrance to highly protected areas

Users must prove their identity by swiping the RFID card and using a PIN code to enter a higher security area such as a bank, lab or warehouse in a store. This can be easily done thanks to the 2N Access Unit 2.0 combining a multi-frequency card reader and a keypad in one compact unit supporting the two-factor authentication.

# 2N Access Unit 2.0

## FEATURES & BENEFITS

### PROTECT THE BUILDING AND PEOPLE

Use 2N Access Unit 2.0 to prevent unauthorised access to a building, ensuring the highest level of security for all people inside.

### TIME & ATTENDANCE TERMINAL

The 2N Access Unit 2.0 works as a T&A terminal recording all your employees' arrivals and departures. These information are sent to 2N® Access Commander where can be seen in graphical form.

### PART OF COMPLETE SOLUTION

2N Access Unit 2.0 combined with 2N IP intercoms in one big installation and managed via 2N® Access Commander create complete, purely IP based access control solution for your building.

### DOOR PROTECTED FROM BOTH SIDES

Other additional modules such as an RFID reader, keypad, fingerprint or Bluetooth can be connected to the 2N Access Unit 2.0, allowing you to secure a door easily from both sides.

### ACCESS TIED UP WITH TIME PROFILES

Configure different time profiles and allow the personnel to access premises on your security terms, ie. working hours, weekends.

### SECURITY AS A PRIORITY

With IP based devices the network security is crucial. Therefore 2N Access Unit 2.0 support 802.1X protocol, HTTPs communication and protection against dictionary attacks to protect your IP network.

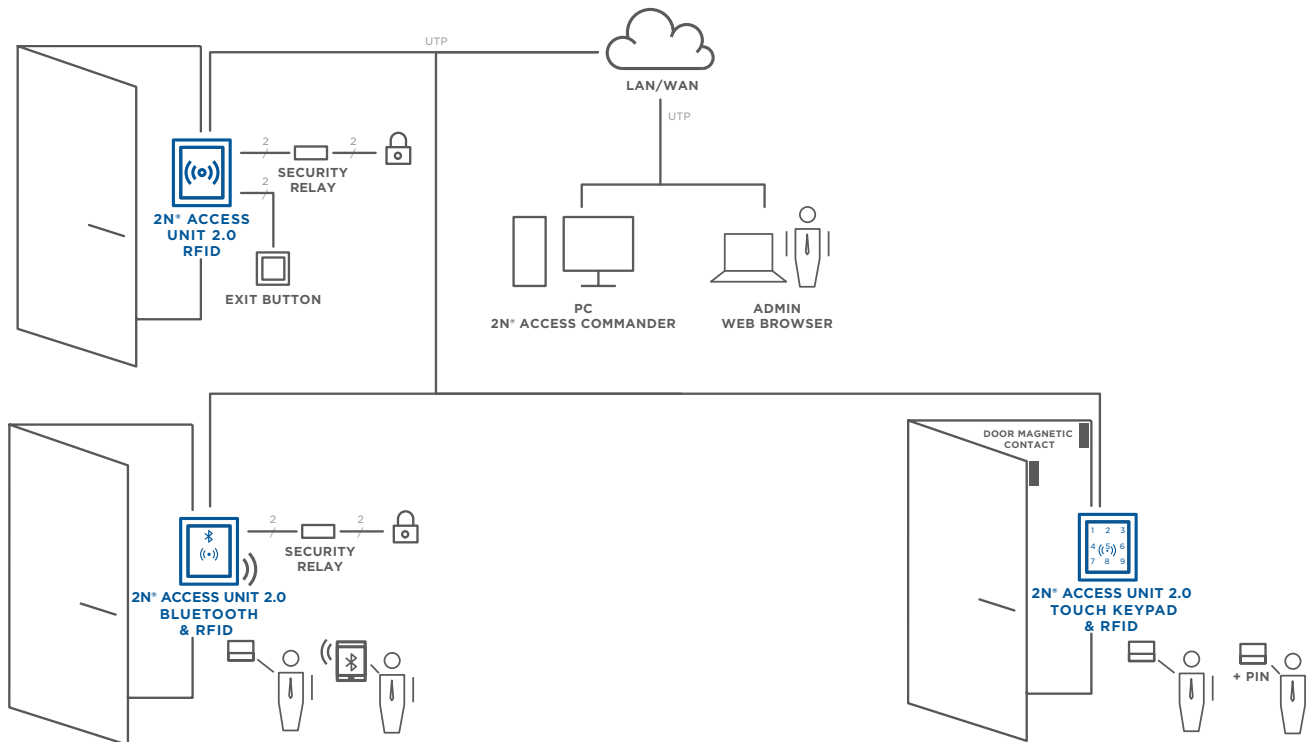
### WEB INTERFACE ADMINISTRATION

Simply connect the access control unit to your LAN and everything can be set up via the intuitive web interface.

### ADVANCED EVENT REPORTING

The 2N Access Unit 2.0 not only allow logs to be sent to the Syslog server, but also e-mail notifications to building security or an HTTPs command to a third-party system for selected events.

## DIAGRAM



# 2N Access Unit 2.0



**2N® ACCESS UNIT 2.0  
RFID**  
ord. 9160334  
9160334-S (secured)



**2N® ACCESS UNIT 2.0  
BLUETOOTH & RFID**  
ord. 9160335  
9160335-S (secured)



**2N® ACCESS UNIT 2.0  
TOUCH KEYPAD & RFID**  
ord. 9160336  
9160336-S (secured)

## TECHNICAL PARAMETERS

### Interfaces

|                      |  |
|----------------------|--|
| Power                | PoE or 12V ±15% / 2A DC                                |
| PoE                  | 802.3af (Class 0 - 12.95W)                             |
| LAN                  | 10/100BASE-TX s Auto-MDIX, RJ-45 modular jack          |
| Recommended cabling  | Cat-5e or better                                       |
| Active switch output | 8 to 12V DC / max 600mA                                |
| Passive switch       | NO/NC contacts, up to 30V 1A AC/DC                     |
| Inputs               | 2 inputs - in passive / active mode (-30V to + 30V DC) |
| Tamper switch        | native part of the 2N Access Unit 2.0                  |
| Audio                | buzzer and microphone                                  |

### Bluetooth reader

|                |   |
|----------------|---|
| Version        | compatible with Bluetooth 4.0 or higher (BLE)             |
| Range          | adjustable (short - 0.5m, medium - 2m, long - up to 10 m) |
| Security       | RSA-1024 and AES-128 encryption                           |
| RX sensitivity | up to -93 dBm   |

### RFID card reader

125kHz (EM4100, EM4102, Prox)  
13.56MHz (ISO14443A, ISO14443B, ISO15693, podpora NFC )

- reads UID
- reads PACs ID (SIO enabled cards from HID)

### Touch Keypad

|                            |   |
|----------------------------|---|
| Technology                 | capacitive touch technology<br>high touch layer sensitivity (0.1pF)   |
| Reliability                | regular automatic calibration (SmartSense)<br>does not detect false touches on wet surface                          |
| Signalling                 | configurable backlight intensity<br>indication using multicoloured LEDs<br>acoustic response for every keypad touch |
| Mobile Application Support | Android 5.0 and higher, iOS 11.0 and higher (i.e. iPhone 5S and newer)  |

### Mechanical properties

|                                   |   |
|-----------------------------------|---|
| Cover                             | Robust zinc cast frame with surface finish (nickel and black color) |
| Operating temperature             | -40°C - +60°C   |
| Storage temperature               | -40°C - +70°C   |
| Operating relative humidity       | 10%-95% (non-condensing)  |
| Dimensions (1-module solution)    |   |
| Wall (surface) mounting frame     | 107 (W) x 130 (H) x 28 (D) mm                                       |
| Flush mounting frame              | 130 (W) x 153 (H) x 5 (D) mm  |
| Flush mounting box (minimum hole) | 108 (W) x 131 (H) x 45 (D) mm                                       |
| Weight                            | max. 0.8kg  |
| Cover rating                      | IP54 and IK08   |

### Expansion modules

2N Access Unit 2.0 supports modules from the 2N® IP Verso intercom: RFID card readers, keypad, fingerprint, Bluetooth, I/O module, Wiegand, etc.

## SOFTWARE

- 2N® Access Commander** - access control and management software for 2N access unit and IP intercoms
- 2N® Remote Configuration** - service for remote management of 2N devices from My2N cloud portal
- 2N® Mobile Key** - application that convert your smartphone to the access card
- 2N® Network Scanner** - application for detecting 2N IP intercoms and access control units on the network