The innovative 2N Access Unit 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 Helios IP intercoms, gaining you a comprehensive access control system solution which you can manage easily via 2N® Access Commander.

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

### Unit with complete intelligence inside
The 2N Access Unit combines a traditional controller with end access equipment and an IP converter, significantly reducing the costs associated with installation, cabling, and maintenance.

### Simple installation
Power over PoE and a single ethernet cable make installation very simple. You can connect a lock, exit button, or open-door sensor directly to the unit.
2N® ACCESS UNIT RFID – 125 kHz or 13.56 MHz with NFC

Standalone access unit with RFID card reader ensuring building access control, with support for various types of RFID cards, chips, and other media using 125kHz or 13.56MHz frequencies. The 13.56MHz reader version also supports NFC technology.

• Combination of controller and RFID reader in one device
• Pure IP access system solution
• Door opening via smartphone (with NFC support)

2N® ACCESS UNIT BLUETOOTH

Thanks to Bluetooth technology you no longer need worry about forgotten RFID cards or PIN abuse. Simply open the door with your smartphone, which only needs to be in your pocket or bag, without having to unlock it. The 2N® Mobile Key application must be installed on the mobile device.

• Configurable communication distance
• Two-factor user identification
• High degree of security

Supported modes:
• TAP in App – door-opening by pressing icon in the installed application
• Touch – door-opening by touching access unit (without the need to unlock phone)

2N® ACCESS UNIT FINGERPRINT READER

The access unit has a top-of-the-range, highly reliable optical sensor with fast fingerprint identification. Thanks to its unique design, it provides user comfort during identification and ensures maximum security in the given space.

• Extremely secure user identification method
• False fingerprint detection
• Designed for indoor and outdoor installation

2N® ACCESS UNIT TOUCH KEYPAD

Separate access unit equipped with touch keypad for inputting an access PIN. The unit is equipped with a capacitive touchscreen which reliably records and evaluates every touch.

• Configurable backlighting intensity
• Acoustic response to touch
• Silent alarm activation
Administration via web interface
The Access Control unit simply plugs into your LAN network and, subsequently, can be easily set-up via a web interface.

Higher security of access
To provide maximum security in a protected area outside business hours, two-factor authentication of users may be required, i.e., a combination of two different access technologies.

Tamper protection
2N Access Unit is equipped with a mechanical protective switch. As soon as anyone attempts to damage the unit mechanically, the switch is activated and an alarm is set off.

Entry and exit monitoring
Other expansion modules can be connected to the 2N Access Unit (for example, RFID reader, keypad, Bluetooth etc.), which can secure a door from both sides with ease.

Invalid access data warning
If an invalid card is used to attempt access or an invalid PIN is entered several times, the 2N Access Unit immediately signals a warning to the administrator.

Indoor and outdoor use
You can install the Access Control unit thanks to its mechanical properties not only inside the building, but also in an outdoor environment.
**2N Access Unit**

### Audio
- **Speaker:** 0.8 W / 8 Ω

### Interfaces
- **Power supply:** 12V ±15% / 2A DC or PoE
- **PoE:** per standard 802.3af (Class 0 - 12.95W)
- **LAN:** 10/100BASE-TX with Auto-MDIX, RJ-45, terminal block or pigtail RJ-45
- **Recommended wiring:** Cat5e or better
- **Passive switch:** NC/NO contacts, max 30 V 1 A AC/DC
- **Active switch output:** 8 to 12 V DC / max 400 mA
- **Inputs:** 3 inputs – can be used in passive or active mode (-30 V to + 30 V DC)

### Expansion modules
- Modules supported are from the 2N® Helios IP Verso intercom: RFID reader card (125kHz; 13.56 MHz), touch screen, keyboard, I/O module, Wiegand, etc.

### Mobile Application Support
- Android 4.4 and higher, iOS 10.3 and higher

### Mechanical properties
- **Cover:** Rugged zinc die-cast with surface finish
- **Operating temperature:** -40°C - 60°C fingerprint reader and touch keypad -20 °C - 55 °C
- **Operating relative humidity:** 10%-95% (non-condensing)
- **Storage temperature:** -40°C - 60°C fingerprint reader and touch keypad -20 °C - 60 °C
- **Coverage level:** IP54

### Dimensions
- **Frame for surface mounting:**
  - 1 module: 107 (w) x 130 (h) x 28 (d) mm
- **Frame for in-wall mounting:**
  - 1 module: 130 (w) x 153 (h) x 5 (d) mm
- **Case for in-wall mounting (minimum size of hole in wall):**
  - 1 module: 108 (w) x 131 (h) x 45 (d) mm
- **Weight:** Max gross weight: 2 kg / max net weight: 0.5 kg (depending on configuration)

### 2N Access Commander
- access control and management software for 2N access unit and IP intercoms

### 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

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**2N® ACCESS UNIT RFID**
- ord. 916009 (125kHz)
- ord. 916010 (13.56MHz)

**2N® ACCESS UNIT BLUETOOTH**
- ord. 916013

**2N® ACCESS UNIT FINGERPRINT READER**
- ord. 916019

**2N® ACCESS UNIT KEYPAD**
- ord. 916016

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**2N® ACCESS UNIT RFID - 125 KHZ or 13.56 MHZ with NFC**
- Supported 13.56 MHz cards (only the serial number of the card is read)
  - ISO14443A
  - Mifare Classic 1k & 4k, DESFire EV1, Mini, Plus S&X, SmartMX, Ultralight, Ultralight C, SLE44R35, my-d move (SLE66Rxx), PayPass, Logic Advant

  - ISO14443B
  - Calypso, CEPAS, Moneo, SRI512, SRT512, SRI4K, SRX4K, PicoPass, HID iCLASS

- Supported NFC devices
  - Smart-phones with NFC and support for HCE (Host Card Emulation), Android version 4.3 and above

- Supported 125 kHz cards
  - EM4100, EM4102, HID Prox

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**2N® ACCESS UNIT BLUETOOTH**
- Compatible with 4.0 Bluetooth and higher (Bluetooth Smart)
- Reception sensitivity: up to -93 dBm
- Range: more than 10 m (configurable)
- Consumption: 20mA at 12V DC

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**2N® ACCESS UNIT FINGERPRINT READER**
- Sensor: Optical sensor protected by resistant glass
- Reliability: Algorithm for fake fingerprint detection
- Resistance: Resistant to water and dust
- Ambient light suppression: Also works in direct sunlight
- Status signalisation: Acoustic and with the aid of multicoloured LEDs
- Sensing area: Large with dimensions of 15.24 x 20.32 mm
- Operating temperature: -20°C to 55°C
- Certification: FBI PIV

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**2N® ACCESS UNIT FINGERPRINT READER**
- Capacitive technology
- High touch layer sensitivity (0.1pF)
- Regular automatic calibration (SmartSense)
- Does not detect false touches on wet surface
- Configurable backlighting intensity
- Indication using multicoloured LEDs
- Acoustic response for every keypad touch

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**SOFTWARE**

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