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 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

**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 to 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.

2N® Remote Configuration
Save time and money for onsite support thanks to our free service. Access all your devices remotely via secured cloud connection. Fastest response to your customers requests.
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® IP Verso intercom: RFID reader (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, -20 °C – 55 °C touch keypad
Operating relative humidity 10%-95% (non-condensing)
Storage temperature -40°C – 60°C fingerprint reader, -20 °C – 60 °C touch keypad
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)

Supported 125 kHz cards
EM4100, EM4102, HID Prox

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

2N® Access Commander software – 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

SOFTWARE

ord. 916009 (125kHz)
ord. 916010 (13.56MHz)
ord. 916013
ord. 916019
ord. 916016

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, SRIX4K, PicoPass, HID iCLASS

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

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

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

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