

Product Catalogue

for project planners, designers & engineers

Discover a complete access experience

2N.com



Unlock the Future

Build a modern access control solution that exceeds all your expectations. 2N set industry standards and never compromise on (cyber)security.

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1

Main door communication and access

2N IP Verso 2.0

Precisely match the needs of your project every time. Combine up to 20 different modules. Provide residents with full HD video calling and secure entry with access readers that support multiple access credentials



2

Garages and car park

2N IP Force

One of the world's strongest intercoms can easily withstand accidental impact from car mirrors. To restrict vehicle access automatically, pair it with an Axis camera for license plate recognition



3

Answering calls in homes

2N Indoor View

Sleek answering unit with 7" touch screen that enhances any interior. Offer a smart living experience with easy integration to home automation and other advanced features

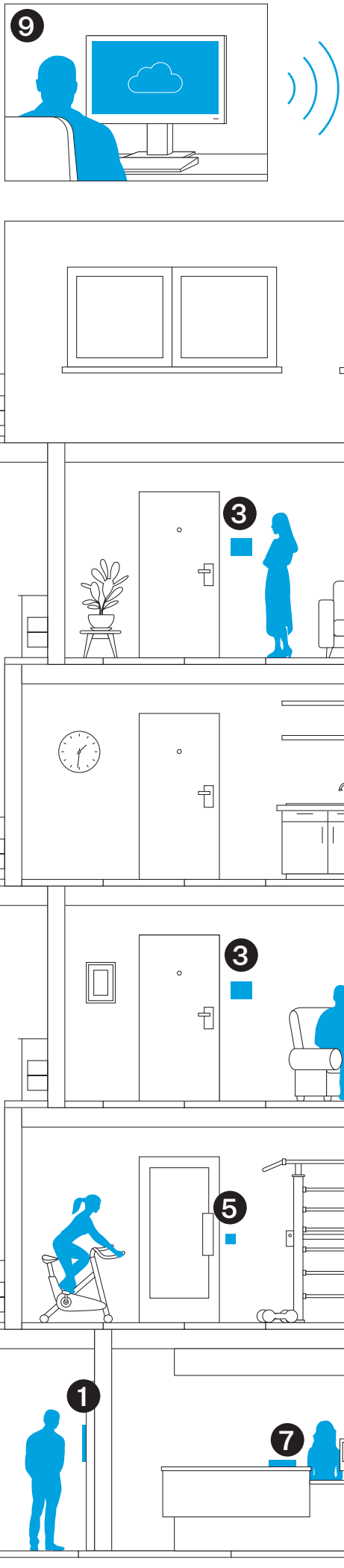


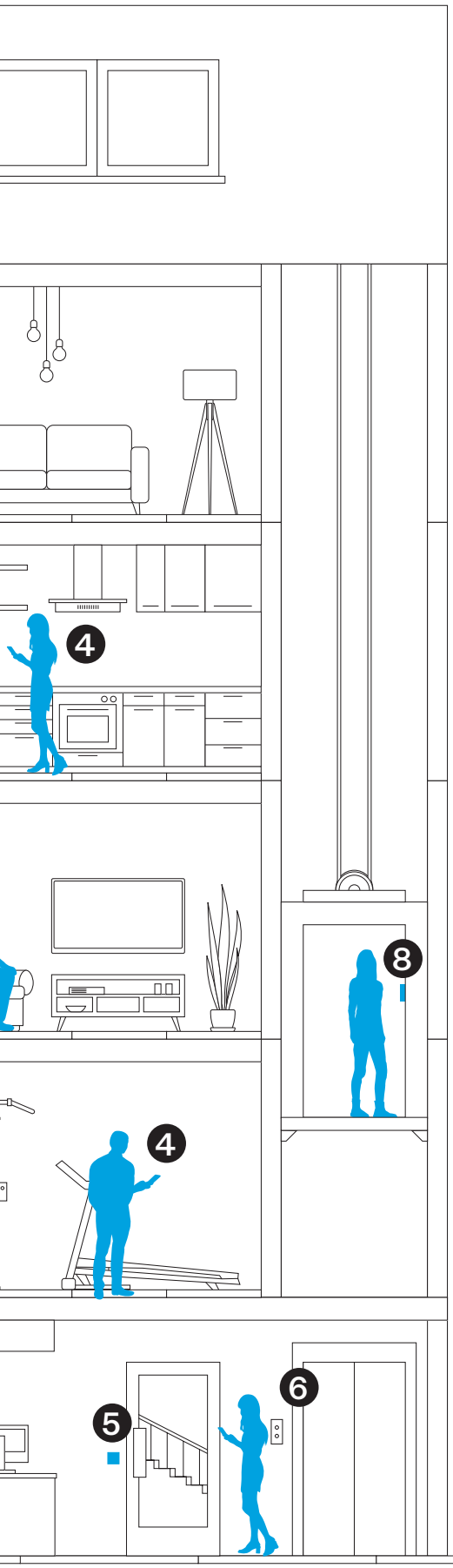
4

Answering calls remotely

My2N App

Allow residents to answer their door from anywhere! The My2N app offers video calling from intercoms to mobile phones – increasing both convenience and home security





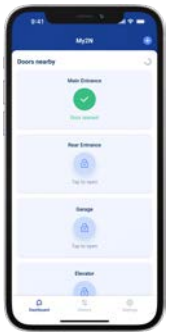


5

Secure common areas

2N Access Unit 2.0

Want cohesive design, modern technology, and versatile installation? Secure common areas with this smart access reader with a built-in controller



6

Mobile access

My2N App

Combine free mobile credentials with our revolutionary keyless access. WaveKey technology ensures access is secure, fast and reliable.



7

Concierge desk

2N IP Phone D7A

No modern project is complete without an IP phone that offers two-way video communication. Add the personal touch to concierge desks as well as advanced features & heightened security

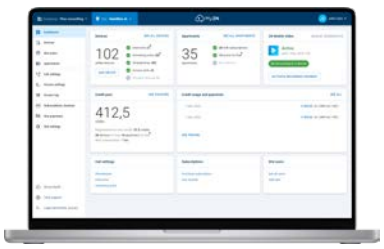


8

Access control for elevators

2N Access Unit 2.0

Don’t neglect elevator access! Floor-restricted access is an important part of a complete residential access system that wants to prioritize resident security



9

Remote site management

My2N Management Platform

Handle 4 out of 5 customer requests remotely. Add users, manage access, set up intercom calling, update firmware and troubleshoot: all for free!

Build a complex solution with open integration

Our products are build on open protocols providing a seamless integration with vast majority of 3rd party devices and systems.

Supported protocols are SIP2.0, SIPS, DHCP opt. 66, SMTP, SNMP, TR069, 802.1x, RTSP, RTP, SRTP, TFTP, HTTP, HTTPS, API, Syslog, ONVIF profile S and T, OSDP, Wiegand

Integrate with 200+ brands

Supporting wide range of open protocols means that you can connect our devices with systems and products from various segments

Video Surveillance

AXIS COMMUNICATIONS · Genetec · milestone · exacq Technologies · immix · AVIGILON

Physical Security

AMAG TECHNOLOGY · LENEL·S2 · Johnson Controls · prysm · Cadvancis

Access Control

brivo · inner range · STid · HID · SIEMENS · Genetec

IP Telephones

cisco · AVAYA · Microsoft Teams · zoom · 3CX · Wildix

Home Automation

Control4 · CRESTRON · SAVANT · Schneider Electric · basalte · FIBARO

Elevator systems

KONE · Schindler

You can find more brands on our Integration HUB



More about
the program

2N Certified Installer Program

Become a member and prove to your customers that you're an expert in installing 2N products. Plus, enjoy a host of sales, marketing, and technical benefits.

Powering positive change

Sustainability is important at 2N.
We've built our ESG strategy on four key principles:



Product

Quality + Longevity = Sustainability

- Durable, automotive-grade components and precise EU manufacturing leads to quality, long-lasting products that don't need frequent replacing
- Our devices are energy-efficient: they consume up to 60% less energy than comparable solutions
- We use responsible packaging and ship via the DHL GoGreen+ program only



Planet

Minimize our impact on the planet

- Our Prague office uses solar power, and our second office is in a BREEM-certified building
- Circular and eco-conscious production practices and standards are in full swing
- We actively support local education and community initiatives



Partners

Hold our partners to the same high standards as ourselves

- We hold our partners to high standards of ethics and transparency.
- Safe infrastructure and controlled components (NDAA) are essential.
- Operations and processes are led by ISO 27001.



People

Value and protect our employees, as well as those who use our products

- Our talented, engaged employees thrive in an inclusive company culture
- Our people stay at 2N for an average of 7 years
- Long-term partnerships and diversity (with employees from 10+ nationalities) define our approach

Simplifying your cybersecurity journey



More then ever, cybersecurity should be everyone's priority today. It certainly is here at 2N – it's integrated into every step of our design and development. By choosing 2N, you partner with a company that emphasizes security throughout the product lifecycle, ensuring robust protection for your data and assets.

Protection throughout the product lifecycle

Cybersecurity is an ongoing journey, and every product deserves to be protected throughout its lifecycle. That's why at 2N we continually invest in research and development to stay ahead of evolving threats and provide you with the most secure products possible.

Built-in security

Our R&D engineers are guided by the Axis Security Development Model (ASDM). We incorporate security best practices at every development stage, from initial concept, through extensive testing to final production.

Vulnerability management

At 2N, we believe that transparency and proactive collaboration with our customers are is key to building trust and providing robust security solutions.

Compliance

2N meets numerous regulatory requirements, however our commitment extends beyond cybersecurity and privacy standards to include a robust anti-corruption policy, stringent supply chain quality controls, and globally standardized processes.

Download a comprehensive 2N Hardening Guide that includes our best practices to help you configure 2N products securely, minimizing vulnerabilities and potential risks while maximizing protection.

An inclusive solution is a must-have

Remember all users when designing a project - including those with disabilities.
Our products can support additional needs and help you improve accessibility

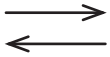


Support of Induction Loops

Induction loops transmit audio signals directly to hearing aids and cochlear implants. To cater to the needs of the hearing-impaired at entrances or garages, choose the 2N IP Verso 2.0 with induction loop module or the 2N IP Force with inbuilt induction loop accessory. For inside apartments, use the 2N Clip with an inbuilt induction loop.

Bi-directional video

This is great feature for the hearing impaired as they can communicate with receptionists using sign language. To use this function, the reception must be equipped with 2N IP Phone D7A with a USB camera. The 2N IP Style is also needed at the front entrance.



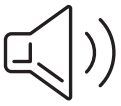


Intercom call pictograms

Show the intercom call status (ringing, in call, door open) to hearing-impaired users. This comes as standard in the 2N IP Style, 2N IP Verso 2.0 and 2N IP Solo intercoms. The 2N IP Force is also equipped with pictograms in certain versions.

Audio prompting/navigation

Visually impaired users will benefit from audio navigation that can be played by 2N intercoms after granting access. This can also help users navigate buildings by providing instructions on how to find their way to the reception, the elevator, and so on.





Marked number 5 on mechanical keypads

Help the visually impaired with keyboard navigation. The number 5 on the mechanical keypads of the 2N IP Verso 2.0 and 2N IP Force are marked with a little dot.

Face Zooming

People with limited vision (for example the elderly) will benefit from the Face Zooming function. The camera in the intercom detects the face in the frame and automatically zooms in so that the user can clearly identify their visitor.



Need something extra?

We’re here to help you at every stage of your project!

Design a project online

Throw away the price lists and forget about ordering numbers: the 2N Project Designer will expertly guide you through the perfect products and accessories for your project

Support for designers

We’ve prepared everything designers and architects need to bring a successful project to life. Download CAD drawings, BIM objects and specifications for designers from our website.

5 year warranty

Our products are built to last therefore we provide 5 year warranty as standard across all 2N hardware devices.

ISO Certificates

We hold a number of internationally recognised certificates ISO 27001, ISO 9001, ISO 14001, ISO 45001.



2N AppeAR

Show your customers how great 2N products look installed by using our AR mobile app. Virtual installations, an interactive catalogue and more - all in your pocket

Download on the App Store

GET IT ON Google Play



The future is WaveKey

Mobile phones can fully replace RFID cards or fingerprints. The technology behind our mobile access, WaveKey, is reliable, flexible, and secure. Plus, free credentials!

4 Modes of Use

Touch Mode

Touch mode balances security with comfort: for entry, users simply touch the intercom or reader whilst their phone is somewhere on their person. Hands full? An elbow will do!

Motion Mode

Motion mode ensures completely contactless door opening for ultimate convinience. Users simply approach the intercom or reader with their phone in their pocket, and the door will open.

Tap in App Mode

Tap in App mode offers the highest security. To enter, the user unlocks their mobile phone, opens the app, and presses the button. A great option for parking lots or garages as the user can operate it without leaving the car.

Card Mode

In Card Mode, the phone works as a 'card'. The user presents the phone close to the reader or intercom, and entry is granted. It's similar to the popular NFC technology, however, WaveKey works for both Android and iOS.

Supported products



2N IP Style



2N IP Verso 2.0
2N IP Verso
2N LTE Verso



2N Access Unit 2.0
Bluetooth & RFID

2N Access Unit 2.0
Bluetooth, touch keypad & RFID



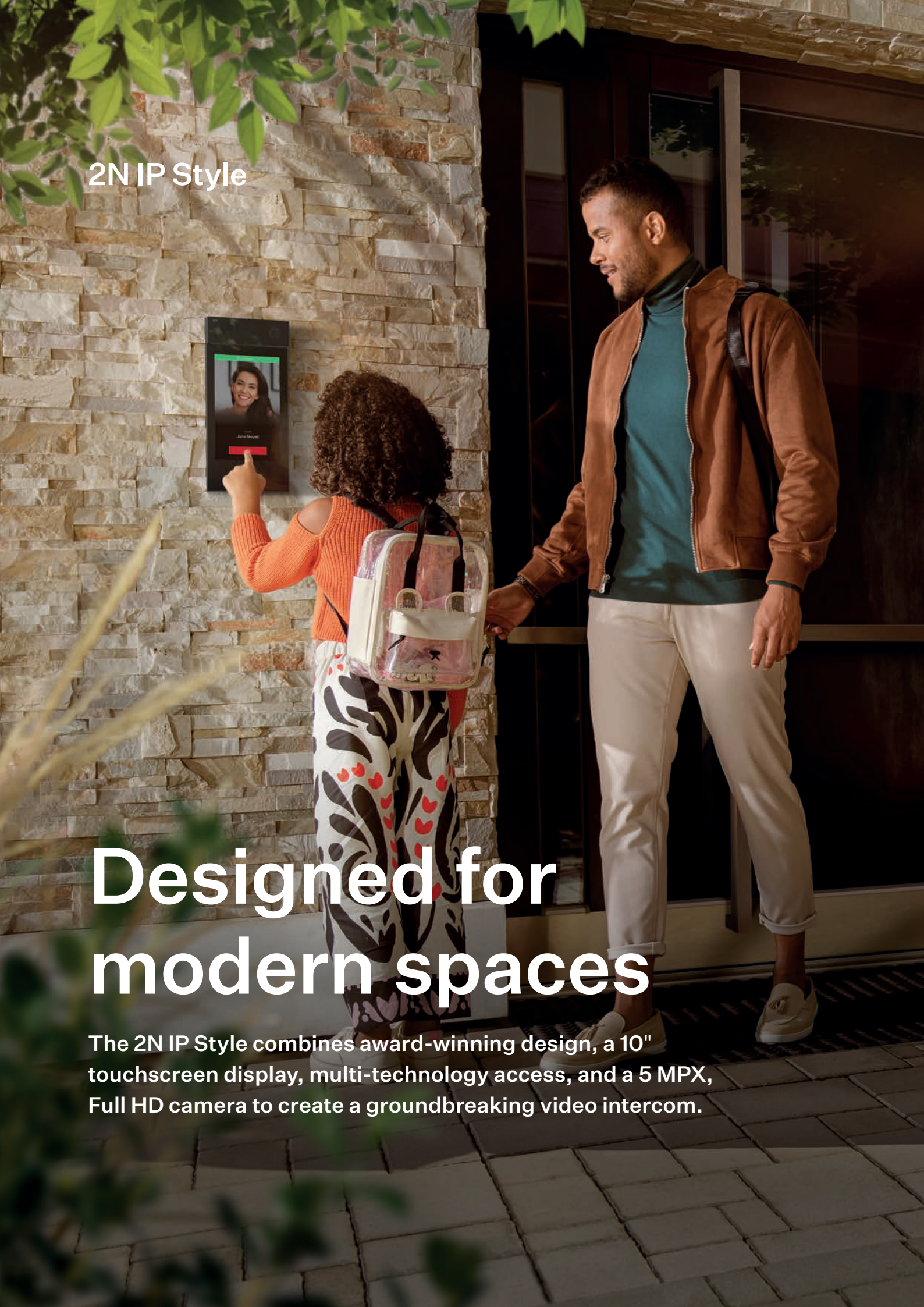
2N Access Unit M
Bluetooth & RFID

Comparison table

Choose the right IP or LTE intercom for your specific need

Overview of Intercoms

Intercom	2N IP Style	2N IP Verso 2.0	2N IP Verso	2N LTE Verso	2N IP Solo	2N IP Force	2N IP Safety	2N IP One	2N IP Base	2N IP Uni
Integrated camera available	✓	✓	✓	✓	✓	✓	-	✓	✓	-
Camera resolution (video, in-call)	2560x1920 px (QHD)	1920 x 1080 px (Full HD)	640 x 480 px (VGA)	640 x 480 px (VGA)	640 x 480 px (VGA)	640 x 480 px (VGA)	-	1920 x 1440 px	640 x 480 px (VGA)	-
Camera resolution (JPEG)	2560x1920 px (QHD)	1920 x 1080 px (Full HD)	1280 x 960 px (HD)	1280 x 960 px (HD)	1280 x 960 px (HD)	1280 x 960 px (HD)	-	1920 x 1440 px (4:3)	1280 x 960 px (HD)	-
Max. viewing angle	144° (H), 126° (V)	138° (H), 105° (V)	128°(H), 95°(V)	128°(H), 95°(V)	128°(H), 95°(V)	135° (H), 109° (V)	-	156°(H), 116°(V)	135° (H), 109° (V)	-
WDR support	✓	✓	-	-	-	-	-	✓	-	-
IR illumination	✓	✓	✓	✓	✓	✓	-	✓	-	-
Integrated electric switch	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Numerical keypad available	✓	✓	✓	✓	-	✓	-	-	-	-
Internal RFID card reader available	✓	✓	✓	✓	-	✓	-	-	✓	-
Biometrics available	-	✓	✓	✓	-	-	-	-	-	-
Bluetooth available	✓	✓	✓	✓	-	-	-	-	-	-
QR code access	✓	✓	-	-	-	-	-	✓	-	-
Buttons	-	up to 146	up to 146	up to 146	1	1, 2 or 4	1 or 2	1	1 or 2	1 or 2
Audio line-in/ line-out	line-out	line-out	line-out	line-out	line-out	line-out	line-out	-	-	line-out
Display	✓	optional	optional	optional	-	-	-	-	-	-
Tamper alarm output	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Tamper alarm event in automation API	✓	✓	✓	✓	✓	✓	✓	✓	-	-
Suitable for outdoor use	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
IP/IK coverage	IP65, IK08	IP54/IK8 (touch display IK7)	IP54/IK8 (touch display IK7)	IP54/IK8 (touch display IK7)	IP54/IK8	IP69K/IK10	IP69K/IK10	IP66, IK08	IP65/IK7	IP54/IK10
Number of users	10000	10000	10000	10000	10000	10000	10000	10000	10000	2
Security Relay support	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Dimensions WxHxD (including frame)	170x355x40 mm	107x234x28 mm (2 modules)	107x234x28 mm (2 modules)	107x234x28 mm (2 modules)	107x130x28 mm	109x217x83 mm	109x217x83 mm	78x172x53 mm	109×229x31 mm	115x193x57 mm
Power supply POE 802.3af	802.3at (POE+)	✓	✓	-	✓	✓	✓	✓	✓	✓
Power supply 12V DC	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
LTE connectivity	-	-	-	✓	-	-	-	-	-	-

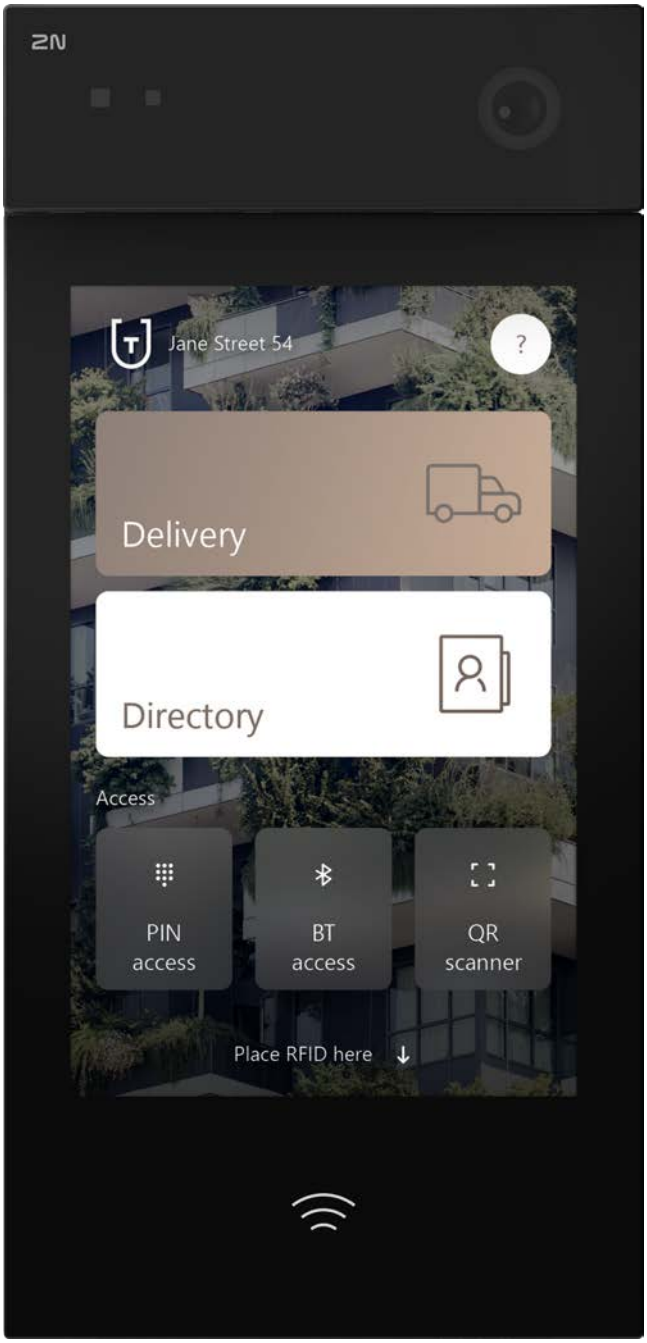


2N IP Style

Designed for modern spaces

The 2N IP Style combines award-winning design, a 10" touchscreen display, multi-technology access, and a 5 MPX, Full HD camera to create a groundbreaking video intercom.

2N IP Style


2N
Jane Street 54
?
Delivery
Directory
Access
PIN access
BT access
QR scanner
Place RFID here

Key features

- Red Dot award-winning design
- Groundbreaking camera
- 4 access technologies
- Innovative mounting mechanism for convenient installation

Recommended uses

To give a premium edge to residential projects

The 2N IP Style is the cherry on top of high-end projects. Demanding customers? The Full HD, highly responsive touchscreen can be customized to meet their needs and used to display anything from important notifications to image slideshows and video animations.

As a smart, reliable device for modern office buildings

QR code access, mobile access, support of bi-directional video calling, easy integration with MS Teams, Zoom Phone, and more - the 2N IP Style offers true innovation paired with unrivalled reliability. Years of testing have proved that the intercom can withstand the rigorous use commercial environments demand.

As part of an advanced security solution

The powerful camera of the 2N IP Style isn't just for show. The wide-range camera angle, crystal clear images (no matter the light), and features such as Adaptive Face Zooming can be a valuable part of enhancing building security. The intercom can also be integrated into most leading VMS.



Technical parameters

2N IP Style

Signalling protocol

SIP (UDP, TCP, TLS)

Audio

Microphone	2 built-in microphones
Speaker	2x4 W/4 Ω
Sound pressure at 1kHz at 1m distance (SPL max)	85 dB
Volume control	adjustable with automatic adaptive mode
Full duplex	yes (AEC)
Codecs	G.711, G.729, G.722, L16/16kHz

Camera

Resolution – JPEG	max 2560x1920 (4:3); max QHD (16:9)
Resolution – video call	max 2560x1920 (4:3); max QHD (16:9)
Frame rate	max 30 fps
Sensor sensitivity	14000 e^-/lux-sec
Viewing angle	138 ° (H), 114 ° (V)
Infrared light	yes
Forensic WDR	yes
Codecs	H.264, H.265, MJPEG, Axis Zipstream

Touchscreen

Size	10.1"
Resolution	1280x800 TFT IPS
Viewing angle	170°
Numeric keypad	touch (on-screen)
Directory	2 modes: office/residential (10,000 users)

Bluetooth reader

Bluetooth	Bluetooth 5.0 LE compliant
Security	RSA-1024 and AES-128 encryption
RX sensitivity	up to +19 dBm TX power
Range	(short - typically up to 3m*, long - typically up to 10m*) *distances should serve only as an approximate guide and may vary depending on the phone model and installation environment
Modes	touch, tap in app, card, motion
Mobile app. support	2N Mobile Key (Android 6 and higher, iOS 12 and higher)
WaveKey support	yes

RFID card reader

Supported frequencies	125 kHz variant 13.56 MHz variant
Supported card types	card type compatibility depends on Order No.
125 kHz	EM4xxx
	HID Prox – versions with 125 kHz support and S in Order No. Only
13.56 MHz	ISO14443A, PicoPass (HID iClass), FeliCa, ST SR(IX), NFC (2N Mobile Key)
	reads UID (CSN) and secured MIFARE DESFire EV2/EV3 cards using 2N PICard technology
Secured 13.56 MHz	ISO14443A (MIFARE DESFire), PicoPass (HID iClass), FeliCa, ST SR(IX), NFC (2N Mobile Key), HID SE (Seos, iClass, MIFARE SE)
	reads secured MIFARE DESFire EV2/ EV3 cards using 2N PICard technology
	reads PACs ID (HID iClass cards with SIO object)

Power Supply

DC power supply	12 V ± 15 %/4 A
PoE	PoE+ IEEE 802.3at (Class 4–25.5 W)

Interfaces

LAN	10/100BASE-TX with Auto-MDIX, RJ-45
Switch output	NC/NO contacts, max 30V/1A AC/DC
Active switch output	12 V/0.6 A DC
Passive / active Input	3; (-30 V to +30 V)
Tamper switch	mechanical, part of the intercom
OSDP/Wiegand	optional (as an additional module)
Supported protocols	SIP2.0, SIPS, DHCP opt. 66, SMTP, SNMP, TR069, 802.1x, RTSP, RTP, SRTP, TFTP, HTTP, HTTPS, Syslog, ONVIF

Extension modules (optional)

I/O module	external 43 (W) x 31.5 (H) x 1.5 (D) mm
Wiegand module	external 43 (W) x 31.5 (H) x 1.5 (D) mm

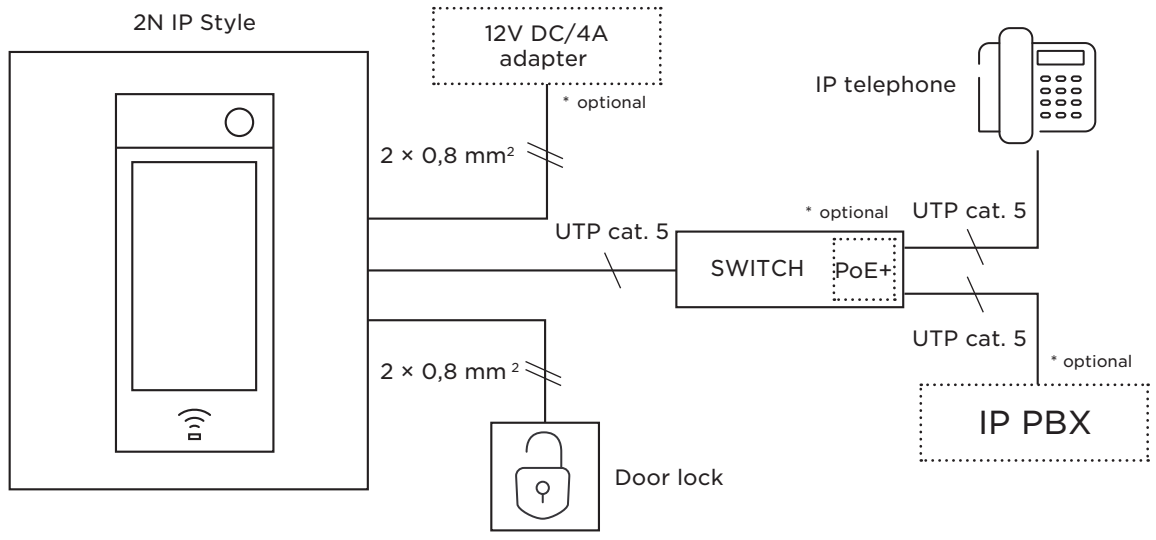
Mechanical properties

Cover	hardened white glass
Operating temperature	-30°C - 60 °C
Storage temperature	-30°C - 70 °C
Operating relative humidity	10% - 95% (non-condensing)
Weight	1950 g
Officially certified outdoor coverage level	IP65, IK08

Dimensions

Surface mounting	170 (W) x 355 (H) x 40 (D) mm
Flush mounting	170 (W) x 355 (H) x 22 (D) mm

Connection diagram



Order numbers



Order No.	9157101
Name	2N IP Style
Desc.	main unit with 125 kHz 13.56 MHz RFID reader, Bluetooth, QR codes and virtual keypad



Order No.	9157101-S
Name	2N IP Style
Desc.	main unit with 125 kHz and secured 13.56 MHz RFID reader, Bluetooth, QR codes and virtual keypad



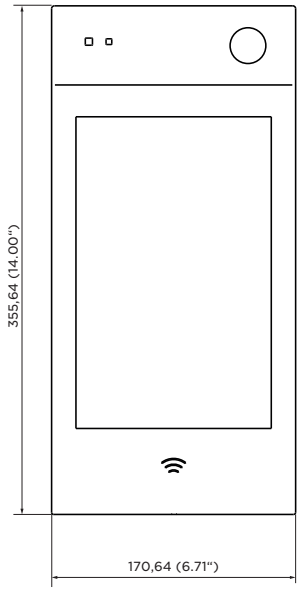
Order No.	9157002
Name	Surface-mount box
Desc.	backplate for surface installation

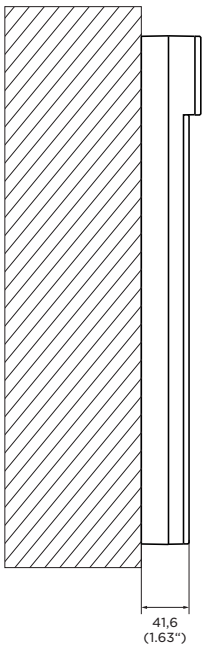


Order No.	9157001
Name	Flush-mount box
Desc.	box for installation in the wall

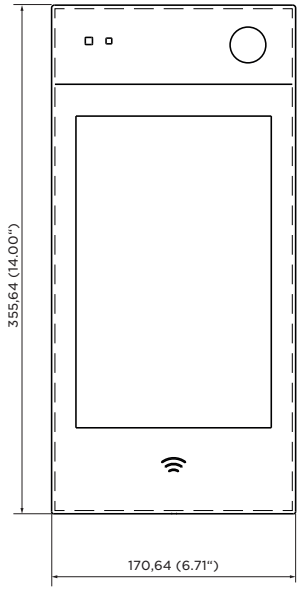
Installation options

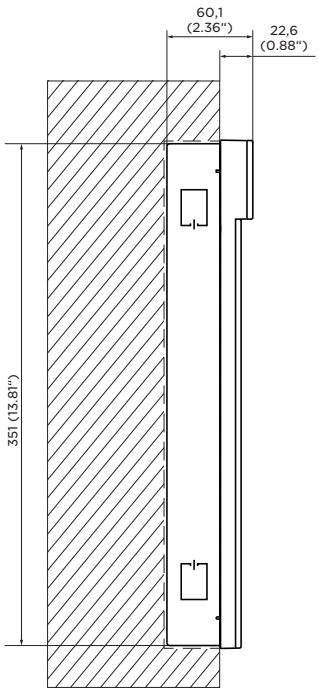
Wall-mounted

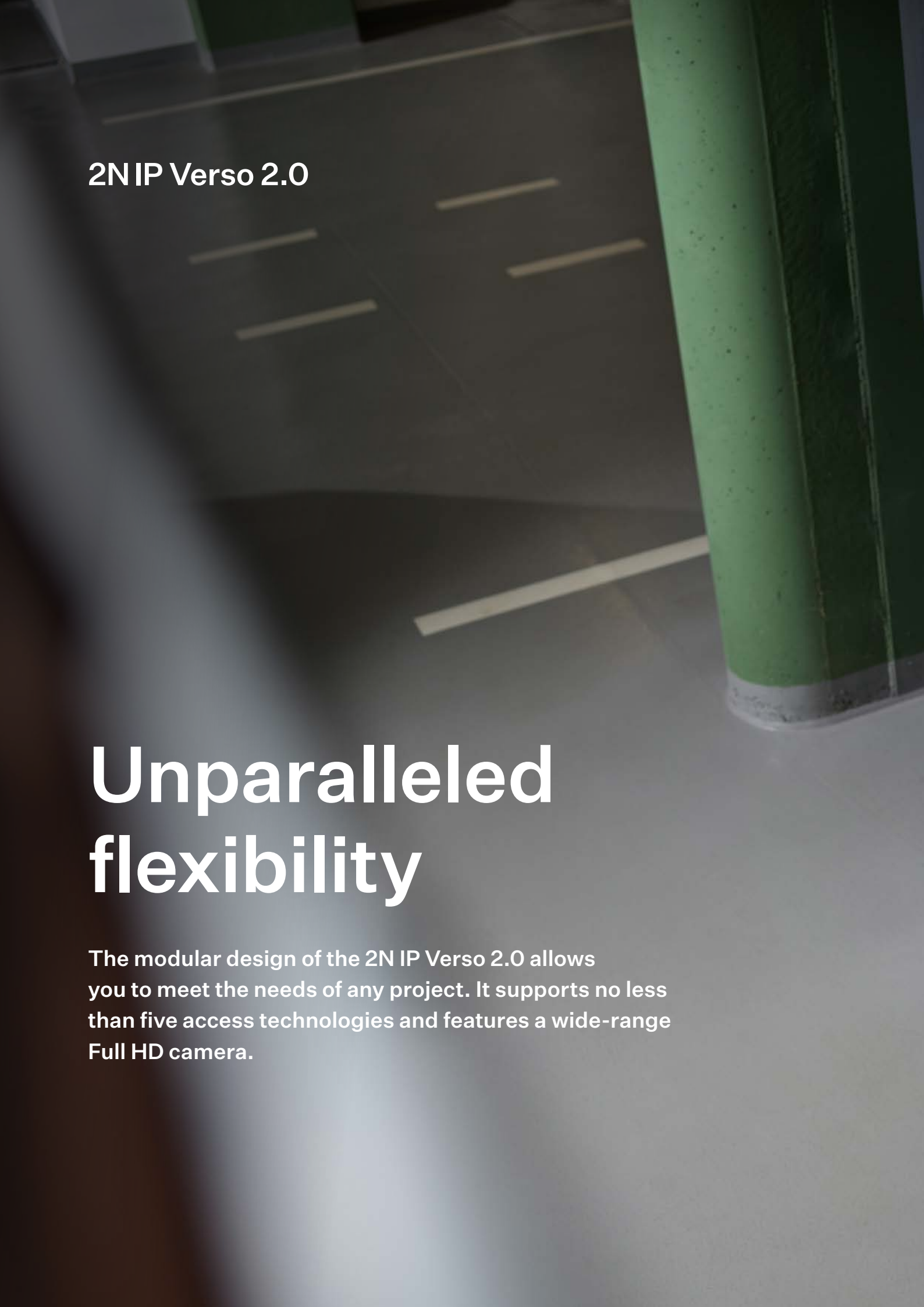




Flush-mounted with box







2N IP Verso 2.0

Unparalleled flexibility

The modular design of the 2N IP Verso 2.0 allows you to meet the needs of any project. It supports no less than five access technologies and features a wide-range Full HD camera.



2N IP Verso 2.0



Key features

- Fully modular IP intercom
- Discrete Full HD camera
- 5-in-1 access, including RFID, mobile, and QR codes
- Easy integration with security systems

Recommended uses

To add versatility and convenience to residential complexes

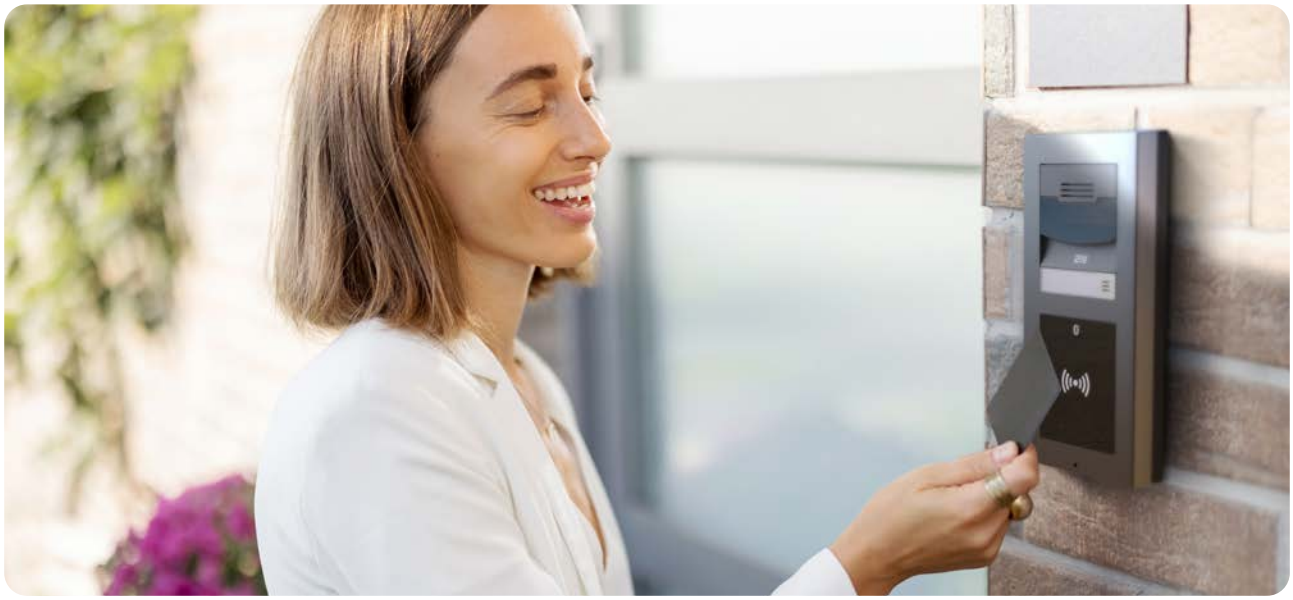
Pair flexible access for residents with a convenient guest experience - in one device! Visitors to large apartment complexes can find exactly who they need using the phonebook module, and a second module will offer residents fast mobile access with RFID as a backup for those who prefer the classics.

To create a highly secure office building

The 2N IP Verso 2.0 with a Touch Keypad & RFID module is a great addition to your security system. The receptionist can quickly and easily provide visitors with a QR code for seamless entry, whilst employees can use RFID or PIN code. The Full HD camera can also stream to a VMS system for comprehensive entrance monitoring. Full integration with 3rd party systems such as Milestone or Genetec goes without saying!

To work as part of a smart home

If you have a single villa project with a home automation system installed, the luxury 2N IP Verso 2.0 with a fingerprint reader is a great intercom option. Secure the home entrance reliably and get seamless integration with the smart home's system. Plus, the IP intercom supports video calls to mobile phones, allowing residents to answer their door from anywhere..



Technical parameters

2N IP Verso 2.0

Power supply

Type	PoE and/or 12 V/1 A DC
PoE	802.3af (Class 0–12.95 W)

Interfaces

LAN	10/100BASE-TX with Auto-MDIX, RJ-45 jack
Recommended cabling	Cat-5e or better
Active switch output	8 to 12 V DC/max 400 mA
Passive switch	NO/NC contacts, up to 30 V/1 A AC/DC
Inputs	1 input - in passive/active mode (-30 V to +30 V DC)
	OFF = open or Uin> 1.5 V
	ON = short-circuit or Uin< 1.5 V
Signalling protocol	SIP (UDP, TCP, TLS)

Audio

Microphone	1 integrated microphone
Amplifier	5 W (Class D) amplifier
Speaker	2 W / 8 Ω
Sound Pressure Level (SPL max)	78 dB (for 1 kHz at 1 m)
LINE OUT	1 VRMS / 600 Ω
Volume control	adjustable with automatic adaptive mode
Full duplex	Yes (AEC)
Audio output	1,9 W
Protocols	RTP/SRTP
Codecs	G.711, G.729, G.722, L16/16kHz

Camera & video

Sensor	1/2.7" colour CMOS
Focal lenght	1.9 mm
View angle	125° (H), 105° (V)
View angle „peephole“	138° (H), 105° (V)
Infrared light	yes
WDR	yes
Minimal illumination	0,8 lux without IR illumination
Protocols	RTP/RTSP/RTCP/HTTP, ONVIF profile S and T
Codecs	H.264, MJPEG, Zipstream
Resolution H.264, MJPEG	max. FullHD (1920 x 1080)
Frame rate	max. 30 fps

Bluetooth Reader

Version	compatible with Bluetooth 5.0 (BLE)
Range	(short - typically up to 3m*, long - typically up to 10m*)
	*distances should serve only as an approximate guide and may vary depending on the phone model and installation environment
Security	RSA-1024 and AES-128 encryption
RX sensitivity	up to -93 dBm
Mode	touch, tap in app, card, motion

Mobile Application Support

Android 6.0 and higher, iOS 12.0 and higher

RFID Card Reader

Supported frequencies	125 kHz variant
	13.56 MHz variant
	125 kHz and 13.56 MHz variant
Supported card types	card type compatibility depends on Order No.
125 kHz	EM4xxx
	HID Prox – versions with 125 kHz support and S in Order No. only
13.56 MHz	ISO14443A, PicoPass (HID iClass), FeliCa, ST SR(IX), NFC (2N Mobile Key)
	reads UID (CSN) and secured MIFARE DESFire EV2/EV3 cards using 2N PICard technology
Secured 13.56 MHz	ISO14443A (MIFARE DESFire), PicoPass (HID iClass), FeliCa, ST SR(IX), NFC (2N Mobile Key), HID SE (Seos, iClass, MIFARE SE)
	reads secured MIFARE DESFire EV2/ EV3 cards using 2N PICard technology
	reads PACs ID (HID iClass SEOS cards)

Touch Keypad

Technology	capacitive touch layer (sensitivity 0,1 pF)
Reliability	regular automatic calibration (SmartSence Auto-tunning)
	does not detect false touches on wet surface
Signalling	configurable backlight intensity
	indication using multicoloured LEDs
	acoustic response for every keypad touch

Fingerprint Reader

Sensor	optical sensor protected by resistant glass
Reliability	algorithm for fake fingerprint detection
Resistance	resistant to water and dust
Signalling	acoustic and multicoloured LEDs
Sensing area	large with dimensions of 15.24 x 20.32 mm
Certification	certified according to FBI standard

Mechanical Properties

Frame (cover)	robust zinc cast frame with surface finish (nickel and black color)
Operating temperature	-40°C to +60°C (Fingerprint Reader module -20°C to +55°C)
Storage temperature	-40°C to +70°C
Operating relative humidity	10%-95% (non-condensing)
Weight	2 kg
Cover rating	IP54 and IK08

Surface mounting frame – dimensions

1 module	107 (W) x 130 (H) x 28 (D) mm
2 modules	107 (W) x 234 (H) x 28 (D) mm
3 modules	107 (W) x 339 (H) x 28 (D) mm

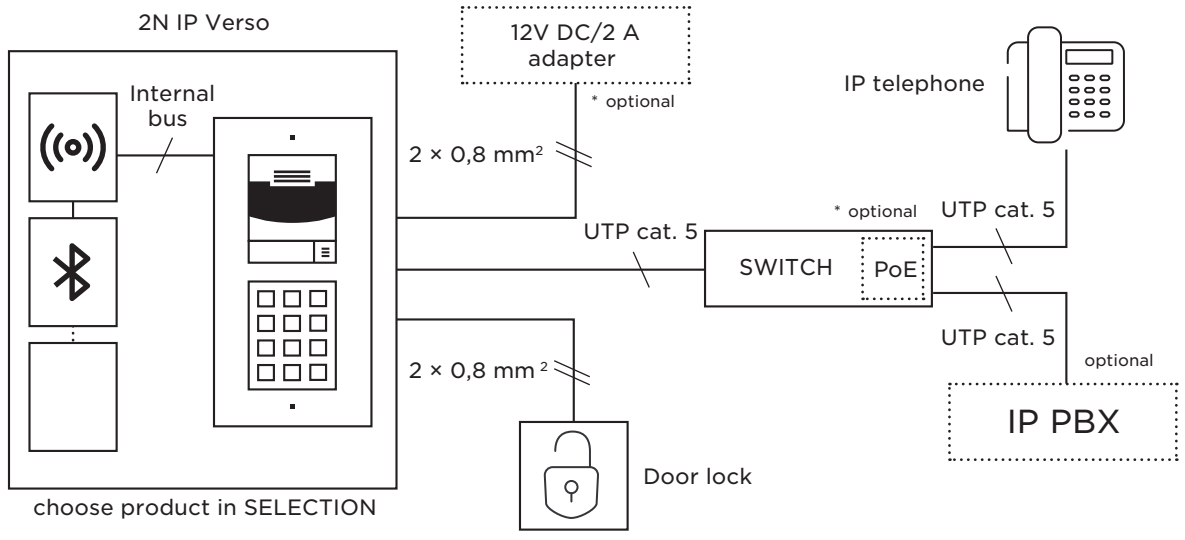
Flush mounting frame – dimensions

1 module	130 (W) x 153 (H) x 5 (D) mm
2 modules	130 (W) x 257 (H) x 5 (D) mm
3 modules	130 (W) x 361 (H) x 5 (D) mm

Flush mounting box (minimum hole dimensions)

1 module	108 (W) x 131 (H) x 45 (D) mm
2 modules	108 (W) x 238 (H) x 45 (D) mm
3 modules	108 (W) x 343 (H) x 45 (D) mm

Connection diagram



2N IP Verso


2N
RECEPTION
Contacts
Call
Entry
2N
RECEPTION
Connected
John Doe
End of call

Key features

- Fully modular IP intercom
- Discrete HD camera
- Mobile access control
- Integration with security systems

Recommended uses

At the main entrances of residential complexes

A residential complex with multiple apartments might present a nightmare for a visitor. Make it easy for them. The 2N IP Verso can feature an intuitive and clearly arranged phonebook. Use a second module to combine Bluetooth and RFID and provide flexible access for residents.

A highly secure office building

The 2N IP Verso with Touch Keypad & RFID module is a great addition to your security system. Employees can use RFID to enter the building, whilst guests use PIN codes assigned in advanced by receptionists. The intercom can also stream video to a VMS system, and full integration with 3rd party systems is easy.

A single villa with home automation

If you have a single villa with an existing home automation system, a luxury 2N IP Verso with fingerprint reader will be a great solution for reliable, fully integrated home access. Plus, it supports calls to mobile phones via the My2N App for remote door answering.



Technical parameters

2N IP Verso

Signalling protocol

SIP 2.0 (RFC - 3261)

Buttons

Buttons	transparent buttons with white backlight and easily removable label
Number of buttons	1 to 146
Numeric keypad	optional

Audio

Microphone	1 built-in microphone
Speaker	2W
Sound pressure at 1kHz at 1m distance	78dB
Codecs:	G.711, G.729, G.722, L16/16kHz

Camera (optional) & video

Resolution – JPEG	1280 x 960px
Resolution – video call	640 x 480px
Viewing angle	128° (H), 95° (V), 134° (D)
Night vision	yes
Codecs	H.263+, H.263, H.264, MJPEG, MPEG-4
Protocols	RTP/RTSP/RTCP/HTTP, ONVIF profile S and T

Touchscreen (optional)

Buttons and keyboard functions	
Operating temperature	-20°C – 60°C
Coverage level	IK07

Bluetooth reader (optional)

Version	compatible with Bluetooth 5.0 (BLE)
Range	(short - typically up to 3m*, long - typically up to 10m*)
	*distances should serve only as an approximate guide and may vary depending on the phone model and installation environment
Security	RSA-1024 and AES-128 encryption
RX sensitivity	up to -93 dBm
Mode	touch, tap in app, card, motion

RFID card reader (optional)

Supported frequencies	125 kHz variant
	13.56 MHz variant
	125 kHz and 13.56 MHz variant
Supported card types	card type compatibility depends on Order No.
125 kHz	EM4xxx
	HID Prox – versions with 125 kHz support and S in Order No. only
13.56 MHz	ISO14443A, PicoPass (HID iClass), FeliCa, ST SR(IX), NFC (2N Mobile Key)
	reads UID (CSN) and secured MIFARE DESFire EV2/EV3 cards using 2N PICard technology
Secured 13.56 MHz	ISO14443A (MIFARE DESFire), PicoPass (HID iClass), FeliCa, ST SR(IX), NFC (2N Mobile Key), HID SE (Seos, iClass, MIFARE SE)
	reads secured MIFARE DESFire EV2/ EV3 cards using 2N PICard technology
	reads PACs ID (HID iClass SEOS cards)

Fingerprint reader (optional)

Sensor	optical sensor protected by resistant glass
Reliability	algorithm for fake fingerprint detection
Resistance	resistant to water and dust
Status signalisation	acoustic and with the aid of multicoloured LEDs
Sensing area	large with dimensions of 15.24 x 20.32mm
Operating temperature	-20°C - 55°C
Certification	FBI PIV

Interfaces

Power supply	12V ± 15%/ 2A DC, or PoE
PoE	PoE 802.3af (Class 0 - 12.95W)
LAN	10/100BASE-TX with Auto-MDIX, RJ-45
Switch output	NC/NO contacts, max 30V/1A AC/DC
Active switch output	8 to 12V DC depending on Power supply (PoE: 10V; adapter: source voltage minus 2V), max 400mA
Passive / active input	1; (-30 V to +30 V)
Tamper switch	optional accessory
Supported protocols	SIP2.0, DHCP opt. 66, ONVIF, SMTP, 802.1x, RTSP, RTP, TFTP, HTTP, HTTPS, Syslog

Mechanical properties

Operating temperature	-40°C – 60°C
Storage temperature	-40°C – 70°C
Operating relative humidity	10%-95% (non-condensing)
Officially certified outdoor coverage level	IP54, IK08

Surface mounting frame – dimensions

1 module	107 (W) x 130 (H) x 28 (D) mm
2 modules	107 (W) x 234 (H) x 28 (D) mm
3 modules	107 (W) x 339 (H) x 28 (D) mm

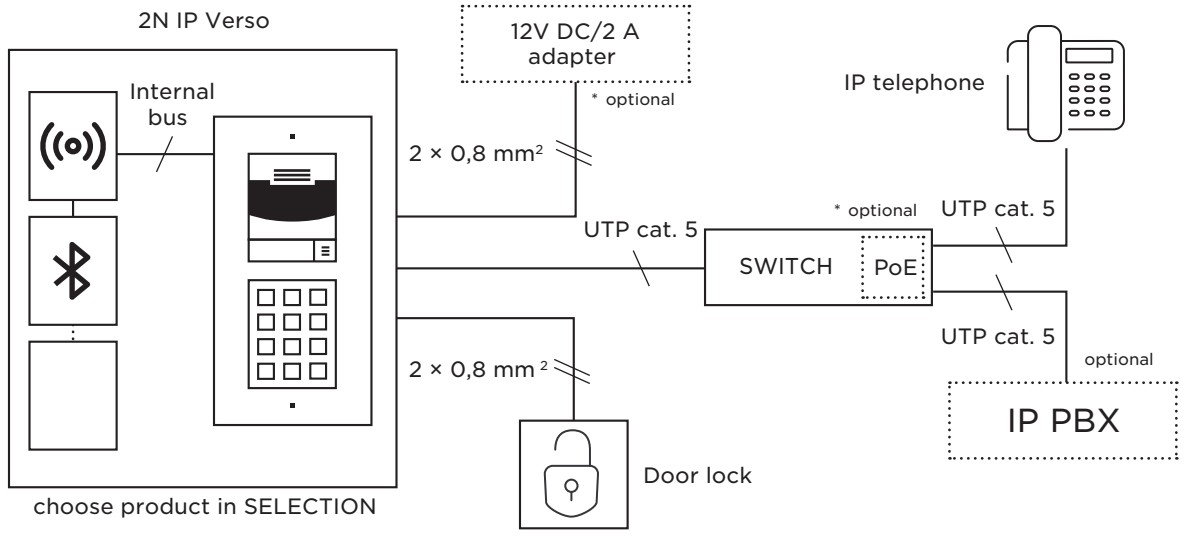
Flush mounting frame – dimensions

1 module	130 (W) x 153 (H) x 5 (D) mm
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Flush mounting box (minimum hole dimensions)

1 module	108 (W) x 131 (H) x 45 (D) mm
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Connection diagram



2N LTE Verso


2N
RECEPTION
Contacts
Call
Entry
2N
RECEPTION
Connected
John Doe
End of call

Key features

- Ideal for retrofit projects
- Secure configuration via the My2N cloud
- Wide choice: 20 modules available
- Minimal installation costs

Recommended uses

To make the upgrade to video intercoms easy and effective

State-protected historical buildings, old terraced houses - all these projects can experience difficulties when it comes to installing a PoE cable to the entrance, especially if they already have an analog system in place. Using LTE technology means no cable is needed (aside from a power supply), so the user benefits from all advanced IP features such as video communication, and you get hassle-free installation!

For reliable communication, even in remote sites

Imagine you need to bring access to a large estate with an entrance gate 3km away from the home. All you need is the 2N LTE Verso, a power supply, and for the device to be registered in the My2N Management Platform. Then, configure the intercom online and set up cloud calling to the My2N App. Hey presto - installation costs kept to a minimum!



Technical parameters

2N LTE Verso

Signalling protocol

SIP 2.0 (RFC - 3261)

Buttons

Buttons	transparent buttons with white backlight and easily removable label
Number of buttons	1 to 146
Numeric keypad	optional

Audio

Microphone	1 built-in microphone
Speaker	2W
Sound pressure at 1kHz at 1m distance	78dB
Audio stream	
Codecs	G.711, G.729, G.722, L16/16kHz

Camera

Resolution – JPEG	1280 x 960px
Resolution – video call	640 x 480px
Viewing angle	128° (H), 95° (V), 134° (D)
Night vision	yes
Codecs:	H.263+, H.263, H.264, MJPEG, MPEG-4

Touchscreen (optional)

Buttons and keyboard functions	
Operating temperature	-20°C – 60°C
Coverage level	IK07

Bluetooth reader (optional)

Version	compatible with Bluetooth 5.0 (BLE)
Range	(short - typically up to 3m*, long - typically up to 10m*)
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Security	RSA-1024 and AES-128 encryption
RX sensitivity	up to -93 dBm
Mode	touch, tap in app, card, motion

RFID card reader (optional)

Supported frequencies	125 kHz variant
	13.56 MHz variant
	125 kHz and 13.56 MHz variant
Supported card types	card type compatibility depends on Order No.
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Fingerprint reader (optional)

Sensor	optical sensor protected by resistant glass
Reliability	algorithm for fake fingerprint detection
Resistance	resistant to water and dust
Status signalisation	acoustic and with the aid of multicoloured LEDs
Sensing area	large with dimensions of 15.24 x 20.32mm
Operating temperature	-20°C - 55°C
Certification	FBI PIV

Interfaces

Power supply	12V/2A DC
Network connection	EU Bands (MHz): B1(2100), B3(1800), B7(2600), B8(900), B20(800)
	US Bands (MHz): B2(1900), B4(AWS1700), B5(850), B12/B13(700)
	output power - Class 3 (0.2W, 23dBm) @ LTE

Interfaces

Typical data use	30MB/month plus 4MB/call minute (additional services may increase data use) for calculation details see faq.2n.cz
Switch output	NC/NO contacts, max 30V/1A AC/DC
Active switch output	8 to 12V DC depending on power supply (source voltage minus 2V), max 400mA
Tamper switch	optional accessory
Supported protocols	SIP2.0, DHCP opt. 66, ONVIF, SMTP, 802.1x, RTSP, RTP, TFTP, HTTP, HTTPS, Syslog

Mechanical properties

Operating temperature	-40°C – 60°C
Storage temperature	-40°C – 70°C
Operating relative humidity	10%-95% (non-condensing)
Officially certified outdoor coverage level	IP54, IK08

Surface mounting frame – dimensions

1 module	107 (W) x 130 (H) x 28 (D) mm
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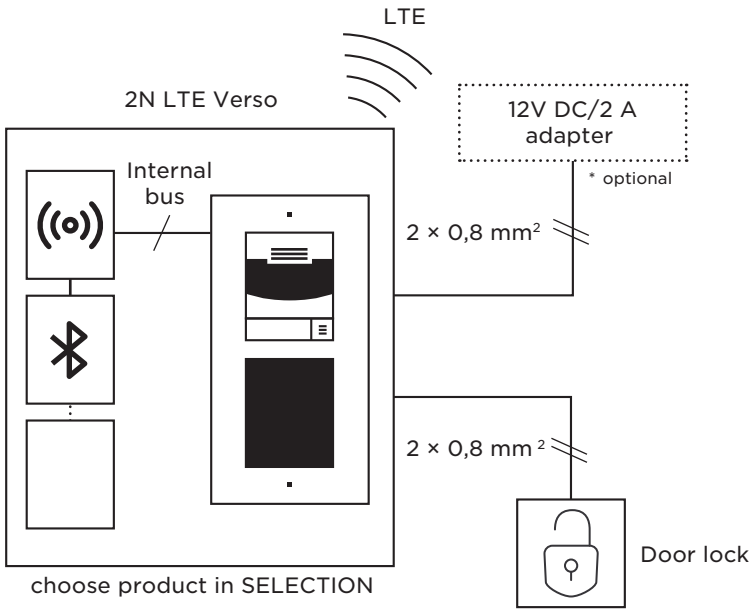
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Flush mounting box (minimum hole dimensions)

1 module	108 (W) x 131 (H) x 45 (D) mm
2 modules	108 (W) x 238 (H) x 45 (D) mm
3 modules	108 (W) x 343 (H) x 45 (D) mm

Connection diagram



Order numbers

Main units



Order No.	9155211C/ 9155211CB
Name	2N IP Verso 2.0 main unit with camera, nickel / black
Desc.	1 button, Full HD camera



Order No.	9155101C/ 9155101CB
Name	2N IP Verso main unit with camera, nickel / black
Desc.	1 button, HD camera



Order No.	9155101/ 9155101B
Name	2N IP Verso main unit without camera, nickel / black
Desc.	1 button



Order No.	9155401C-E/ 9155401CB-E
Name	2N LTE Verso main unit with camera nickel / black
Desc.	1 button, HD camera

Modules



Order No.	9155036
Name	Touch Display
Desc.	tree-structured phone book, touch keypad



Order No.	9155031/ 9155031B
Name	Keypad, nickel/black
Desc.	backlit symbols



Order No.	9155045
Name	Fingerprint Reader
Desc.	spoof fingerprint detection, optical technology



Order No.	9155047
Name	Touch Keypad
Desc.	capacitive touchscreen regular automatic calibration



Order No.	91550947
Name	Touch keypad, Bluetooth & RFID
Desc.	125kHz, 13.56MHz, NFC, WaveKey
Order No.	91550947-S
Name	Touch keypad, Bluetooth & secured RFID
Desc.	125kHz, 13.56MH (reads HID Prox and SEOS), NFC, WaveKey



Order No.	91550946
Name	Touch Keypad & RFID
Desc.	125kHz, 13.56MHz, NFC ready
Order No.	91550946-S
Name	Touch Keypad & RFID
Desc.	125kHz, secured 13.56MHz (reads HID Prox and SEOS), NFC



Order No.	91550945
Name	Bluetooth & RFID
Desc.	125kHz, 13.56MHz, NFC, WaveKey
Order No.	91550945-S
Name	Bluetooth & secured RFID
Desc.	125kHz, secured 13.56MHz (reads HID Prox and SEOS), NFC, WaveKey



Order No.	91550941 / 91550941US
Name	RFID Card Reader, 125kHz
Desc.	xx41US reads even HID Proximity cards
Order No.	91550942/ 9155086
Name	RFID Card Reader, 13.56MHz, NFC
Desc.	xx86 - secured 13.56MHz (reads HID SEOS cards)



Order No.	9155035
Name	5 Buttons
Desc.	quick dial buttons



Order No.	9155041
Name	Induction Loop
Desc.	audio signal directly into a hearing aid



Order No.	9155039
Name	Blind Panel
Desc.	1 blind module supplied with the main unit



Order No.	9155030
Name	Infopanel
Desc.	backlit panel



Order No.	9155034
Name	I/O module
Desc.	installed under another module, 2 inputs and 2 relay outputs



Order No.	9155037
Name	Wiegand
Desc.	installed under another module, for interconnection of systems

Modules



Order No.	9155038
Name	Tamper Switch
Desc.	detects any unauthorised opening of the intercom



Order No.	91550371
Name	OSDP module
Desc.	under another module, for connection with 3rd party access control system

Mounting Accessories



Order No.	9155011/ 9155011B
Name	1 module flush frame nickel / black
Desc.	frame for installation in the wall, 1 module



Order No.	9155021/ 9155021B
Name	1 module surface frame nickel / black
Desc.	frame for installation on the surface, 1 module



Order No.	9155012/ 9155012B
Name	2 module flush frame nickel / black
Desc.	frame for installation in the wall, 2 modules



Order No.	9155022/ 9155022B
Name	2 module surface frame nickel / black
Desc.	frame for installation on the surface, 2 modules



Order No.	9155013/ 9155013B
Name	3 module flush frame nickel / black
Desc.	frame for installation in the wall, 3 modules



Order No.	9155023/ 9155023B
Name	3 module surface frame nickel / black
Desc.	frame for installation on the surface, 3 modules



Order No.	9155061
Name	1 module backplate
Desc.	backplate for installation on glass or uneven surface, 1 module



Order No.	9155062
Name	2 modules backplate
Desc.	backplate for installation on glass or uneven surface, 2 modules



Order No.	9155063
Name	3 modules backplate
Desc.	backplate for installation on glass or uneven surface, 3 modules



Order No.	9155064
Name	2 (w) x2 (h) modules backplate
Desc.	backplate for installation on glass or uneven surface, 2x2 modules



Order No.	9155066
Name	2 (w) x3 (h) modules backplate
Desc.	backplate for installation on glass or uneven surface, 2x3 modules



Order No.	9155067
Name	3 (w) x3 (h) modules backplate
Desc.	backplate for installation on glass or uneven surface, 3x3 modules



Order No.	9155065
Name	3 (w) x2 (h) modules backplate
Desc.	backplate for installation on glass or uneven surface, 3x2 modules



Order No.	9155072
Name	Wedge Backplate
Desc.	angle 25°, only for surface installation of 2N IP/LTE Verso double-modules

Mounting Accessories



Order No.	9155014
Name	1 module flush box
Desc.	box for installation in the wall, 1 module



Order No.	9155015
Name	2 modules flush box
Desc.	box for installation in the wall, 2 modules



Order No.	9155016
Name	3 modules flush box
Desc.	box for installation in the wall, 3 modules



Order No.	9155010
Name	Gooseneck mounting hood
Desc.	mounting hood for gooseneck installation, requires gooseneck stand (9151005 or 9151007)

Other



Order No.	9155050
Name	Extension cable- 1m long
Desc.	connection of modules in greater distance from the main unit



Order No.	9155054
Name	Extension cable- 3m long
Desc.	connection of modules in greater distance from the main unit



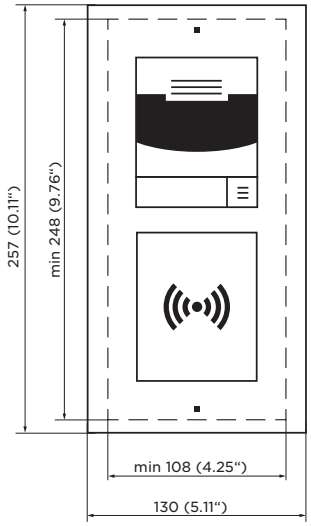
Order No.	9155055
Name	Extension cable- 5m long
Desc.	connection of modules in greater distance from the main unit

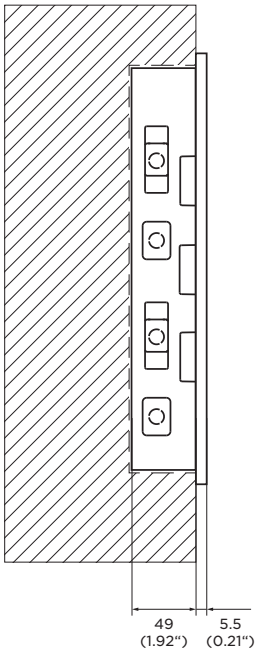


Order No.	9155048
Name	External LTE antenna
Desc.	2m long cable

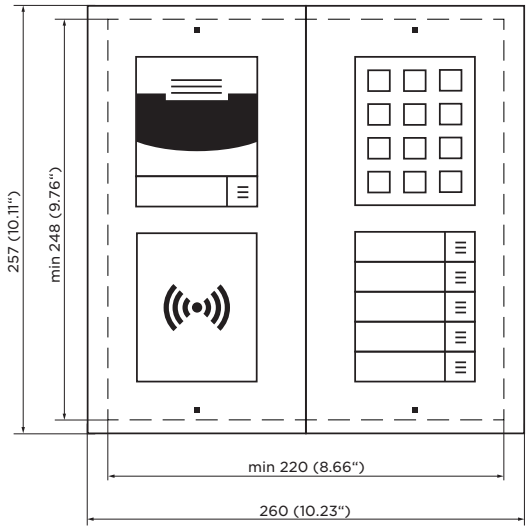
Installation options

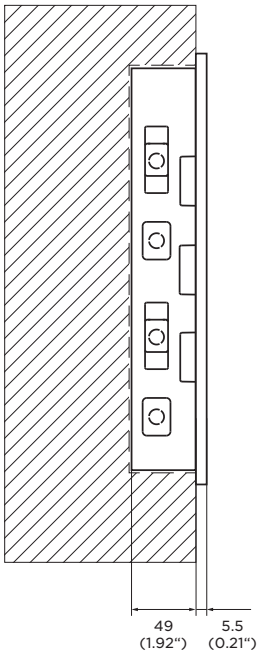
In-wall 2 modules



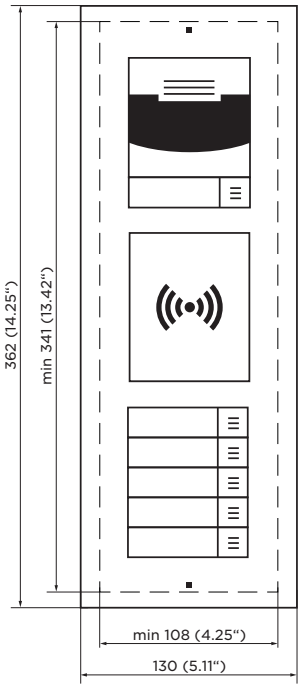


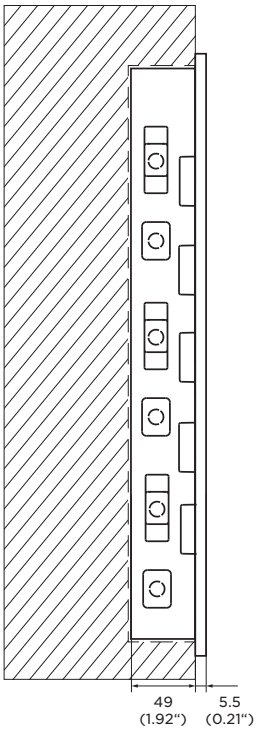
2× In-wall 2 modules



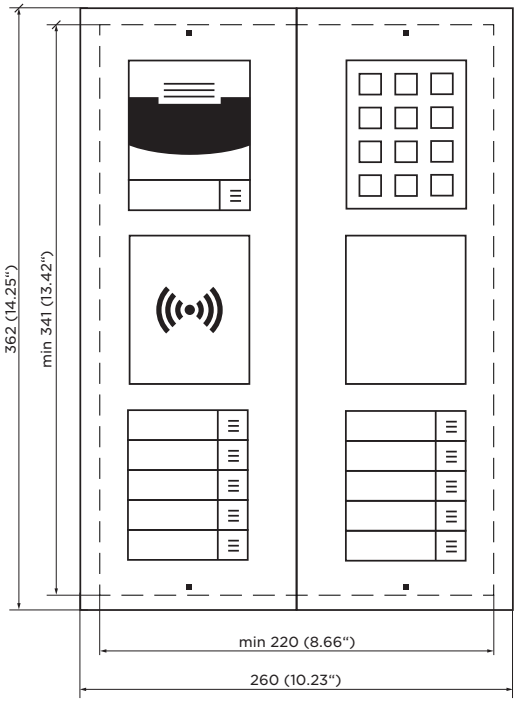


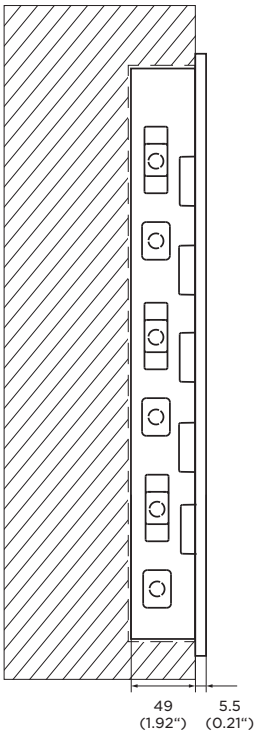
In-wall 3 modules



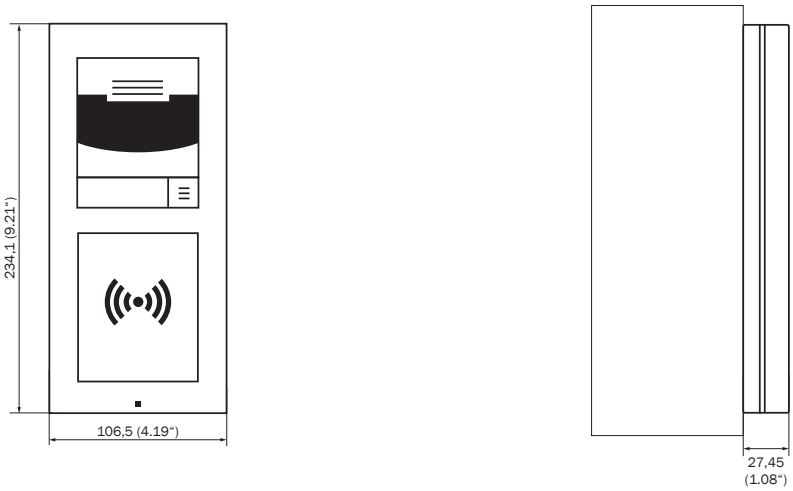


2× In-wall 3 modules

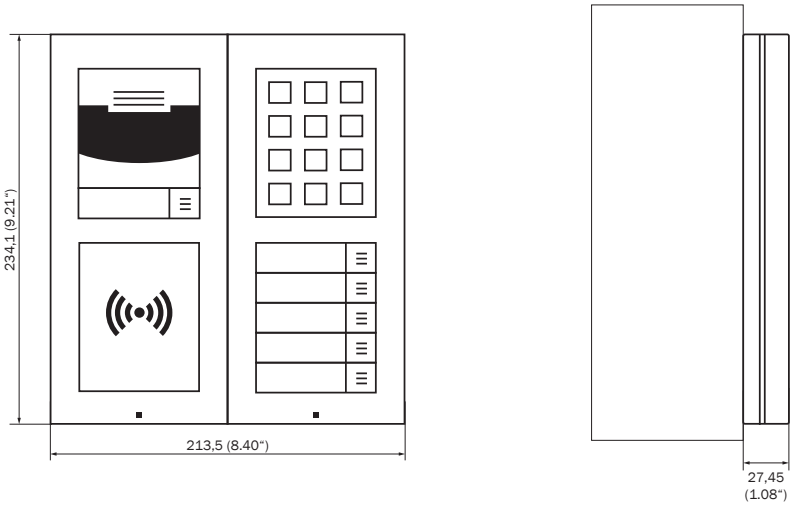




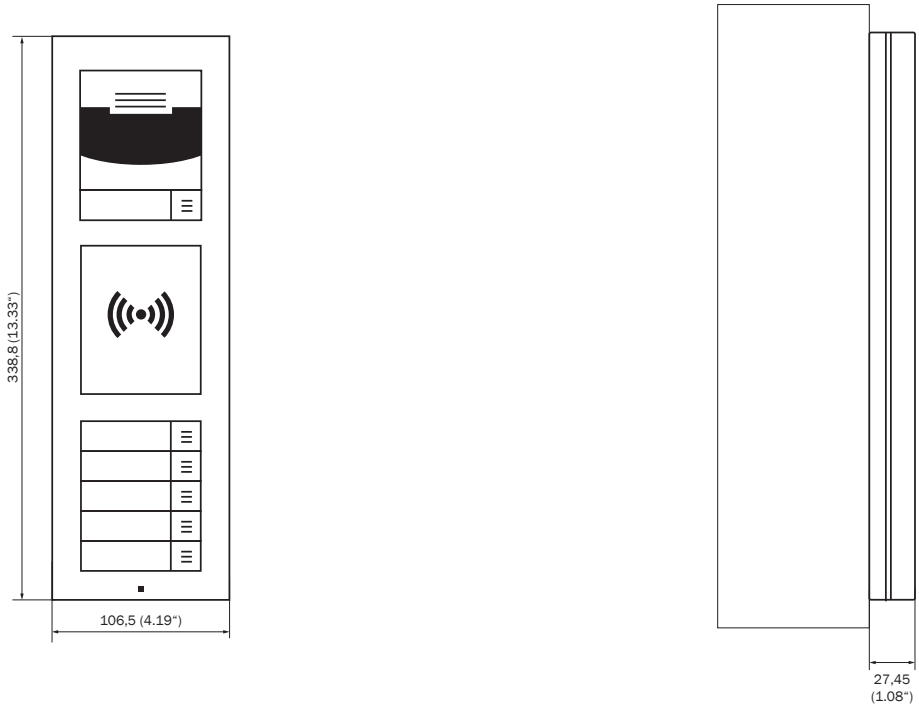
Wall-mounted 2 modules



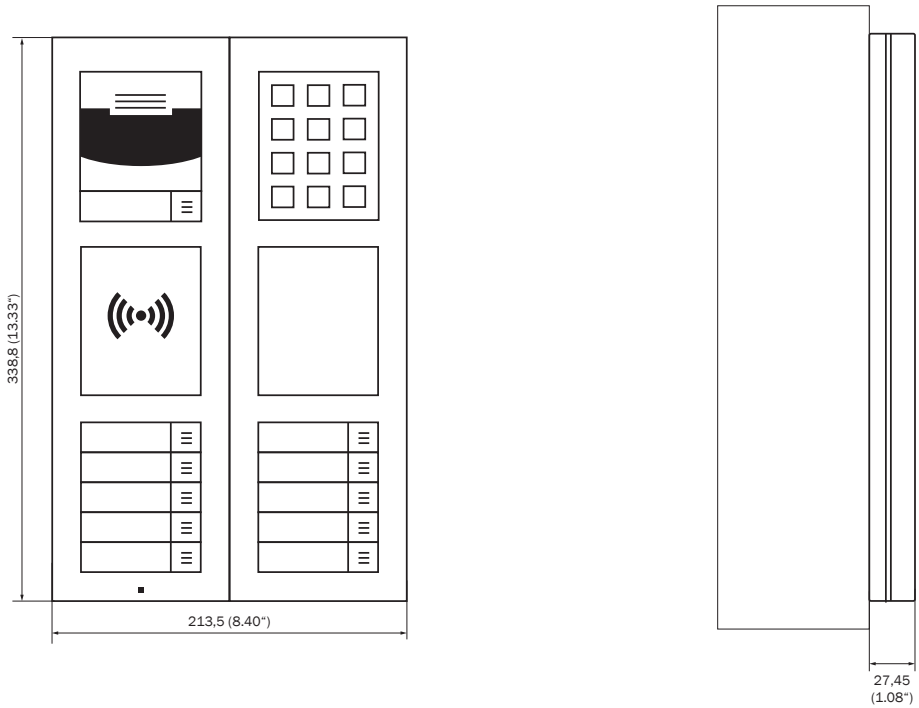
2× Wall-mounted 2 modules



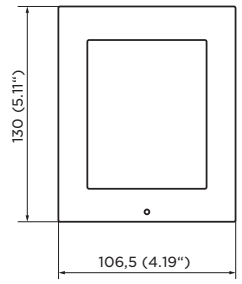
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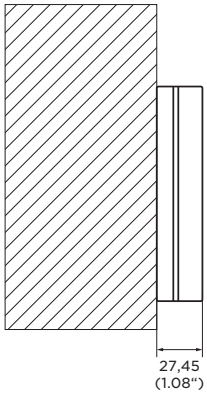


2× Wall-mounted 3 modules

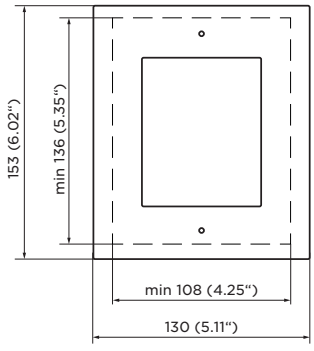


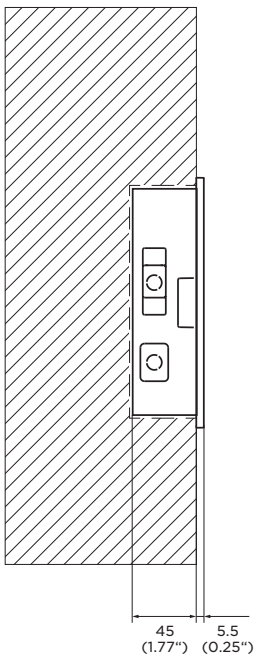
Wall-mounted 1 module





In-wall 1 module





2N IP Force



The world’s most durable IP intercom

The 2N IP Force can withstand even the most demanding conditions. Benefit from modern features and integration potential for advanced site security.



2N IP Force



CISCO milestone Genetec LENEL:S2 tyco AXIS COMMUNICATIONS AVAYA SIEMENS

Key features

- Extremely durable
- High-quality night vision
- Clear sound, even in noisy environments
- Advanced security features
- Easy to integrate with CCTV, VMS, and leading security systems

Recommended uses

To fortify schools or universities

Use the 2N IP Force to ensure something key to tight security: clear communication with visitors. For absolute clarity and integration with VMS, use the version of the intercom with a wide-angle HD camera.

To reliably secure detention centers

Ensure durable, reliable security in the most demanding of environments and guarantee the safety of everyone on-site. The 2N IP Force adheres to IP69K and IK10 standards and comes with a security relay option that prevents intrusion by detecting any unauthorized manipulation of the electronic locking system.

For durable vehicle access control

A bump from a wing mirror is light work for the 2N IP Force, which makes it perfect for garage entrances and parking lots. Want to avoid queues? The 2N parking communication solution allows users to speak clearly to the assistance center. Gain a competitive advantage by providing customers with the option to get advice at the touch of a button!



Technical parameters

2N IP Force

Signalling protocol

SIP 2.0 (RFC - 3261)

Buttons

Button format	transparent buttons with white backlight and easily removable label
Number of buttons	1, 2 or 4
Numeric keypad	Optional

Audio

Microphone	2 built-in microphones
Speaker	10W
Sound pressure at 1kHz at 1m distance (10W speaker)	94dB

Audio stream

Codecs	G.711, G.729, G.722, L16/16kHz

Camera

Resolution – HD camera	1280 x 960px
Viewing angle	135° (H), 109° (V)
Night vision	Yes

Video stream

Codecs	H.263+, H.263, H.264, MJPEG

Interfaces

Power supply	12V ± 15%/ 2A DC, or PoE
PoE	PoE 802.3af (Class 0 - 12.95W)
LAN	10/100BASE-TX with Auto-MDIX function
Passive switch	NC/NO contacts, max 30V/1A AC/DC
Active switch output	9 to 13V DC depending on Power supply (PoE: 9V; adapter: source voltage minus 1V), max 700mA
Tamper switch	optional accessory
Supported protocols	SIP2.0, DHCP opt. 66, SMTP, 802.1x, RTSP, RTP, TFTP, HTTP, HTTPS, Syslog, ONVIF

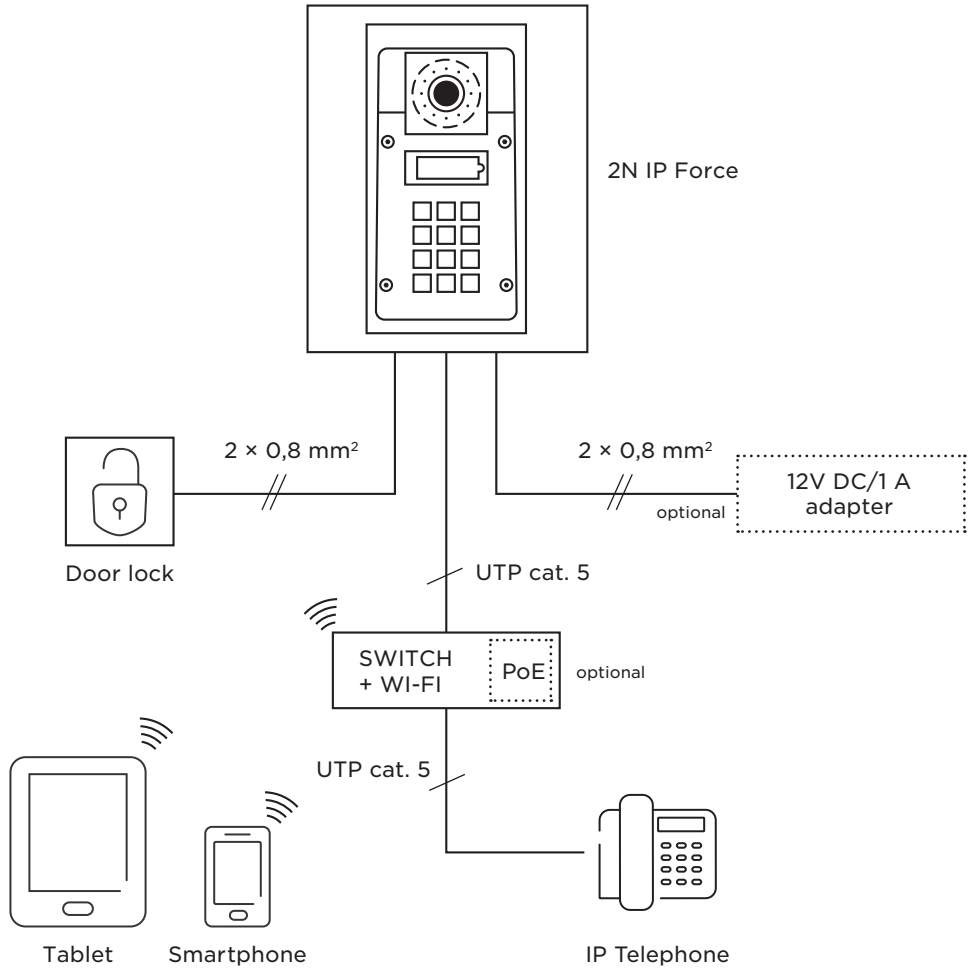
RFID card reader

Supported frequencies	13.56MHz & 125kHz
Support for NFC	Yes, HCE and the 2N Mobile Key application needed

Mechanical properties

Weight	max. 2000g
Operating temperature	-40°C – 55°C
Storage temperature	-40°C – 70°C
Operating relative humidity	10%-95% (non-condensing)
Dimensions	217 x 109 x 83mm
Coverage level	IP69K

Connection diagram



Order numbers

Main unit



Order No.	**9151101CHW**
Name	2N IP Force, 1 button + SD camera/ HD camera
Desc.	1 button, HD camera



Order No.	**9151101W**
Name	2N IP Force, 1 button, without camera
Desc.	1 button



Order No.	**9151101CHKW**
Name	2N IP Force, 1 button + keypad + SD camera/ HD camera
Desc.	1 button, keypad, HD camera



Order No.	**9151101KW**
Name	2N IP Force, 1 button + keypad, without camera
Desc.	1 button, keypad



Order No.	**9151101CHRPW**
Name	2N IP Force, 1 button + pictograms + card reader ready + SD camera/ HD camera
Desc.	1 button, pictograms, card reader ready, HD camera



Order No.	**9151101RPW**
Name	2N IP Force, 1 button + pictograms + card reader ready, without camera
Desc.	1 button, pictgrams, card reader ready



Order No.	**9151102CHRW**
Name	2N IP Force, 2 buttons + card reader ready + SD camera/ HD camera
Desc.	2 buttons, card reader ready, HD camera



Order No.	**9151102RW**
Name	2N IP Force, 2 buttons + card reader ready, without camera
Desc.	2 buttons, card reader ready



Order No.	**9151104CHW**
Name	2N IP Force, 4 buttons + SD camera/ HD camera
Desc.	4 buttons, HD camera



Order No.	**9151104W**
Name	2N IP Force, 4 buttons, without camera
Desc.	4 buttons

Card readers



Order No.	9151022
Name	RFID Card Reader 125kHz, OSDP
Desc.	OSDP interface, 2 logical inputs and 2 output relays, tamper switch



Order No.	9151023
Name	RFID Card Reader 13.56MHz, NFC, OSDP
Desc.	NFC ready, OSDP interface, 2 logical inputs and 2 output relays, tamper switch



Order No.	9151023S
Name	Secured RFID Card Reader 13.56MHz, NFC, OSDP
Desc.	NFC ready, OSDP interface, 2 logical inputs and 2 output relays, tamper switch



Order No.	9151011
Name	RFID Card Reader 125kHz, Wiegand
Desc.	Wiegand interface, 2 logical inputs and 2 output relays, tamper switch



Order No.	9151031
Name	RFID Card Reader 13.56MHz, NFC, Wiegand
Desc.	NFC ready, Wiegand interface, 2 logical inputs and 2 output relays, tamper switch



Order No.	9151031S
Name	Secured RFID Card Reader 13.56MHz, NFC, Wiegand
Desc.	NFC ready, Wiegand interface, 2 logical inputs and 2 output relays, tamper switch



Order No.	9151010
Name	2N IP Force/Safety, Additional Switch
Desc.	additional input and output relays, tamper switch



Order No.	9151021
Name	2N IP Force Induction loop
Desc.	audio transfer to a hearing aid



Order No.	9151198SET
Name	Security Bundle for 2N IP Force
Desc.	includes additional switch and 2N Security Relay

Mounting



Order No.	9151001
Name	2N IP Force, flush box
Desc.	brick flush mounting box



Order No.	9151002
Name	2N IP Force, plaster box
Desc.	plasterboard flush mounting box



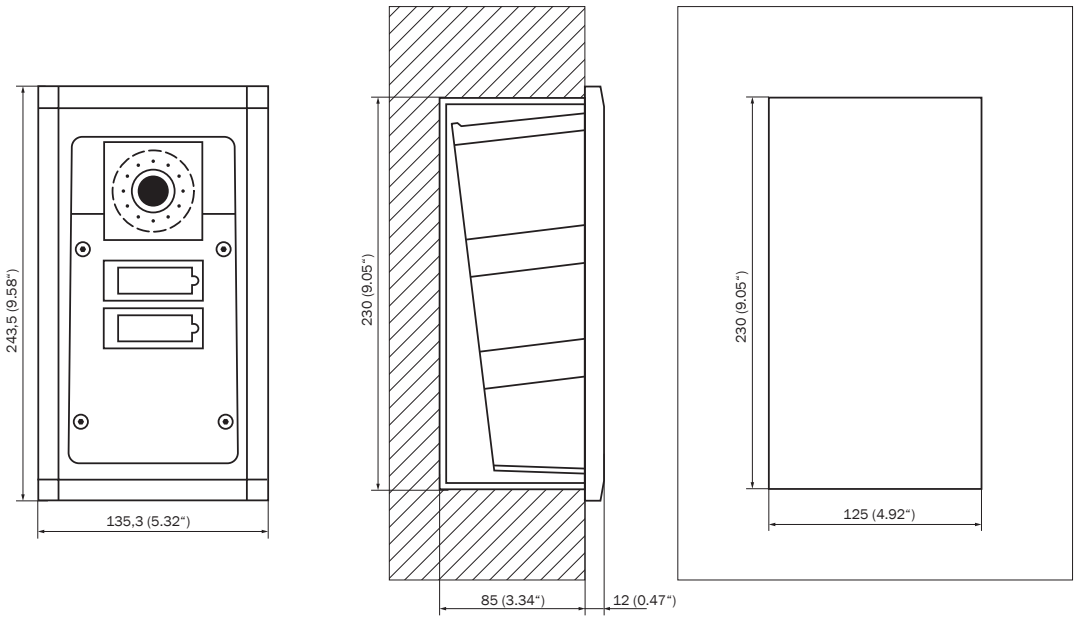
Order No.	9151005
Name	2N IP Force/Safety - Gooseneck
Desc.	Gooseneck stand, height 120cm/47in



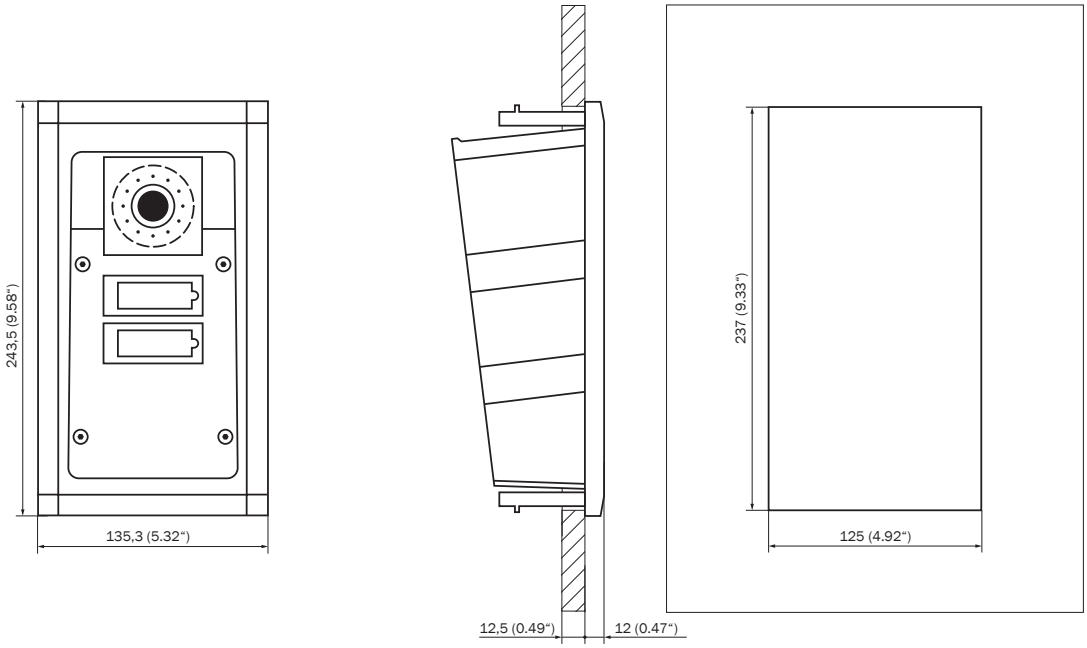
Order No.	9151007
Name	2N IP Force/Safety - Gooseneck stand double
Desc.	Gooseneck stand double, height 115cm/45in and 203cm/80in

Installation options

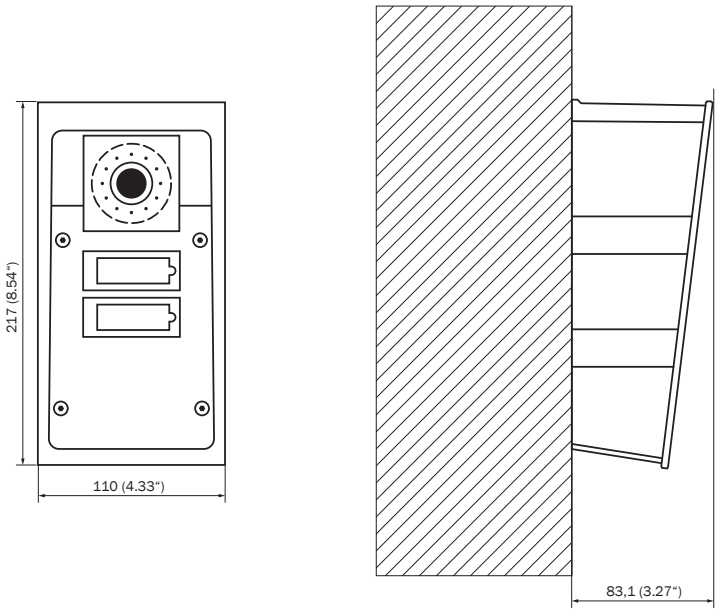
Flush-mounted with box

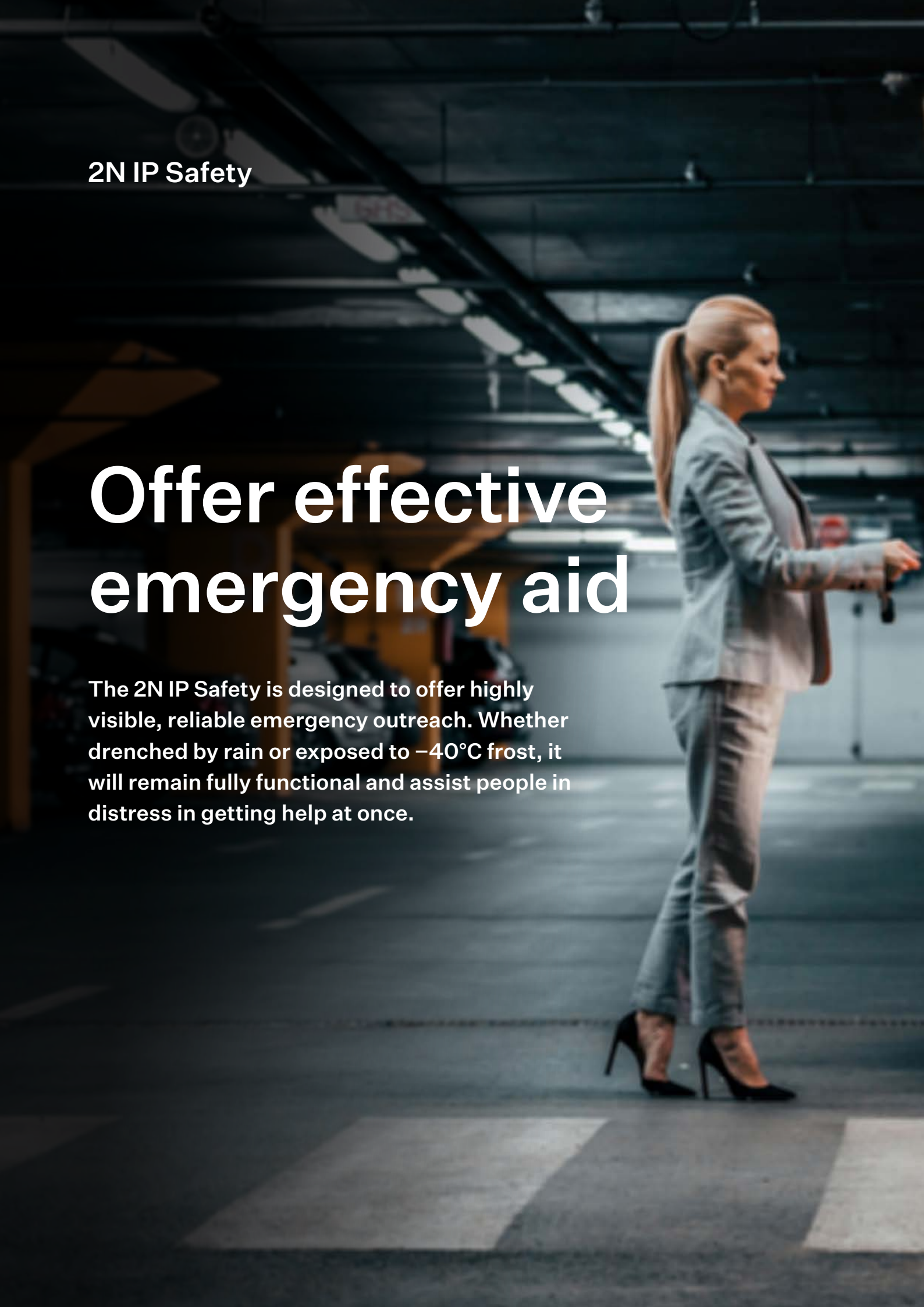


Mounting in plasterboard



Wall-mounted





2N IP Safety

Offer effective emergency aid

The 2N IP Safety is designed to offer highly visible, reliable emergency outreach. Whether drenched by rain or exposed to −40°C frost, it will remain fully functional and assist people in distress in getting help at once.


C
25
C
30
INFO
SOS

2N IP Safety



Key features

- Robust metal body
- Facilitates fast help in emergencies
- High intelligibility
- Automatic audio loop test

Recommended uses

To make cities safer

The 2N IP Safety has been installed many times within cities to offer residents and tourists easily identifiable, reliable emergency communication. It can also be integrated with VMS and public address systems. In the event of an incident, the external IP camera near the intercom will zoom in on the area, identifying the threat, and the intercom speaker will sound a safety warning.

On roads & highways

Accidents are commonplace on highways and this is where 2N IP Safety comes into its own! IP technology offers remote control of the intercom plus the chance for regular audio loop tests, so dispatch staff will rest easy knowing that drivers can reach out for help at any time.

In industrial enviroments

In critical situations, 100% reliability and simple operation are essential. In case of an industrial incident, the 2N IP Safety can halt the entire production line and simultaneously send an alert to a control center. Plus, using the stream from external cameras, it’s easy to manage the situation and get back on track in no time.



Technical parameters

2N IP Safety

Signalling protocol

SIP 2.0 (RFC - 3261)

Buttons

Button design	metal buttons with blue backlight or a red emergency button
Number of buttons	1 or 2
Numeric keypad	no

Audio

Microphone	2 built-in microphones
Speaker	10W
Sound pressure at 1kHz at 1m distance (10W speaker)	94dB
Codecs	G.711, G.729, G.722, L16/16kHz

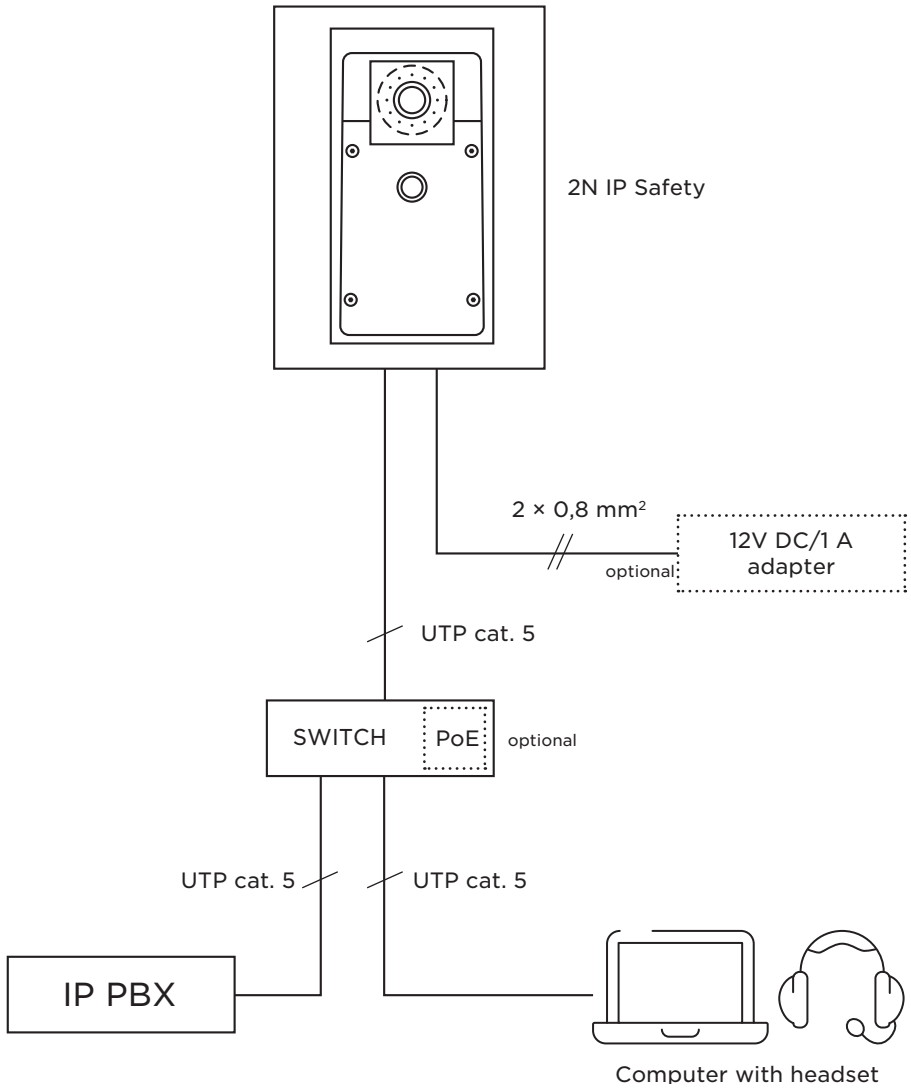
Interfaces

Power supply	12V ± 15%/2A DC, or PoE
PoE	PoE 802.3af (Class 0 - 12.95W)
LAN	RJ-45, 10/100BASE-TX with Auto-MDIX
Passive switch	NC/NO contacts, max 30V/1A AC/DC
Active switch output	9 to 13V DC depending on Power supply (PoE: 9V; adapter: source voltage minus 1V), max 700mA
Tamper switch	optional accessory
Supported protocols	SIP2.0, DHCP opt. 66, SMTP, 802.1x, RTSP, RTP, TFTP, HTTP, HTTPS, Syslog, ONVIF

Mechanical properties

Weight	max. 2000g
Operating temperature	-40°C – 55°C
Storage temperature	-40°C – 70°C
Operating relative humidity	10%-95% (non-condensing)
Dimensions	217 x 109 x 83mm
Ingress Protection	IP69K

Connection diagram



Order numbers



Order No.	9152101W
Name	2N IP Safety, 1 button
Desc.	1 button, 10W speaker



Order No.	9152102W
Name	2N IP Safety, 2 button
Desc.	INFO button and SOS button, blue backlight



Order No.	9152101MW
Name	2N IP Safety, red button
Desc.	red emergency button



Order No.	9152000
Name	2N IP Safety, frame
Desc.	2N IP Safety - metal frame (orange colour)



Order No.	9151010
Name	2N IP Force/Safety, Additional Switch
Desc.	additional input and output relays, tamper switch

Mounting



Order No.	9151001
Name	2N IP Safety, flush box
Desc.	brick flush mounting box



Order No.	9151002
Name	2N IP Safety, flush box
Desc.	plasterboard flush mounting box



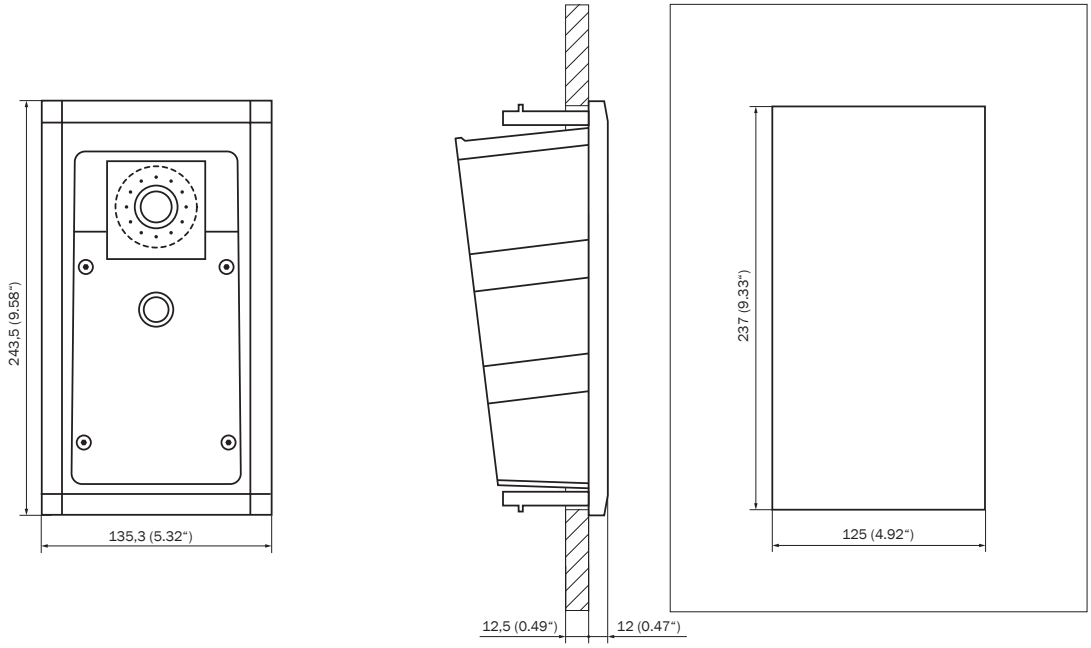
Order No.	9151005
Name	2N IP Force/Safety - Gooseneck
Desc.	Gooseneck stand, height 120cm/47in



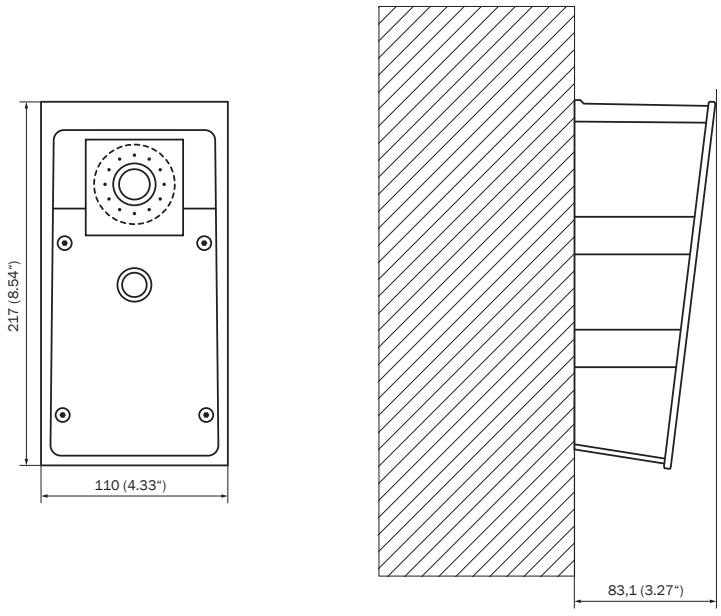
Order No.	9151007
Name	2N IP Force/Safety - Gooseneck stand double
Desc.	Gooseneck stand double, height 115cm/45in and 203cm/80in

Installation options

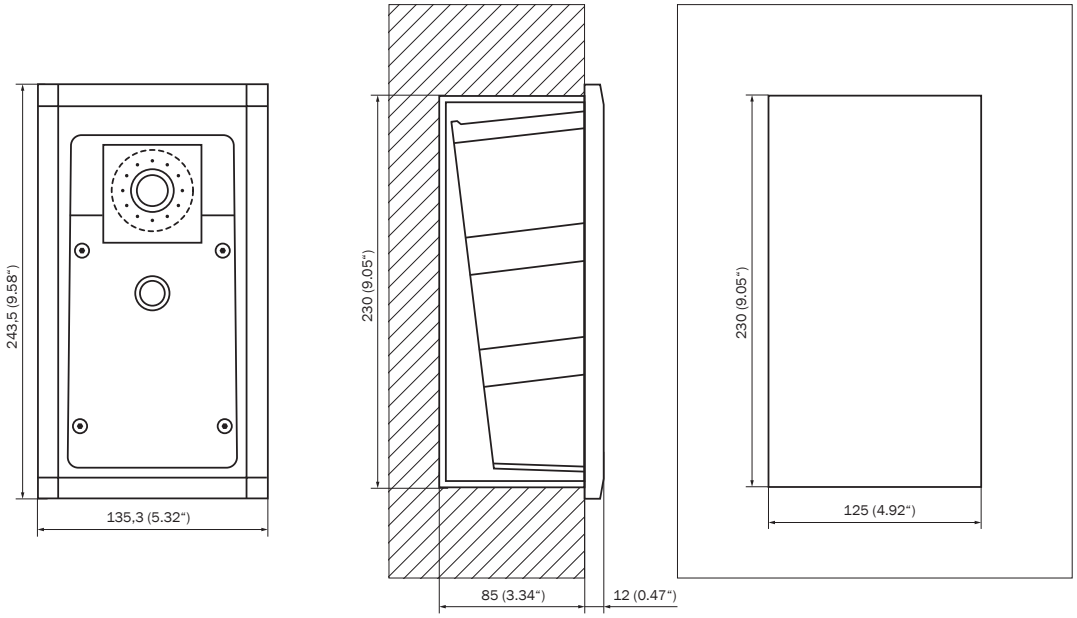
Mounting in plasterboard

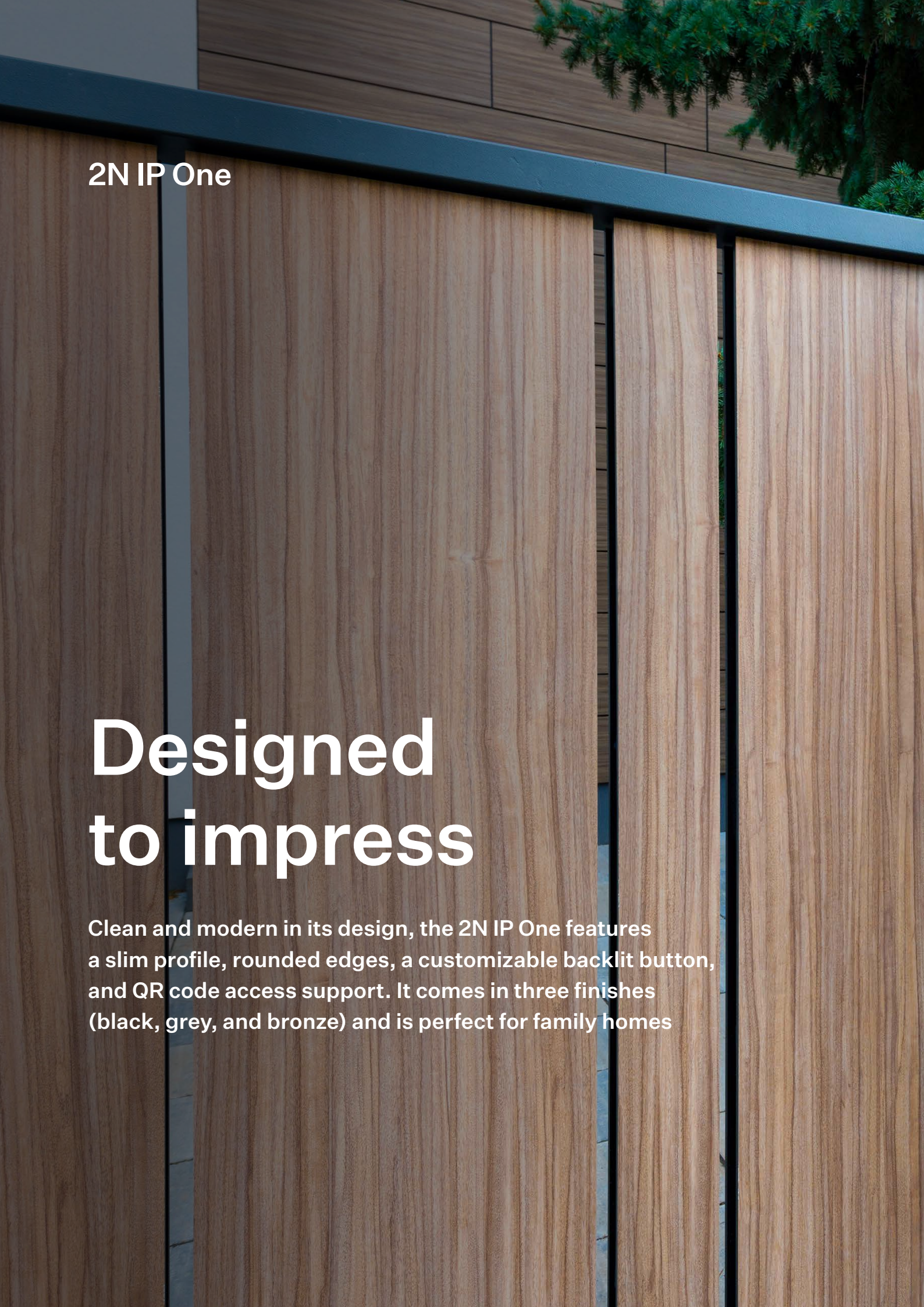


Wall-mounted



Mounting in plasterboard





2N IP One

Designed to impress

Clean and modern in its design, the 2N IP One features a slim profile, rounded edges, a customizable backlit button, and QR code access support. It comes in three finishes (black, grey, and bronze) and is perfect for family homes



2N IP One



Control4 | SAVANT | CRESTRON | RTI | basalte | AXIS COMMUNICATIONS | milestone | cisco

Key features

- Clean, minimalist design
- Aluminum casing ensures exceptional durability
- Full (HD) non-stop surveillance
- Connects with Home Automation devices

Recommended uses

To answer the door anytime, anywhere

It doesn’t matter if you’re at home or thousands of miles away. With 2N IP One you can remotely answer the door for a visitor using My2N app or let them enter your property using a QR code.

To connect with home automation devices

Thank to open protocols and multiple plug-ins, you can integrate the 2N IP One with leading home automation systems. Let it interact with lighting, air condition, entertainment and security devices.



Technical parameters

2N IP One

Power supply

Type	PoE and/or 12 V/1 A DC
PoE	802.3af (12.95 W max.)

Interfaces

LAN	10/100BASE-TX with Auto-MDIX, RJ-45 jack
Recommended cabling	Cat-5e or better
Active switch output	12 V DC/max 600 mA
Passive switch	NO contacts, 20V AC or 30V DC, 1A
Inputs	1 input - in passive/active mode (-30 V to +30 V DC) OFF = open or Uin> 1.5 V ON = short-circuit or Uin< 1.5 V
Tamper switch	yes

Audio

Microphone	1 built-in microphone
Amplifier	5 W RMS (Class D)
Speaker	1 integrated, 3W
LINE OUT	N/A
Volume control	adjustable with automatic adaptive mode
Full duplex	Yes (AEC)
Audio output	3W
Protocols	RTP/RTSP/SRTP
Codecs	G.711, G.729, G.722, L16/16kHz

Camera & video

Sensor	1/2.7'' colour CMOS
Focal length	1.93 mm
View angle „peephole“	156° (H), 116° (V)
Infrared light	yes
WDR	yes
Minimal illumination	0,3 lux without IR illumination
Protocols	RTP/RTSP/RTCP/HTTP, ONVIF v2.4 profile S
Codecs	H.264, MJPEG, Zipstream
Resolution H.264, MJPEG	max. 1920 x 1440 (4:3)
Frame rate	max. 30 fps

Dimensions

Device	78 (W) x 172 (H) x 53 (D) mm
Device (above the wall)	78 (W) x 172 (H) x 10 (D) mm
Flush mounting box	67 (W) x 167 (H) x 56 (D) mm

Mechanical Properties

Frame (cover)	aluminium casting (three colors)
Button	1
Processor	Axis ARTPEC-7
Operating temperature	-40°C to +60°C
Storage temperature	-40°C to +70°C
Operating relative humidity	10%-95% (non-condensing)
Weight	355 g
Cover rating	IP66 and IK08

Order numbers



Order No.	9158104
Name	2N IP One - Grey
Desc.	durable family intercom with full HD video



Order No.	9158105
Name	2N IP One - Bronze
Desc.	durable family intercom with full HD video



Order No.	9158106
Name	2N IP One - Black
Desc.	durable family intercom with full HD video

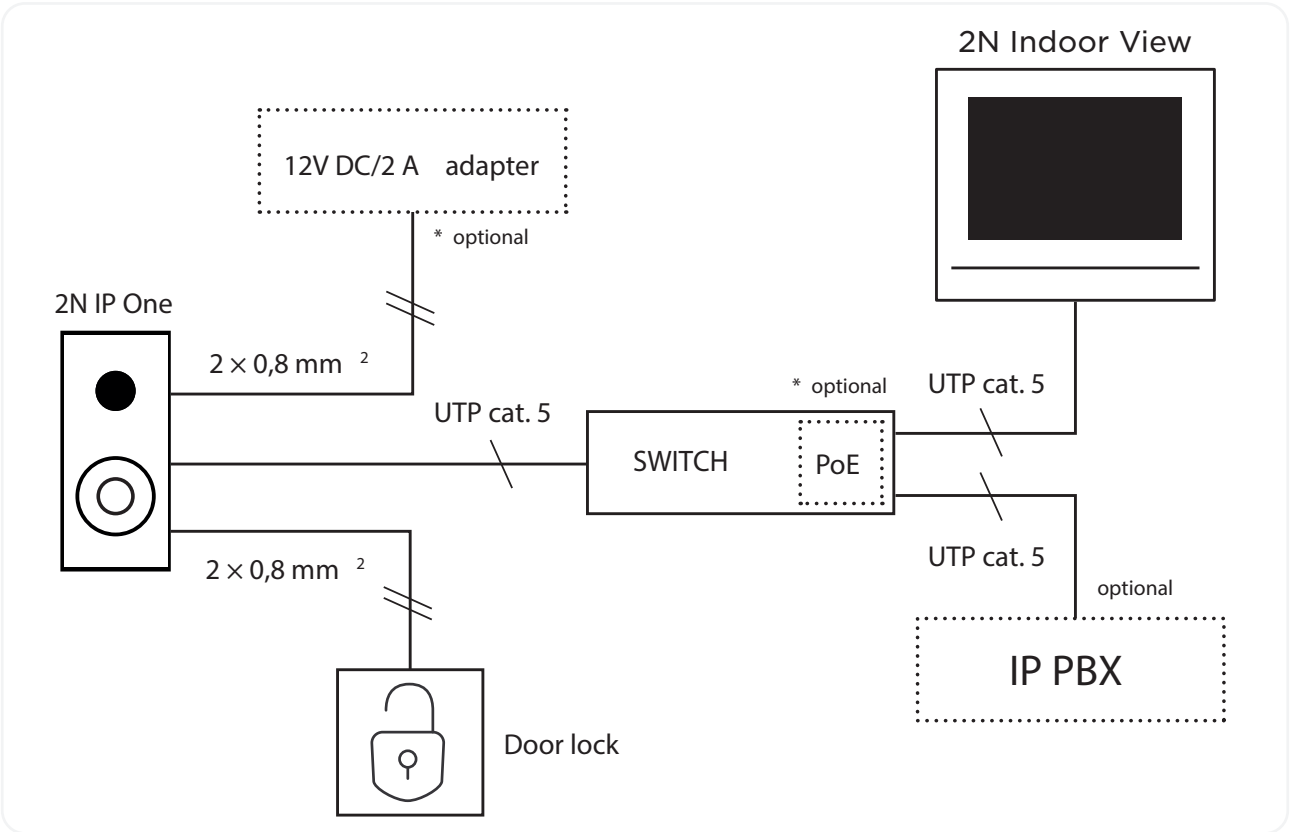


Order No.	9158001
Name	Flush installation box
Desc.	box for installation in the wall



Order No.	9158002
Name	Surface mount box
Desc.	box for installation on the wall, only in black colour

Connection diagram



2N IP Solo



Compact, smart, easy to integrate

A great addition to smart home entrances. It features a hidden HD camera, multiple modern functions including video calls to users' mobile phones, and easy integration into leading home automation systems.



2N IP Solo



Key features

- Integrates the entrance into smart homes
- Sharp video quality: day and night
- Integration with Home Automation
- Tailored for the residential market

Recommended uses

As a smart doorbell for smart homes

The 2N IP Solo is an ideal intercom for a single family with tall demands for their access control. It features video calls to mobile phones, interconnection with smart home devices, motion detection, and full integration with CCTV systems, in one compact intercom!

For efficient communication in offices

The 2N IP Solo is also perfectly suited for office buildings where an indoor intercom is needed for communication in addition to access control. For example, an entrance that leads from an unsecured staircase, or as a secondary level of communication at the entrance to reception.



Technical parameters

2N IP Solo

Signalling protocol

SIP 2.0 (RFC - 3261)

Buttons

Buttons	transparent buttons with white backlight and easily removable label
Number of buttons	1

Audio

Microphone	1 built-in microphone
Speaker	2W
Sound pressure at 1kHz at 1m distance	78dB
Codecs	G.711, G.729, G.722, L16/16kHz

Camera (optional)

Resolution – JPEG	1280 x 960px
Resolution – video call	640 x 480px
Viewing angle	128° (H), 95° (V), 134° (D)
Night vision	yes
Codecs	H.263+, H.263, H.264, MJPEG, MPEG-4

Interfaces

Power supply	12V ± 15%/ 2A DC, or PoE
PoE	PoE 802.3af (Class 0 - 12.95W)
LAN	10/100BASE-TX with Auto-MDIX, RJ-45
Switch output	NC/NO contacts, max 30 V/1A AC/DC
Active switch output	8 to 12V DC depending on Power supply (PoE: 10V; adapter: source voltage minus 2V), max 400mA
Tamper switch	yes, inbuilt
Supported protocols	SIP2.0, DHCP opt. 66, ONVIF, SMTP, 802.1x, RTSP, RTP, TFTP, HTTP, HTTPS, Syslog

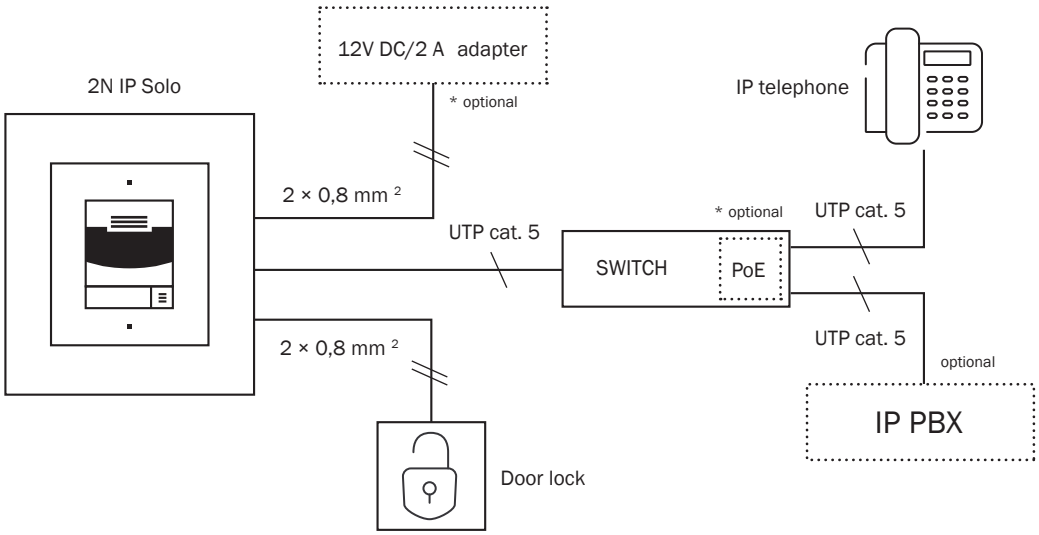
Mechanical properties

Operating temperature	-40°C – 60°C
Storage temperature	-40°C – 70°C
Operating relative humidity	10%-95% (non-condensing)
Officially certified outdoor coverage level	IP54, IK08

Dimensions

Frame for surface installation – 1 module	107 x 130 x 28mm
Frame for flush installation – 1 module	130 x 153 x 5mm

Connection diagram



Order numbers



Order No.	9155301CF/ 9155301CBF
Name	2N IP Solo with camera, nickel/ black
Desc.	unit for flush installation, in nickel and black colour



Order No.	9155301CS/ 9155301CBS
Name	2N IP Solo with camera, nickel/ black
Desc.	unit for surface installation, in nickel and black colour



Order No.	9155301F/ 9155301BF
Name	2N IP Solo without camera, nickel/black
Desc.	unit for flush installation, in nickel and black colour



Order No.	9155301S/ 9155301BS
Name	2N IP Solo without camera, nickel/black
Desc.	unit for surface installation, in nickel and black colour



Order No.	9155017
Name	2N IP Solo, flush mounting box
Desc.	backbox for flush installation



Order No.	9155068
Name	2N IP Solo, backplate
Desc.	backplate for easier surface installation (uneven surface)



Order No.	9155071
Name	Wedge backplate
Desc.	angle 25°, for surface installation only



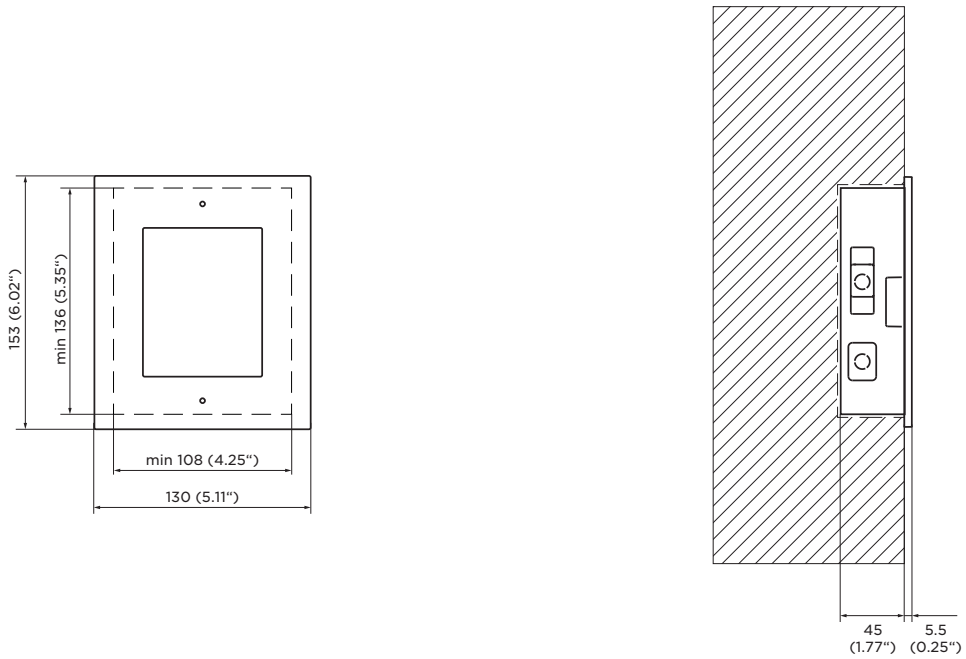
Order No.	9155074
Name	Glass mount
Desc.	for installation on a glass surface, must be combined with 9155068

Dimensions and fitting

Wall-mounted



Flush-mounted



2N IP Base

Simple yet effective

Designed especially for small projects, the 2N IP Base is easy to install and provides high-quality communication.





2N IP Base



webex by cisco | milestone | Genetec | 3CX | digiFort | AXIS COMMUNICATIONS | zoom | SIEMENS

Key features

- Withstands outdoor challenges
- Wide-angle HD camera
- 10 minute installation

Recommended uses

For door communication in small offices

This compact intercom is perfect for securing small offices. The HD camera with a wide viewing angle allows employees to vet visitors or check up on the office surroundings.

As an entry level intercom for the residential market

Easy installation using the mounting frame, high durability outdoors, and all the essential access features residents need. Both the 1 and 2 button variations can be included in a basic package, and video calling with visitors is a much-appreciated bonus.



Technical parameters

2N IP Base

Signalling protocol

SIP 2.0 (RFC - 3261)

Buttons

Button type	transparent, plastic, backlit
Number of buttons	1 or 2 (the pack holds plastic buttons for both 1 or 2-button options)

Audio

Microphone	built-in microphone
Speaker	2W
Sound pressure at 1kHz at 1m distance	78dB
Codecs:	G.711, G.722, G.729

Camera

HD camera resolution	1280 × 960px
Viewing angle	135° horizontal 109° vertical
Night vision	no
Codecs	H.263+, H.263, H.264 only for VoIP calls MJPEG for http streaming

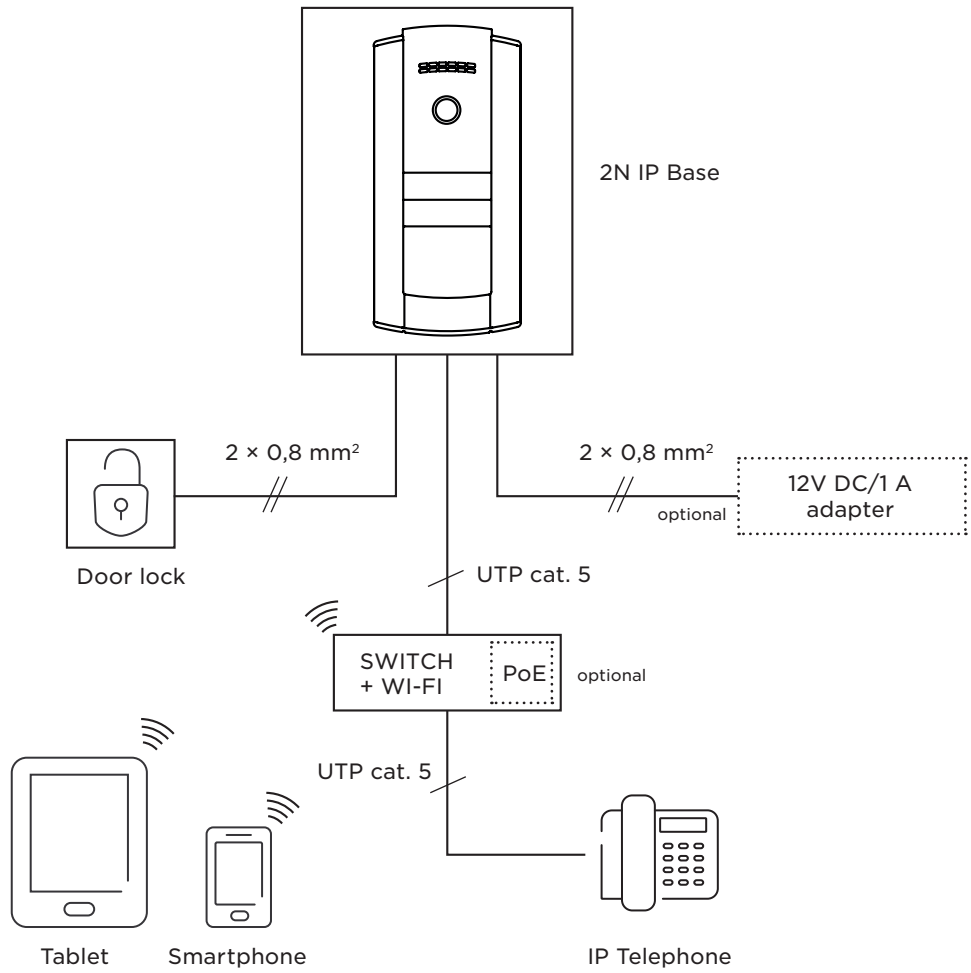
Interfaces

Power supply	12V ± 15%/ 2A DC, or PoE
PoE	PoE 802.3af (Class 0 - 12.95W)
Connector for expansion module	RFID reader
IN1 input terminal	passive/active mode (-30V to +30V DC) OFF = open contact or UIN > 1.5V ON = closed contact or UIN < 1.5V
Relay output	30V/1A AC/DC, output NO/NC
Active switch output	8 to 12V DC depending on Power supply (PoE: 10V; adapter: source voltage minus 2V), max 400mA
Tamper switch	yes, inbuilt
Input for external power supply	12V/2A DC
Supported protocols	SIP2.0, DHCP opt. 66, ONVIF, SMTP, 802.1x, RTSP, RTP, TFTP, HTTP, HTTPS, Syslog

Mechanical properties

Weight	max. 1000g
Operating temperature	-40°C – 55°C
Storing temperature	-40°C – 70°C
Operating relative humidity	10%-95% (non-condensing)
Dimensions	229 × 109 × 31mm
Coverage level	IP65, IK7

Connection diagram



Order numbers



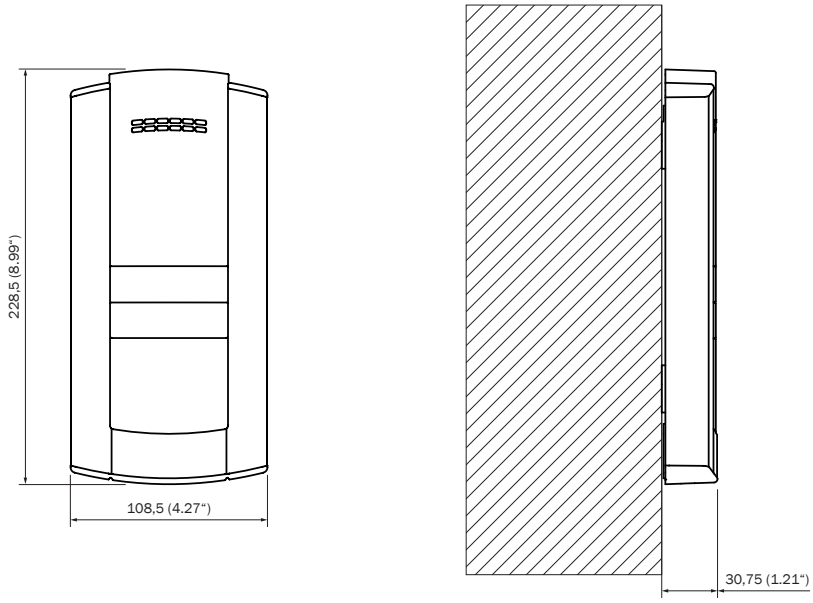
Order No.	9156111CB
Name	2N IP Base, with frame
Desc.	main unit with black frame, HD camera



Order No.	9156020
Name	2N IP Base, backplate
Desc.	backplate for easier surface installation

Installation options

Wall-mounted



2N IP Uni

Great value for money

The 2N IP Uni is an easy-to-install, affordable intercom that meets all basic communication needs. It’s perfect for offering assistance in busy enviroments.




EXIT


Infopoint
SOS
2N

2N IP Uni



cisco NEC Genetec Wildix Alcatel·Lucent 3CX AVAYA webex by cisco

Key features

- Stainless steel front plate
- Visual status signalling
- Built-in tamper switch
- Easy installation

Recommended uses

As an info point for public spaces

Have you ever gotten lost in a hospital, large office complex, or foreign city, and couldn't find assistance? The 2N IP Uni would've helped you! At the press of a button users connect with the information center and the problem is soon resolved.

As an info point for retail buildings

It often happens that a customer needs help or advice about a particular product while shopping, or just wants some guidance around the department store they're in. They can use the info point button for immediate connection to the assistance desk.



Technical parameters

2N IP Uni

Signalling protocol

SIP 2.0 (RFC - 3261)

Buttons

Design	fully illuminated
Number of buttons	1 or 2

Audio

Microphone	1 built-in microphone
Speaker	1W
Sound pressure at 1kHz at 1m distance	77.5dB
Codecs	G.711

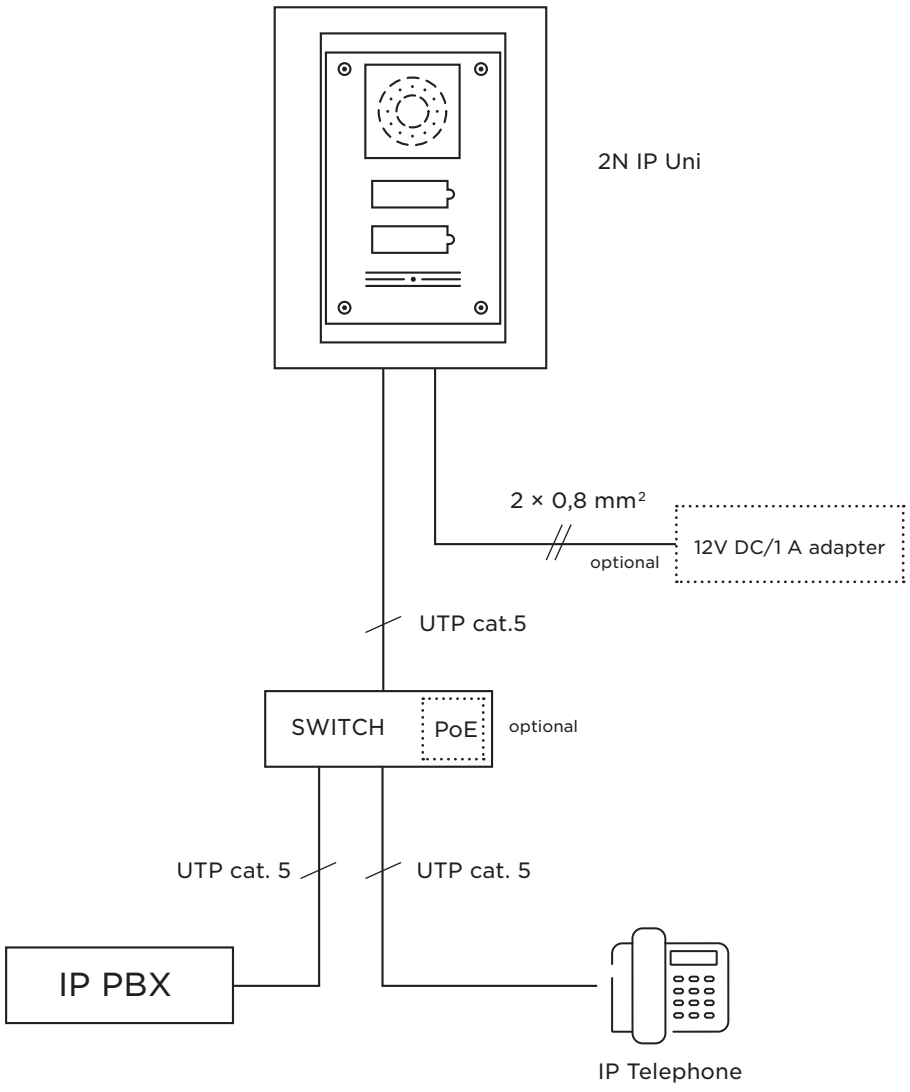
Interfaces

Power supply	12V ± 15%/2A DC, or PoE
PoE	PoE 802.3af (class 0-12.95W)
LAN	RJ-45, 10/100BASE-TX with Auto-MDIX
Passive switch	NC/NO contacts, max 30V/1A AC/DC
Active output	8 to 12V DC depending on Power supply (PoE: 9V; adapter: source voltage – 2V), max 500mA
Tamper switch	yes, inbuilt
Supported protocols	SIP2.0, RTP, HTTP, HTTPS, Syslog

Mechanical properties

Operating temperature	-40 °C – 55 °C
Storage temperature	-40 °C – 70 °C
Storage relative humidity	10%-95% (non-condensing)
Coverage level	IP54, IK10
Dimensions	193x115x57 mm (max)

Connection diagram



Order numbers



Order No.	9153101
Name	2N IP Uni, 1 button
Desc.	1 quick dial button



Order No.	9153102
Name	2N IP Uni, 2 button
Desc.	2 quick dial buttons

Mounting



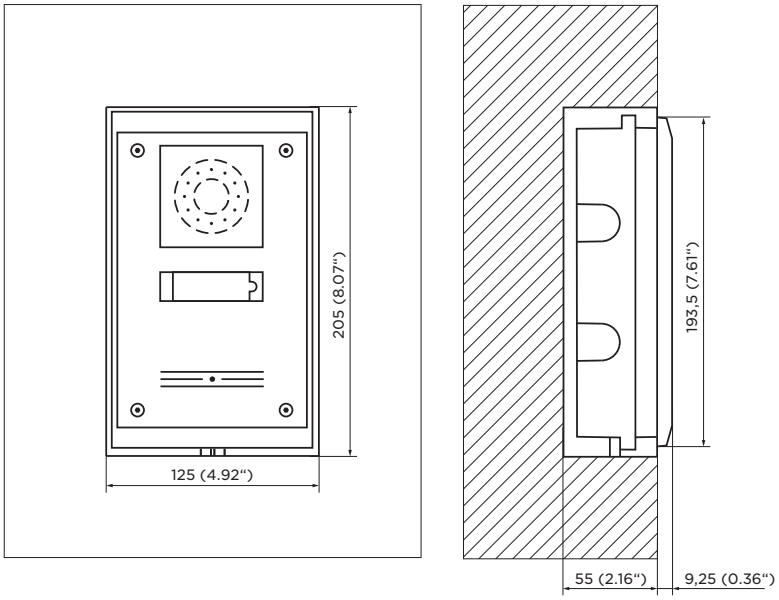
Order No.	9153101P
Name	2N IP Uni, 1 button, pictograms
Desc.	1 button, visual status signalling



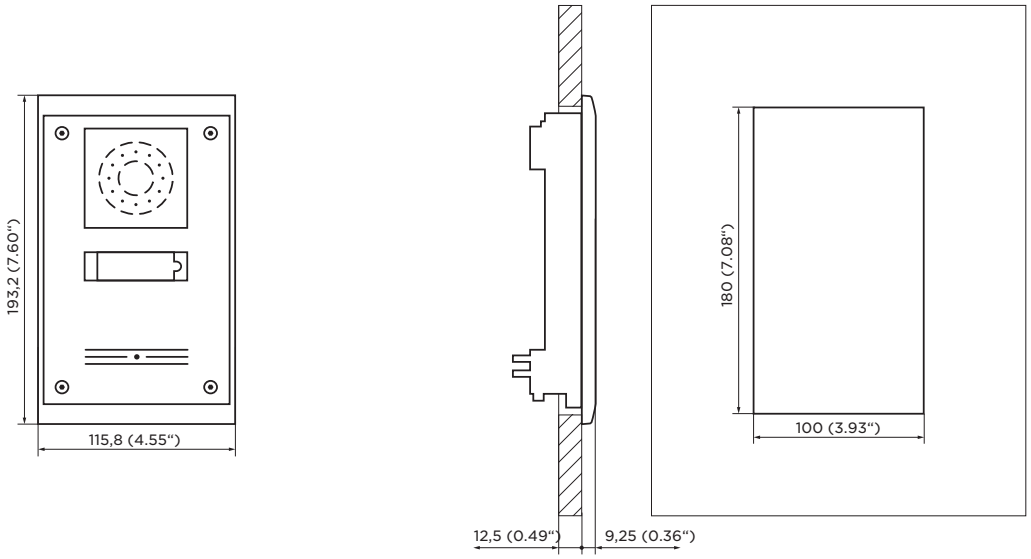
Order No.	9153003
Name	2N IP Uni, surface mount box
Desc.	box for wall mounting

Dimensions and fitting

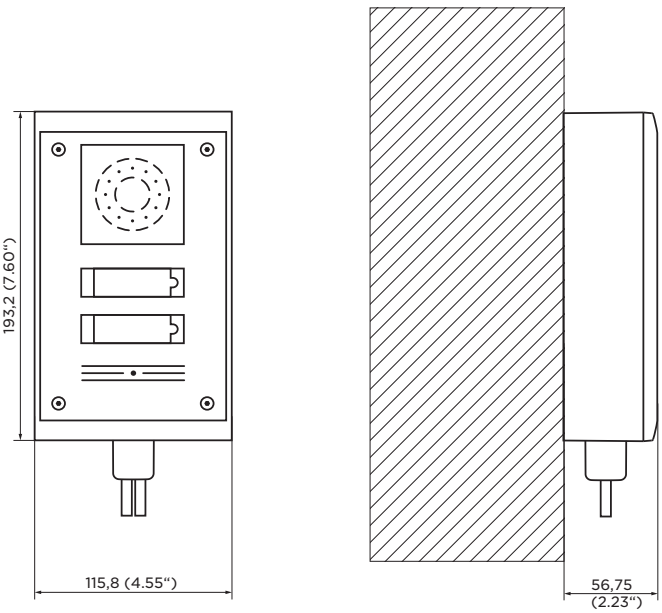
Flush-mounted with box



Mounting in plasterboard



Wall-mounted

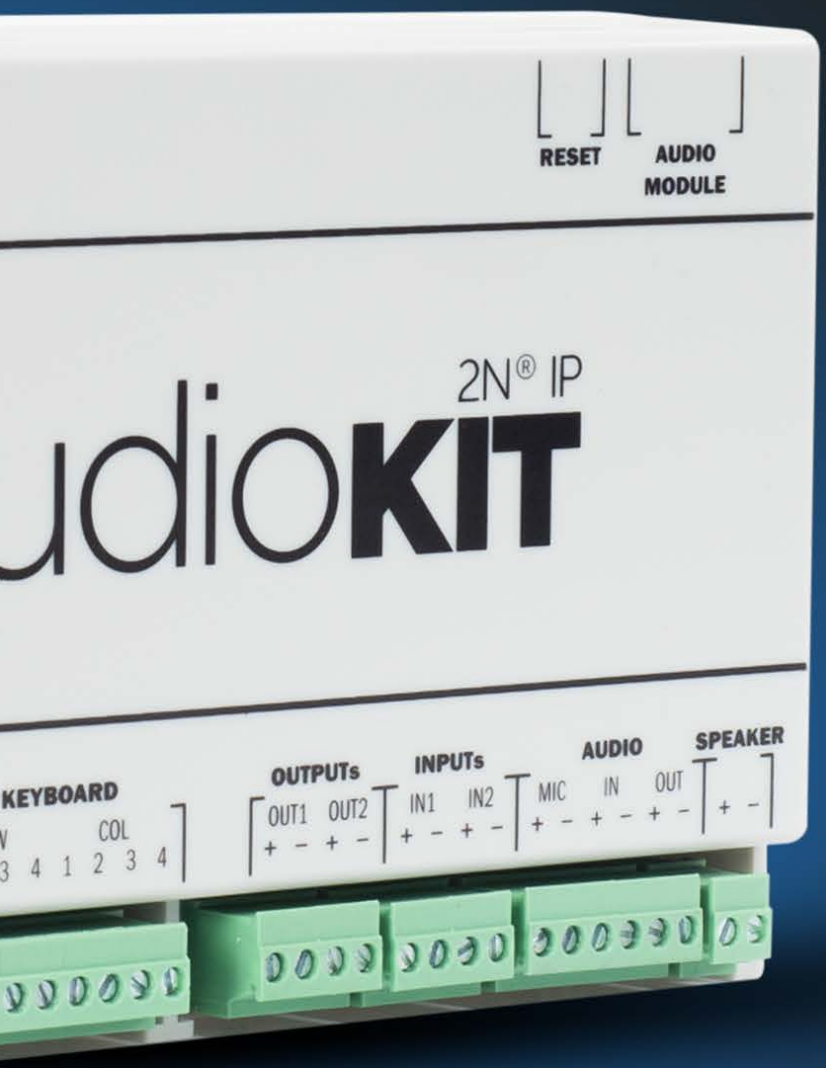


2N IP Audio Kit



Create your own IP intercom

This OEM IP intercom is intended for incorporation into a variety of devices. It offers remote control, monitoring, and audio communication. Benefit from live support at the push of a button.


RESET
AUDIO
MODULE
2N® IP
udioKIT
KEYBOARD
COL
3 4 1 2 3 4
OUTPUTs
OUT1 OUT2
+ − + −
INPUTs
IN1 IN2
+ − + −
AUDIO
MIC IN OUT
+ − + − + −
SPEAKER
+ −

2N IP Audio Kit

Key features

VoIP solution you don’t have to develop

This OEM intercom is easily incorporated. The IP technology allows you to simply extend your device to include high-quality IP audio.

Wide range of connectors

Choose from a wide range of interfaces. Hook up a microphone, speakers, headphones, or keypad buttons.

SIP support, with no server needed

The intercom can easily link with IP phones and PBX from other producers, without having to connect to the server.

Remote administration and control

The HTTP API allows this OEM intercom system to be easily integrated into the master system for remote administration. Alternatively, save time and money on on-site support with the free 2N Remote Configuration service. Access all your devices remotely via a secured cloud.

Adaptive volume

The 2N IP Audio Kit automatically adjusts speakervolume based on ambient noise level.

Order numbers



Order No.	9154100
Name	2N IP Audio Kit
Desc.	OEM IP Intercom, audio addition

Technical parameters

Signalling protocol

SIP 2.0 (UDP)

Audio stream

RTP/RTSP Protocols	
G.711 Codecs	
Volume control	adjustable, with auto adaptive mode
Full duplex	Yes (AEC)

Power supply

From an external source	Typically 12V DC (9-26V DC), max. 2A
PoE	802.3af (Class 0 – Max. 12.95W)

LAN interface

LAN interfaces available	1
PoE	802.3af
Parameters	10/100BASE-TX with Auto-MDIX, RJ-45
Recommended wiring	Cat-5e or better
Supported protocols	SIP2.0, DHCP opt. 66, SMTP, 802.1x, RTSP, RTP, TFTP, HTTP, HTTPS, Syslog

Audio interface

Microphone input	Basic electric microphone
Amplifier output	Amplifier class D, output MONO, THD < 1% Max. 10W/4Ω Max. 5W/8Ω Max. 2.5W/16Ω
Line output	600Ω

Buttons/keypad interface

Number of buttons	Up to 16 independent buttons in a 4 x 4 matrix
Matrix outputs	4 (ROW1-4 connectors), Uout<0,1V (L), Uout>3,2V (H), max. 8mA
Matrix inputs	4 (COL1-4 connectors), Uin< 1,15 (L), Uin> 2,15V, max. Uin = 5V

LED indicator outputs

Number of outputs	3 (LED1+-, LED2+- and LED3+- connectors)
Output current	Typically 20mA
Output voltage	Max. 12V (note. 1)

Digital outputs

Number of outputs	2 (OUT1+- and OUT2+- connectors)
Type of outputs	Power output with short circuit protection
Output voltage	12V (note. 1)
Active switch output	7 to 11V DC depending on Power supply (PoE: 10V; adapter: source voltage minus 2V, max. 11V DC), max 400mA

Logical inputs

Number of inputs	2 (IN1+- and IN2+- connectors)
Input type	Galvanically isolated inputs (opto-couplers)
Characteristics	Uin < 1,1V (L), Uin > 3V (H), max. Uin = 32V

Relay output

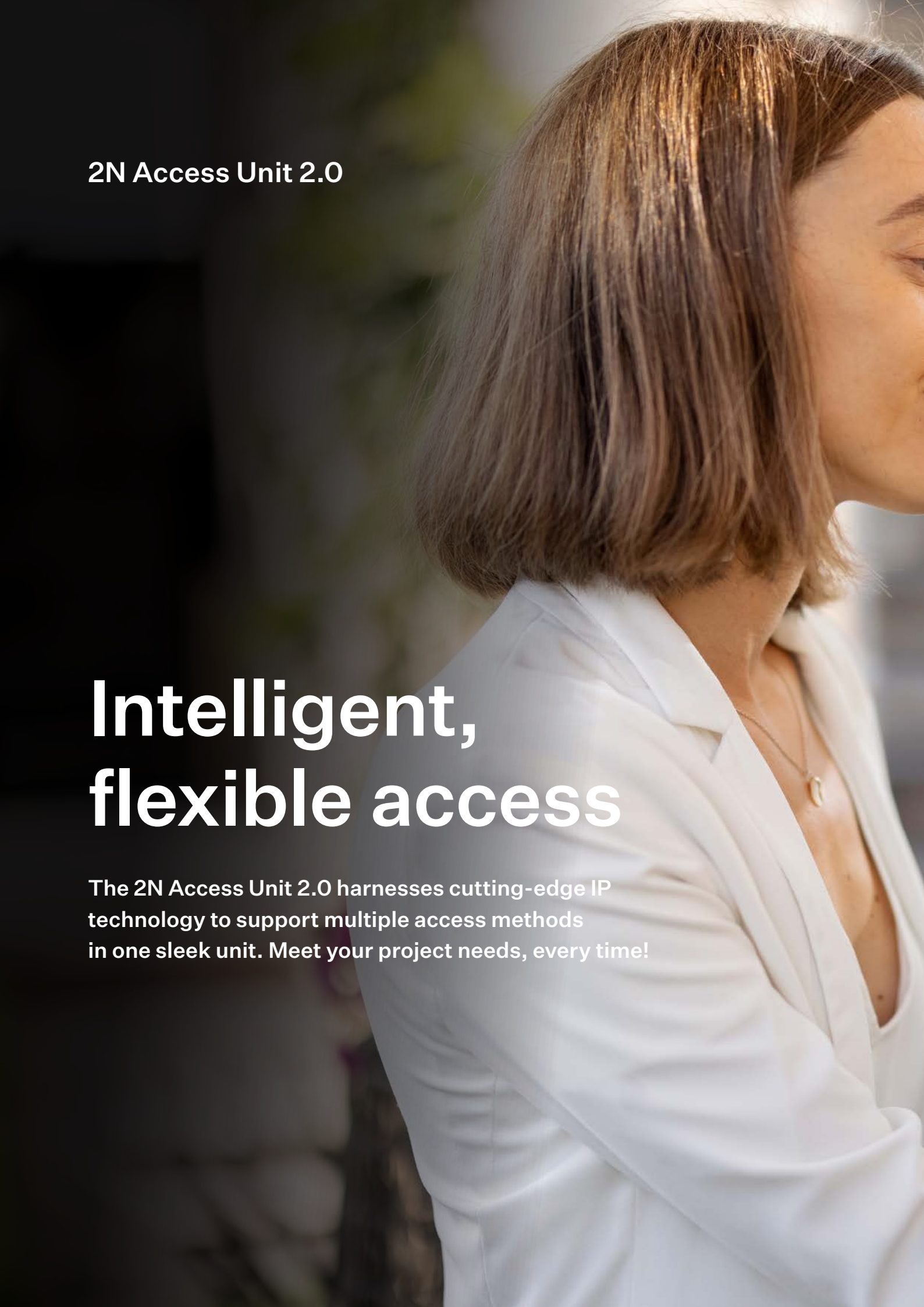
Number of outputs	1 (NC, NO, COM connectors)
Limiting parameters	(DC) Max. 30VDC/1A
Limiting parameters	(AC) Max. 125VAC/0.3A

Mechanical properties

Operating temperature	-40°C – 55°C
Operating relative humidity	10%-95% (non-condensing)
Storage temperature	-40°C – 70°C
Dimensions	142 x 98 x 34mm
Weight	max. 280g
Ingress Protection	IP20
Mounting	on wall, or DIN rail

Note 1: If the device is supplied connected to a DC voltage source and the power supply voltage is below 12V, then the output voltage is limited to the value of the supply voltage.

2N Access Unit 2.0



Intelligent, flexible access

The 2N Access Unit 2.0 harnesses cutting-edge IP technology to support multiple access methods in one sleek unit. Meet your project needs, every time!


40
1 2 3
4 5 6
8 9
0

2N Access Unit 2.0



Key features

- Controller and reader in one
- Single cable installation
- Wide variety of access technologies
- Remote configuration and management

Recommended uses

Common spaces in a modern home environment

In modern residential buildings, mobile phones often control home automation functions. The 2N Access Unit 2.0 can create a cohesive mobile experience by allowing residents to use their phones to access common areas, too. Offer a combination of RFID cards and/or PIN codes to guests, personnel, or residents who simply prefer the classics.

For a frictionless visitor experience

Whether it's a one-time entry or limited-time access, QR codes are the best credentials for guests to increase their convenience. Receptionists email them a QR code in advance and they simply use to authorise themselves at the 2N Access Unit QR.

For areas needing high security

Offer dual-factor authentication in places where a higher level of security is needed (such as banks, labs, warehouses or stores) The 2N Access Unit 2.0 combines a card reader and keypad in one compact unit - allowing users to validate entry once by swiping their RFID card, and again by entering a PIN code.



Technical parameters

2N Access Unit 2.0

Power supply

Type	PoE and/or 12 V/1 A DC
PoE	802.3af (Class 0–12.95 W)

Interfaces

LAN	10/100BASE-TX with Auto-MDIX, RJ-45 jack
Recommended cabling	Cat-5e or better
Active switch output	8 to 12 V DC/max 600 mA
Passive switch	NO/NC contacts, up to 30 V/1 A AC/DC
Inputs	2 inputs - in passive/active mode (-30 V to +30 V DC)
	OFF = open or Uin> 1.5 V
	ON = short-circuit or Uin< 1.5 V
Tamper switch	native part of the 2N Access Unit 2.0
OSDP/Wiegand	optional (as an additional module)
Audio	buzzer (97dBA)
Supported protocols	DHCP opt. 66, SMTP, TFTP, HTTP, HTTPS, Syslog

Bluetooth Reader

Version	compatible with Bluetooth 5.0 (BLE)
Range	(short - typically up to 3m*, long - typically up to 10m*)
	*distances should serve only as an approximate guide and may vary depending on the phone model and installation environment
Security	RSA-1024 and AES-128 encryption
RX sensitivity	up to -93 dBm
Mode	touch, tap in app, card

Mobile Application Support

Android 6.0 and higher, iOS 12.0 and higher

RFID Card Reader

Supported frequencies	125 kHz variant
	13.56 MHz variant
	125 kHz and 13.56 MHz variant
Supported card types	card type compatibility depends on Order No.
125 kHz	EM4xxx
	HID Prox – versions with 125 kHz support and S in Order No. only
13.56 MHz	ISO14443A, PicoPass (HID iClass), FeliCa, ST SR(IX), NFC
	reads UID (CSN) and secured MIFARE DESFire EV2/EV3 cards using 2N PICard technology
Secured 13.56 MHz	ISO14443A (MIFARE DESFire), PicoPass (HID iClass), FeliCa, ST SR(IX), NFC, HID SE (Seos, iClass, MIFARE SE)
	reads secured MIFARE DESFire EV2/ EV3 cards using 2N PICard technology
	reads PACs ID (HID iClass SEOS cards)

QR Code Reader

Type	static QR containing 4-15 digits (decimal, hexadecimal characters)
Versions	1 - 40 (all the versions supported)
Others	QR code can be coloured and can contain an image

Touch Keypad

Technology	capacitive touch layer (sensitivity 0,1 pF)
Reliability	regular automatic calibration (SmartSence Auto-tunning)
	does not detect false touches on wet surface
Signalling	configurable backlight intensity
	indication using multicoloured LEDs
	acoustic response for every keypad touch

Fingerprint Reader

Sensor	optical sensor protected by resistant glass
Reliability	algorithm for fake fingerprint detection
Resistance	resistant to water and dust
Signalling	acoustic and multicoloured LEDs
Sensing area	large with dimensions of 15.24 x 20.32 mm
Certification	certified according to FBI standard

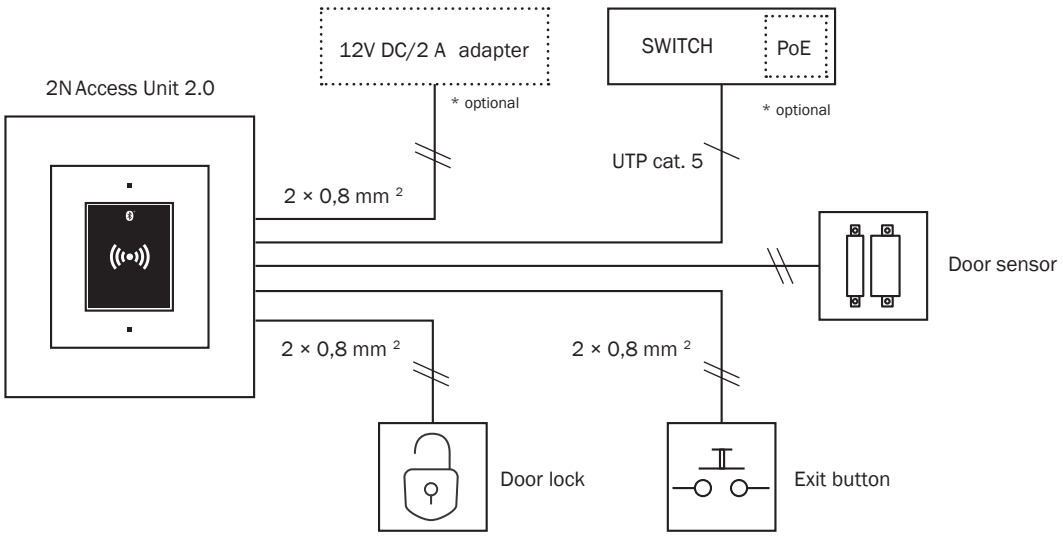
Mechanical Properties

Frame	robust zinc cast frame with surface finish (nickel and black color)
Operating temperature	-40°C to +60°C (2N Access Unit 2.0 Fingerprint Reader -20°C to +55°C)
Storage temperature	-40°C to +70°C
Operating relative humidity	10%-95% (non-condensing)
Dimensions	Wall (surface) mounting frame: 1 module: 107 (W) x 130 (H) x 28 (D) mm 2 modules Flush mounting frame: 1 module: 130 (W) x 153 (H) x 5 (D) mm Flush mounting box (minimum hole): 1 module: 108 (W) x 131 (H) x 45 (D) mm
Weight	max 0.8 kg
Cover rating	IP54 and IK08

Extension Modules

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

Connection diagram



Order numbers



Order No.	9160347
Name	2N Access Unit 2.0 Touch keypad, Bluetooth & RFID
Desc.	125kHz, 13.56MHz, NFC, WaveKey



Order No.	9160347-S
Name	2N Access Unit 2.0 Touch keypad, Bluetooth & RFID
Desc.	125kHz, secured 13.56MHz (reads HID Prox and SEOS), NFC, WaveKey



Order No.	9160346
Name	2N Access Unit 2.0 Touch Keypad & RFID
Desc.	125kHz, 13.56MHz, NFC



Order No.	9160346-S
Name	2N Access Unit 2.0 Touch Keypad & RFID
Desc.	125kHz, secured 13.56MHz (reads HID Prox and SEOS), NFC



Order No.	9160345
Name	2N Access Unit 2.0 Bluetooth & RFID
Desc.	125kHz, 13.56MHz, NFC, WaveKey



Order No.	9160345-S
Name	2N Access Unit 2.0 Bluetooth & RFID
Desc.	125kHz, secured 13.56MHz (reads HID Prox and SEOS), NFC, WaveKey



Order No.	9160344
Name	2N Access Unit 2.0 RFID
Desc.	125kHz, 13.56MHz, NFC



Order No.	9160344-S
Name	2N Access Unit 2.0 RFID
Desc.	125kHz, secured 13.56MHz (reads HID Prox and SEOS), NFC



Order No.	9160342
Name	2N Access Unit 2.0 RFID
Desc.	13.56MHz, NFC



Order No.	9160342-S
Name	2N Access Unit 2.0 RFID
Desc.	secured 13.56MHz (reads HID SEOS), NFC



Order No.	9160341
Name	2N Access Unit 2.0 RFID
Desc.	125kHz



Order No.	9160341US
Name	2N Access Unit 2.0 RFID
Desc.	125kHz, reads HID Prox



Order No.	916032
Name	2N Access Unit 2.0 Touch Keypad
Desc.	capacitive touch technology, regular automatic calibration, backlit symbols



Order No.	916031
Name	2N Access Unit 2.0 Fingerprint Reader
Desc.	optical technology, acoustic and visual signalling, weatherproof



Order No.	916201
Name	2N Access Unit QR
Desc.	static QR containing 4-15 digits (decimal, hexadecimal)

Accessories



Order No.	9155011/ 9155011B
Name	1 module flush frame nickel/ black
Desc.	frame for installation in the wall, in nickel or black colour



Order No.	9155021/ 9155021B
Name	1 module surface frame nickel/ black
Desc.	frame for installation on the surface, in nickel or black colour



Order No.	9155012
Name	2 module flush frame nickel
Desc.	frame for installation in the wall, 2 modules



Order No.	9155022
Name	2 module surface frame nickel
Desc.	frame for installation on the surface, 2 modules



Order No.	9155014
Name	1 module flush box
Desc.	box for installation in the wall



Order No.	9155015
Name	2 modules flush box
Desc.	box for installation in the wall, 2 modules



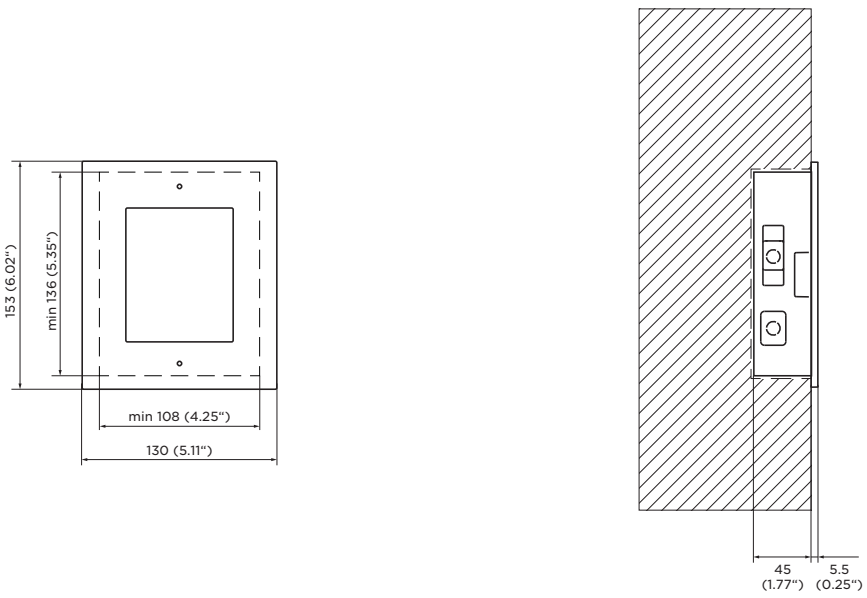
Order No.	9155061
Name	1 module backplate
Desc.	backplate for surface installation, 1 module

Installation options

Wall-mounted 1 module



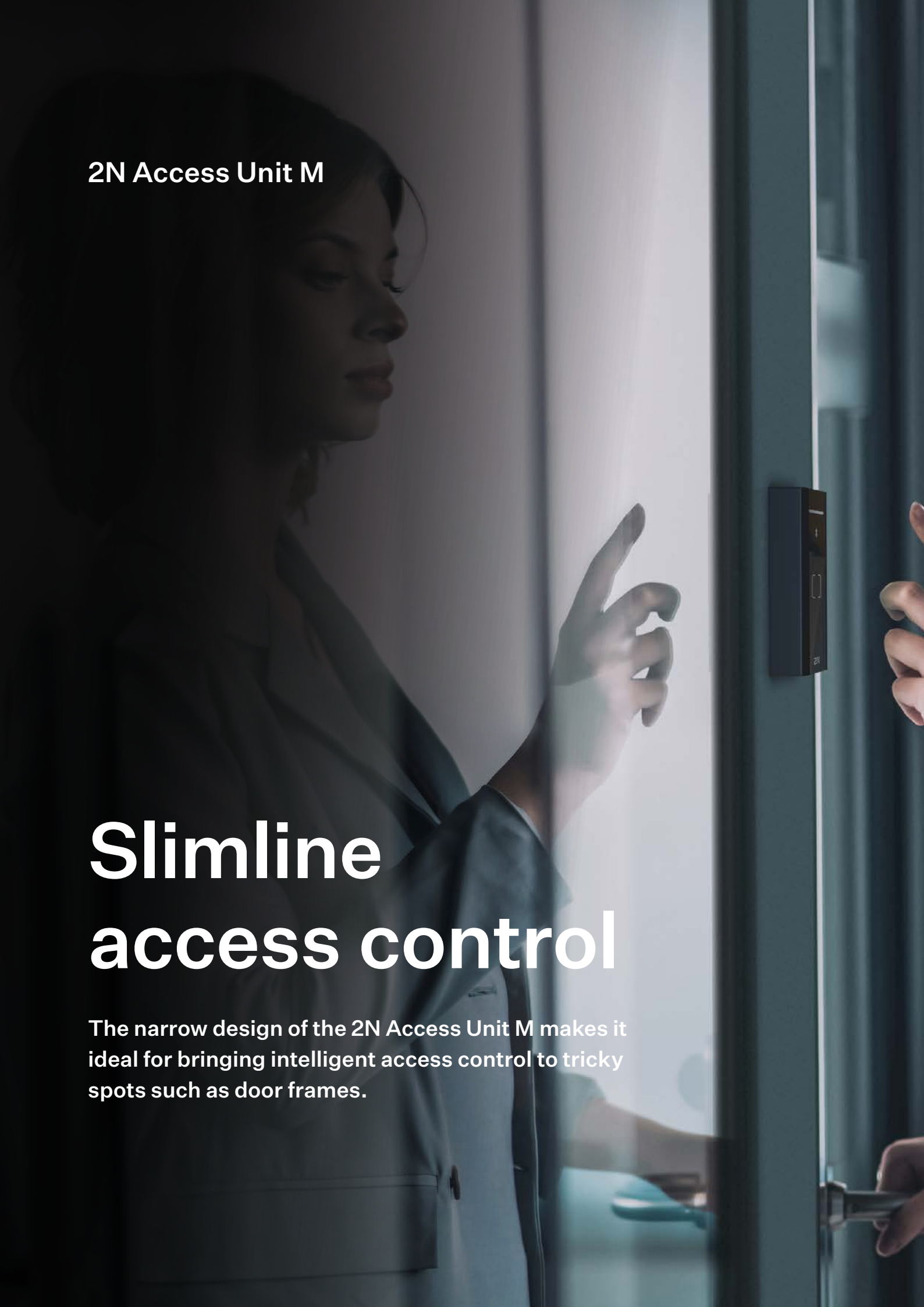
In-wall 1 module



2N Access Unit M

Slimline access control

The narrow design of the 2N Access Unit M makes it ideal for bringing intelligent access control to tricky spots such as door frames.





2N Access Unit M



Key features

- Based entirely on IP technology
- Mullion-style mounting
- Multi-technology support
- Scratch resistant
- Remote configuration and management

Recommended uses

For high level of protection of server rooms

All servers with sensitive data deserve real protection using flexible physical security. Install the 2N Access Unit M Touch Keypad & RFID to allow employees to identify themselves via RFID, PIN code, or both.

For securing meeting rooms

Got an office project that needs access control on meeting rooms with glazed windows and metal door frames? This can be tricky - but the 2N Access Unit M can be installed easily on metal door frames and facilitates controlled access via RFID cards, as well as cutting-edge mobile access via WaveKey Bluetooth technology.

To create a complete access control solution in offices

The 2N Access Unit M RFID can be connected to an attendance system, creating a comprehensive, effective method of employee identification and tracking. The multi-frequency reader can also be used as a T&A terminal and send data to the centralized 2N Access Commander management system.



Technical parameters

2N Access Unit M

Power supply

Type	PoE and/or 12 V/1 A DC
PoE	802.3af (Class 0–12.95 W)

Interfaces

LAN	10/100 BASE-TX Auto-MDIX, RJ-45 male (2,9m pigtail)
Recommended cabling	Cat-5e or better
Active switch output	8 to 12 V DC/max 600 mA
Passive switch	NO/NC relay, 30V 1A AC/DC
Inputs	2 inputs – in passive / active mode (-30 VDC to + 30 VDC)
	OFF = OPEN or Uin > 1.5 V
	ON = CLOSED or Uin < 1.5 V
Tamper switch	native part of the 2N Access Unit M
Audio	buzzer, 1 W/8ohm
Supported protocols	DHCP opt. 66, SMTP, TFTP, HTTP, HTTPS, Syslog

Bluetooth Reader

Version	compatible with Bluetooth 5.0 LE
Range	adjustable (short - typically up to 3m*, long - typically up to 10m*)
	*distances should serve only as an approximate guide and may vary depending on the phone model and installation environment
Security	RSA-1024 and AES-128 encryption
RX sensitivity	up to 94.8 dBm
Mode	card, touch, tap in app

Mobile Application Support

Android 6.0 and higher, iOS 12.0 and higher

RFID Card Reader

Supported frequencies	125kHz and 13.56MHz variant
125 kHz	EM4xxx
13.56 MHz	reads UID (CSN): ISO14443A, PicoPass (HID iClass), FeliCa, ST SR(IX), NFC (2N Mobile Key)
	reads secured MIFARE DESFire EV2/ EV3 cards using 2N PICard technology

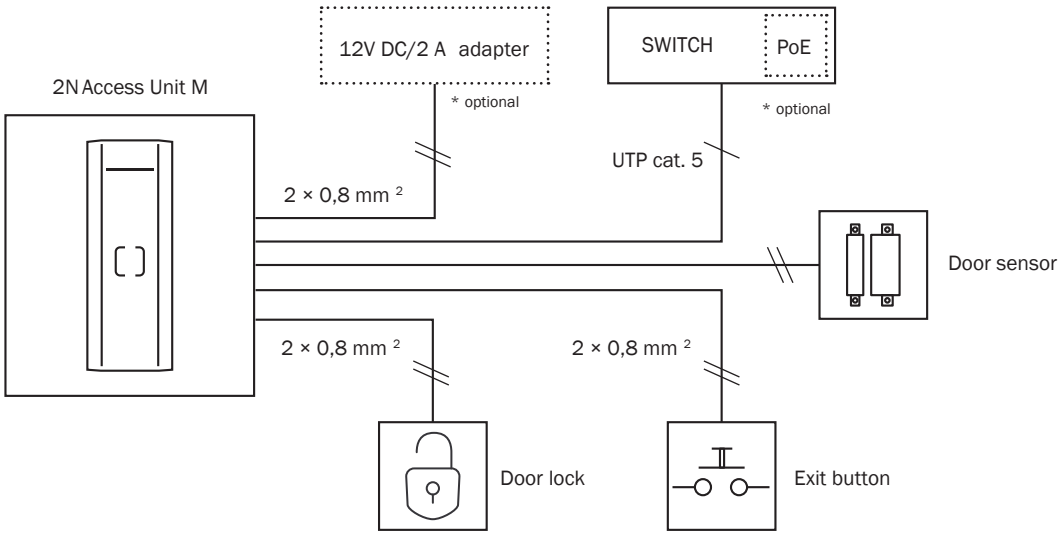
Touch Keypad

Technology	capacitive touch technology
	high touch layer sensitivity (0.1pF)
Reliability	regular automatic calibration (SmartSence Auto-tunning)
	does not detect false touches on wet surface
Signalling	configurable backlight intensity
	indication using multicoloured LEDs
	acoustic response for every keypad touch

Mechanical Properties

Frame	tempered glass with rugged plastic
Operating temperature	-40°C to +60°C
Storage temperature	-40°C to +70°C
Operating relative humidity	10%-95% (non-condensing)
Dimensions	50 (W) x 133 (H) x 27 (D) mm
	Flush installation box:
	40 (W) x 127 (H) x 68 (D) mm
	Surface mount box:
	27 (W) x 134 (H) x 52 (D) mm
Weight	max 0.5 kg
Cover rating	IP55 and IK07

Connection diagram



Order numbers



Order No.	9161121
Name	2N Access Unit M RFID
Desc.	13.56MHz, NFC

Order No.	9161141
Name	2N Access Unit M RFID
Desc.	125 kHZ, 13.56 MHz, NFC



Order No.	9161151
Name	2N Access Unit M Bluetooth & RFID
Desc.	125kHz, 13.56MHz, NFC, WaveKey



Order No.	9161161
Name	2N Access Unit M Touch Keypad & RFID
Desc.	125kHz, 13.56MHz, NFC



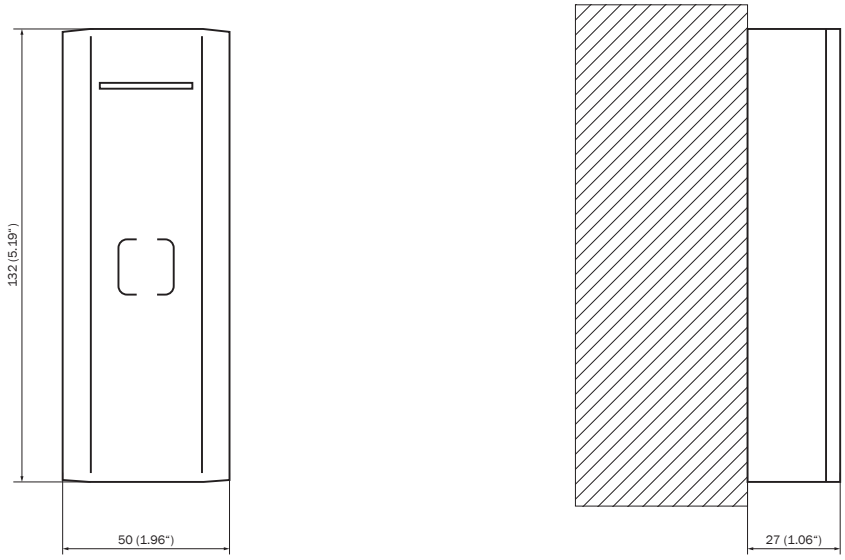
Order No.	916122
Name	Surface installation box
Desc.	Spacer providing a cavity for terminating the cables on the wall



Order No.	916121
Name	Flush installation box
Desc.	cavity for hiding and terminating the cables in the wall

Installation options

Wall-mounted

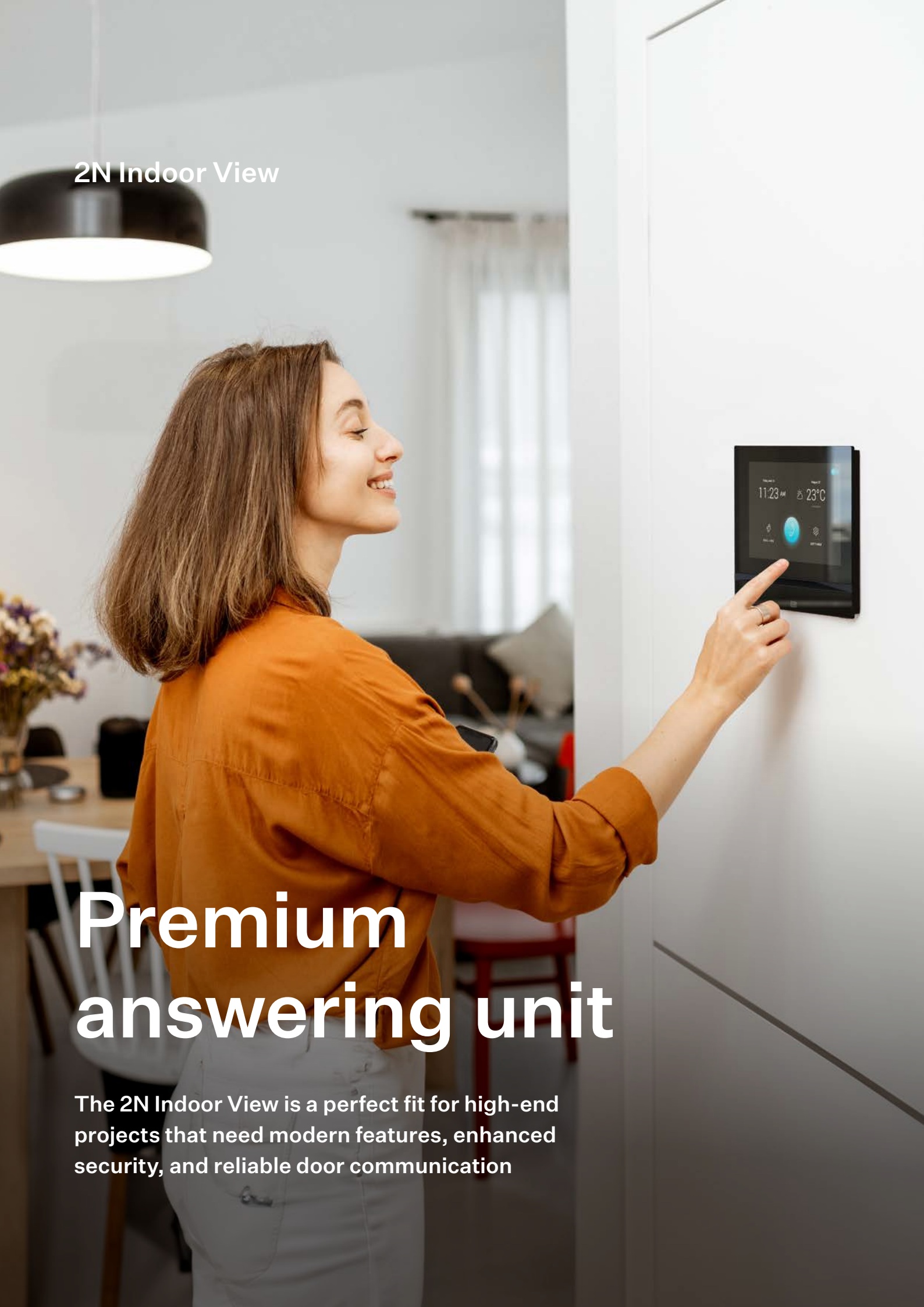




Comparison table

Choose from our portfolio of answering units

Answering Unit	2N Indoor View	2N Indoor Touch 2.0	2N Indoor Compact	2N Clip	2N Indoor Talk
Recommended use	high-end MDU; offices	luxury MDU; smart home; offices	hign-end/mid-range MDU; offices	mid-range MDU	secondary unit; offices
Display	7"	7"	4.3"	4.3"	-
Display resolution (pixels)	1024 x 600	1024 x 600	480 x 272	480 x 272	-
Unit control	capacitive touch display	capacitive touch display	capacitive buttons	capacitive buttons	capacitive buttons
Operation system	2N OS	Android	2N OS	2N OS	2N OS
Integration wiht Home Automation	send up to 3 HTTP commands	via 3rd party apps	send up to 3 HTTP commands	-	-
Video voicemail	✓	✓	-	-	-
Video preview	✓	✓	✓	✓	-
Colour variants	black; white	black; white	black; white	white	black; white
Mounting options	flush; surface; desk stand	surface; desk stand	flush; surface; desk stand	surface; desk stand	flush; desk stand
Dimensions W x H x D (mm)	193 x 157 x 50	235 x 165 x 40	152 x 153 x 50	124 x 150 x 28	185 x 128 x 48.2
POE or 12V power supply	both	both	both	PoE only	both
Integrated speaker	2 W	2 W	2 W	2 W	2 W
Integrated microphone	✓	✓	✓	✓	✓
Digital input (doorbell button)	1	2	1	1	1
Indouction loop support	yes, with external induction loop	-	yes, with external induction loop	yes, with the inbuilt induction loop model	yes, with external induction loop
Digital output; relay	-	2; 2	-	-	-

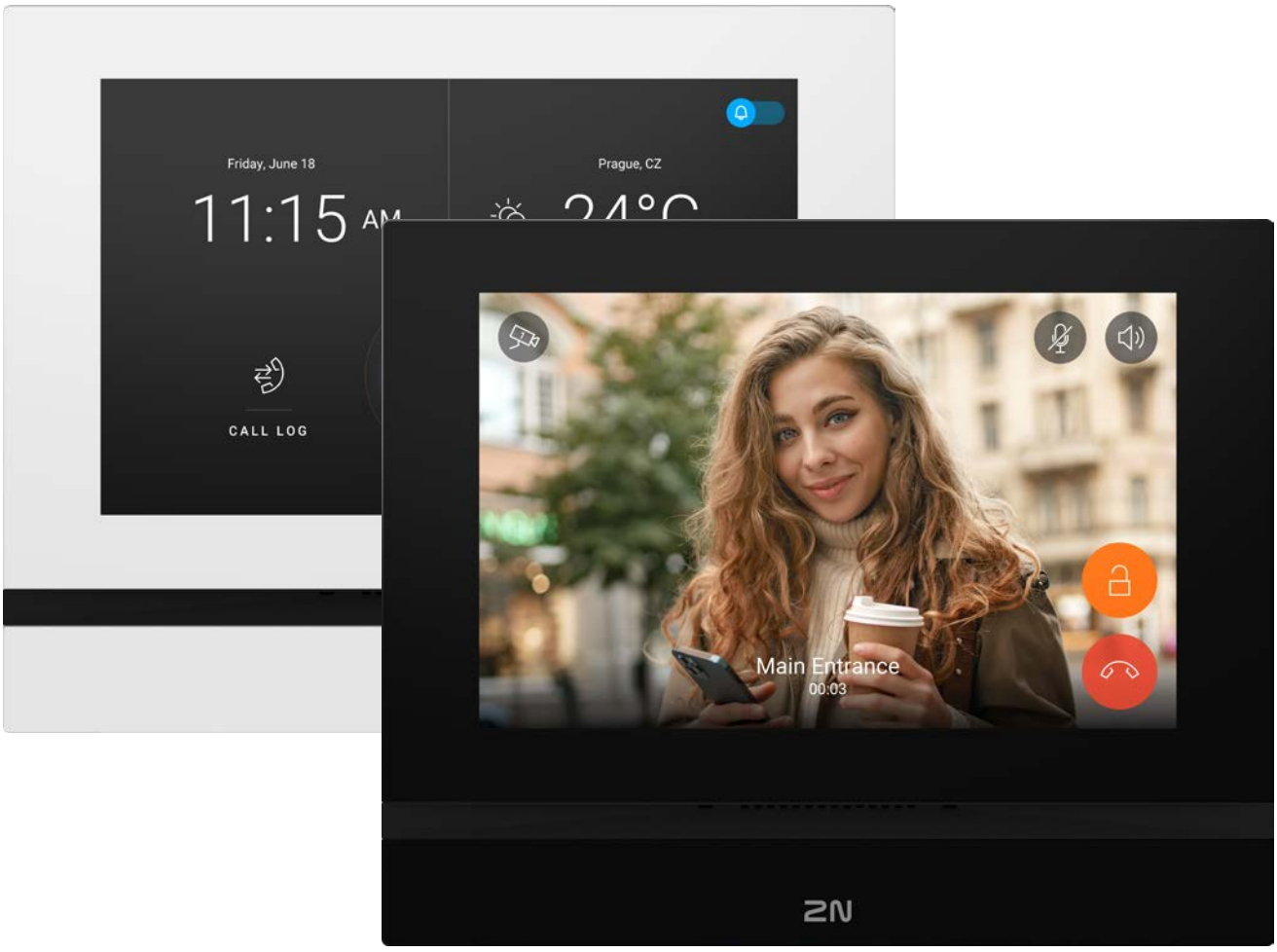


2N Indoor View

Premium answering unit

The 2N Indoor View is a perfect fit for high-end projects that need modern features, enhanced security, and reliable door communication

2N Indoor View



Key features

- 7" touch display with HD resolution
- Support of video surveillance
- Advanced additional features

Recommended uses

To create a safe home environment

Full-screen video calls from selected 2N IP intercoms are a great way to enhance home security as the resident can see who's at their door with absolute clarity. Plus, features such as the ability to stream feeds from up to 16 IP cameras installed around the property go one step further to creating a safe home.

As a stylish control panel

The 2N Indoor View boasts a premium finish - but it's more than just aesthetic. The unit can send up to 3 different HTTP commands for integration with home automation.



Technical parameters

2N Indoor View

Power Supply

Type	12V DC adapter or PoE 802.3af
Recommended power supply	12V/1A
Reverse polarity protection	yes

User Interface

Controls	capacitive touch panel
Display size	7"
Resolution	640x480px 1024x600px

Audio

Microphone	integrated
Speaker	integrated, 2W
Induction loop output	600mV RMS
Codecs	G.711a/u, G.722, G.729, L16/16 kHz

Video

Codecs	H.264

Interface

LAN	10/100BaseT, RJ-45
Recommended cabling	Cat5e or higher

Wi-Fi (optional)

Frequency:	2.4GHz and 5GHz
Standard:	802.11n and 802.11ac
Antenna:	in-built
Important:	Wi-Fi and ethernet cannot be used simultaneously

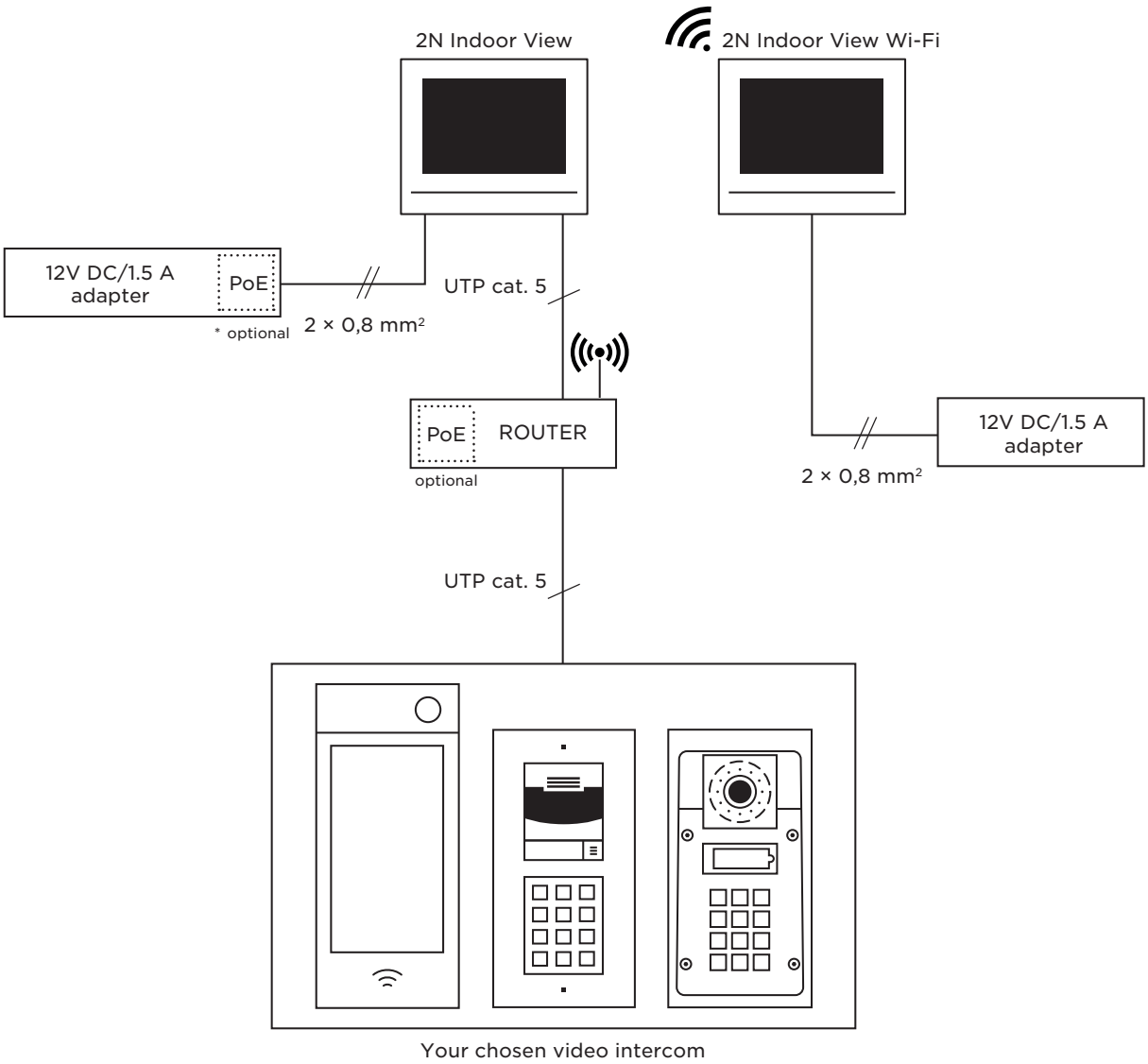
Doorbell Input

Input type	switching contact (button/relay)
Contact type	normally open (NO)
Contact parameters	up to 50V/5mA, DC

Mechanical Parameters

Dimensions (W x H x D)	193x157x50mm
Weight	555g
Operating temperature	0 to 50°C
Relative operating humidity	10 to 90% (non-condensing)
Storage temperature	-20 to 70°C
Recommended altitude	0 to 2000m

Connection diagram



Order numbers



Order No.	91378601
Name	2N Indoor View black
Desc.	7" capacitive touch screen



Order No.	91378601WH
Name	2N Indoor View white
Desc.	7" capacitive touch screen



Order No.	91378611
Name	2N Indoor View Wi-Fi black
Desc.	7" capacitive touch screen, Wi-Fi



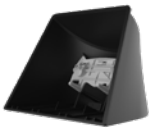
Order No.	91378611WH
Name	2N Indoor View Wi-Fi white
Desc.	7" capacitive touch screen, Wi-Fi



Order No.	91378800
Name	2N Indoor Flush Box
Desc.	box for installation in the wall



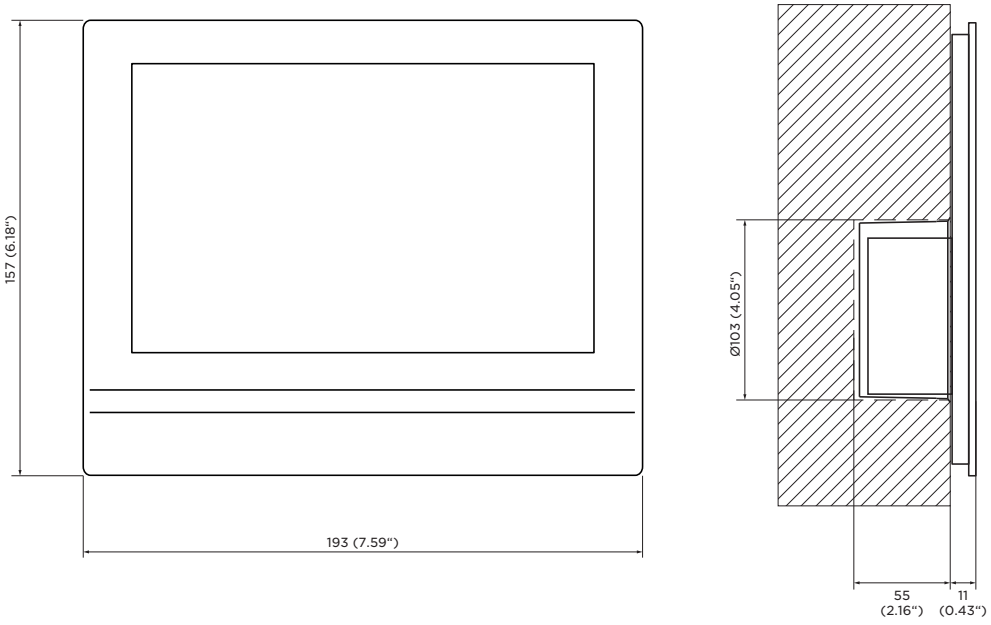
Order No.	91378803
Name	2N Indoor Surface Box
Desc.	surface-mount box for 2N answering units, only in black colour



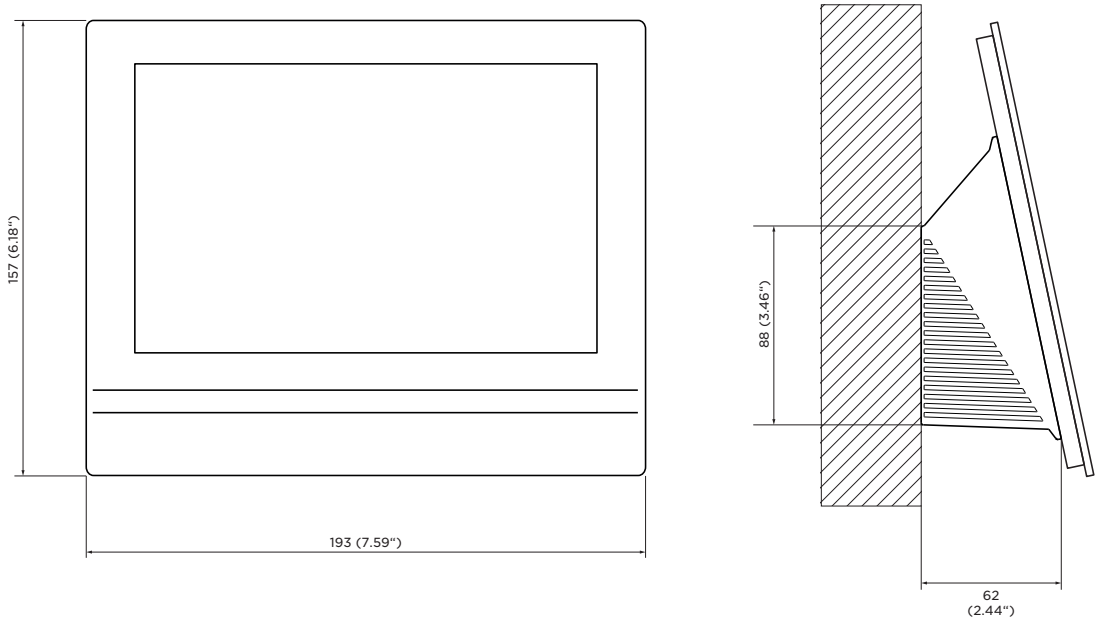
Order No.	91378802
Name	2N Indoor Desk Stand
Desc.	stand for 2N answering units, only in black colour

Dimensions and fitting

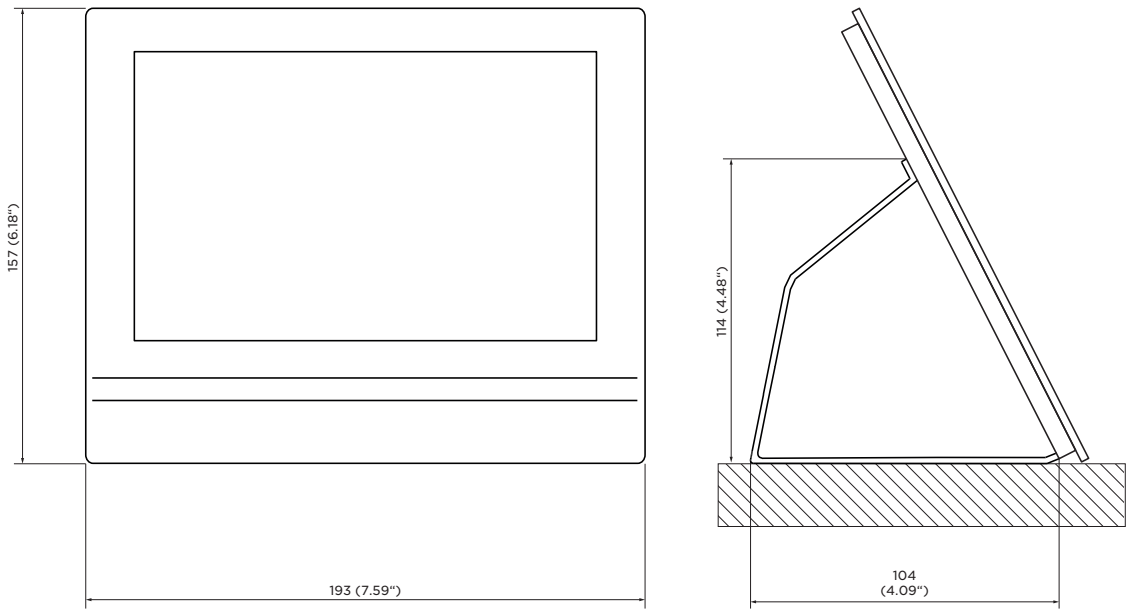
In-wall mounted



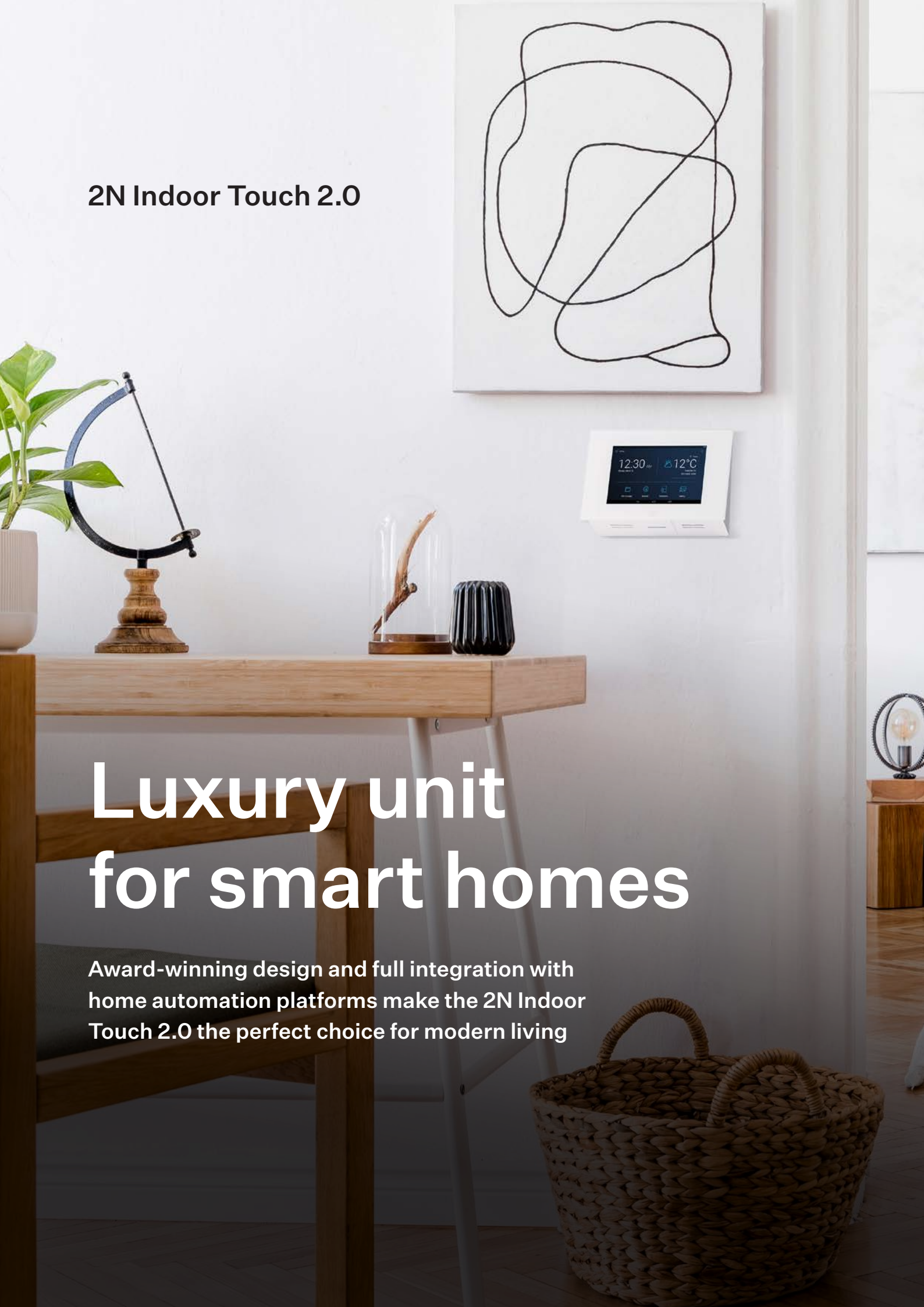
Wall-mounted



Desk stand



2N Indoor Touch 2.0



Luxury unit for smart homes

Award-winning design and full integration with home automation platforms make the 2N Indoor Touch 2.0 the perfect choice for modern living



2N Indoor Touch 2.0



Key features

- Durable 7" HD touchscreen
- Android OS for full integration with home automation
- Modern, award-winning design

Recommended uses

To give residents peace of mind with home monitoring

Not only can residents communicate with visitors in full-screen HD resolution, but they can also use the 2N Indoor Touch to monitor their home surroundings. The device comes with pre-installed camera monitoring apps by Axis, perfect for use with their high-quality IP cameras.

As a control panel for smart homes

Make the 2N Indoor Touch 2.0 the beating heart of a smart home! Thanks to the support of the Android OS you can install a wide range of apps that allow residents to manage air-conditioning, lighting, electronic blinds, music, door control, and more - all from one sleek panel.



Technical parameters

2N Indoor Touch 2.0

Power Supply

Type	12V DC adapter or PoE 802.3af
Recommended power supply	12V/1A
Reverse polarity protection	yes

User Interface

Controls	high-capacity touch screen
Display size	7" colour display
Resolution	1024x600px, 16:9
Backlighting	LED with eco mode
Status indicator	1x RGB LED (missed calls, eco mode, etc.)

Operating System

Android 6.0

Audio

Microphone	integrated
Speaker	integrated, 2W
Codecs	G.711a/u, G.722, G.729

Video

Codecs	H.264

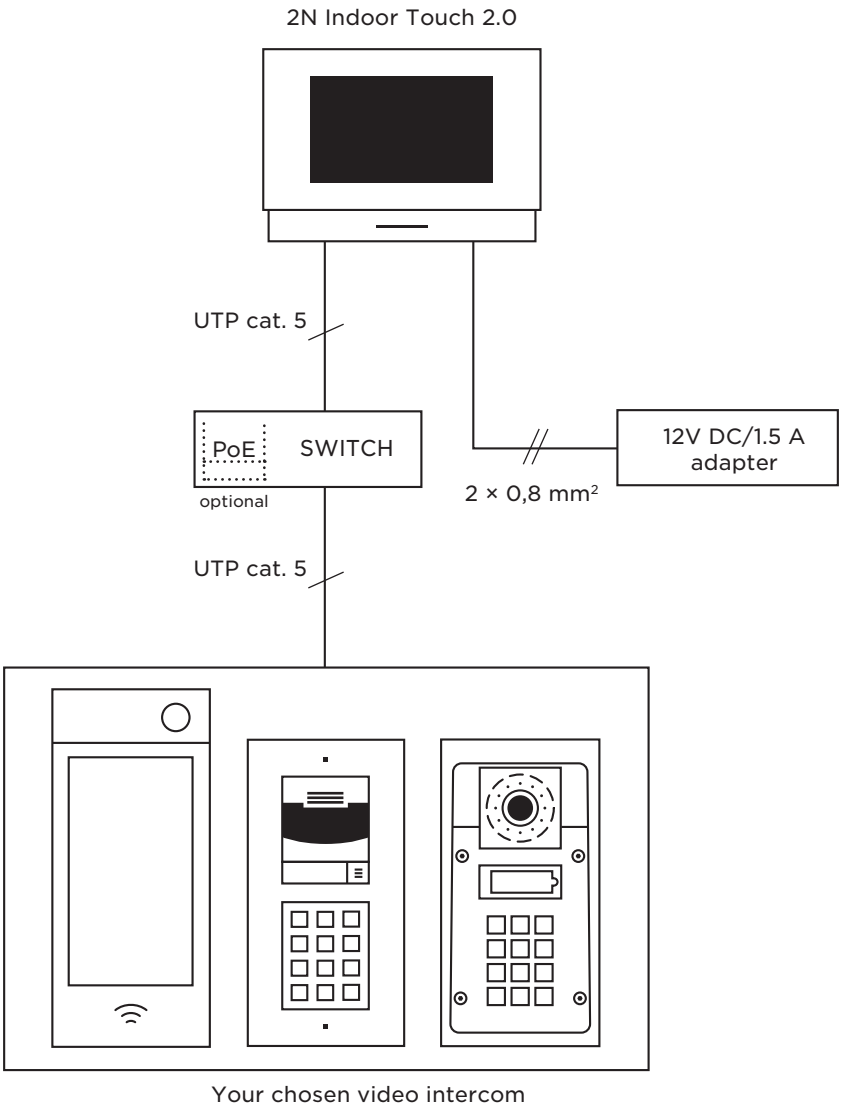
Interface

LAN	10/100BaseT, RJ-45
Recommended cabling	Cat5e or better
2x relay	
2x GPIO (doorbell input, etc.)	
Memory card	microSD card (up to 16GB)

Mechanical Parameters

Dimensions (W x H x D)	235 x 165 x 40mm
Weight	850g
Operating temperature	0°C to 60°C
Relative operating humidity	10% to 90% (non-condensing)
Storage temperature	-20°C to 70°C
Recommended altitude	0 to 2000m

Connection diagram



Order numbers



Order No.	91378375
Name	2N Indoor Touch 2.0, PoE, black
Desc.	7“ touchscreen, 4mm glass, capacitive touch, license for installation of 3rd party applications for Android



Order No.	91378375WH
Name	2N Indoor Touch 2.0, PoE, white
Desc.	7“ touchscreen, 4mm glass, capacitive touch, license for installation of 3rd party applications for Android



Order No.	91378380
Name	2N Indoor Touch 2.0, flush mounted power supply
Desc.	power supply for installation in the wall



Order No.	91378382
Name	2N Indoor Touch 2.0, desk stand black
Desc.	Desk stand black



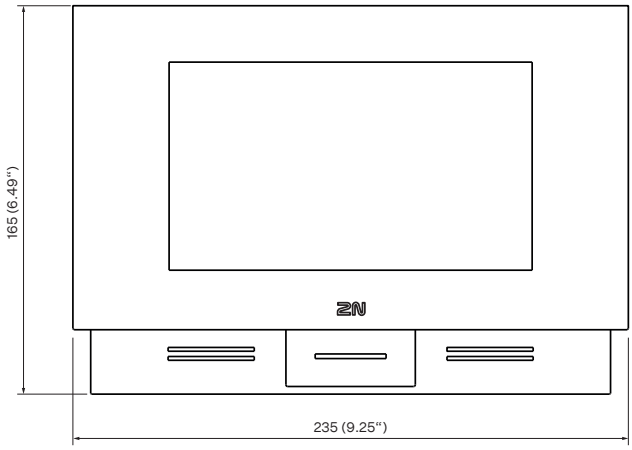
Order No.	91378382W
Name	2N Indoor Touch 2.0, desk stand white
Desc.	Desk stand white

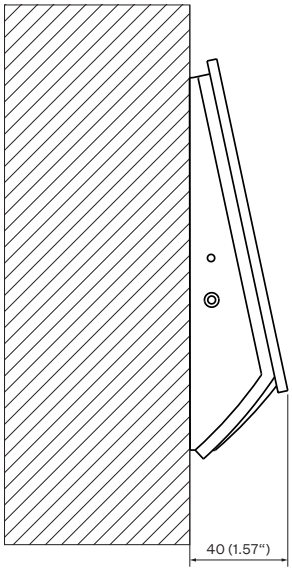


Order No.	91378396
Name	2N Meeting Room
Desc.	SW, overview of scheduled occupancy of meeting rooms

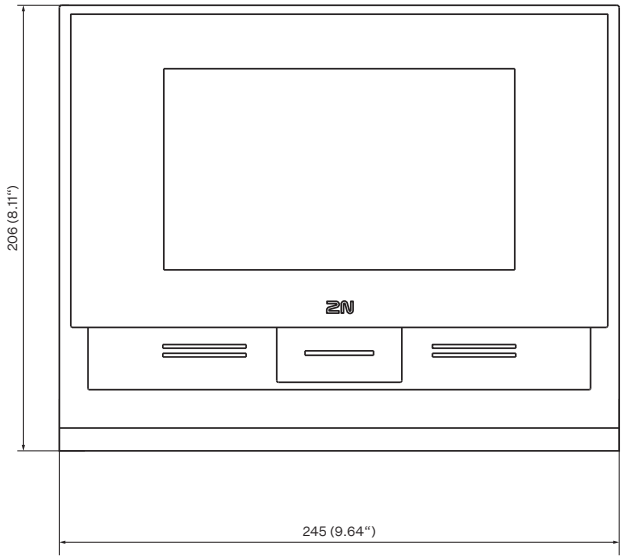
Installation options

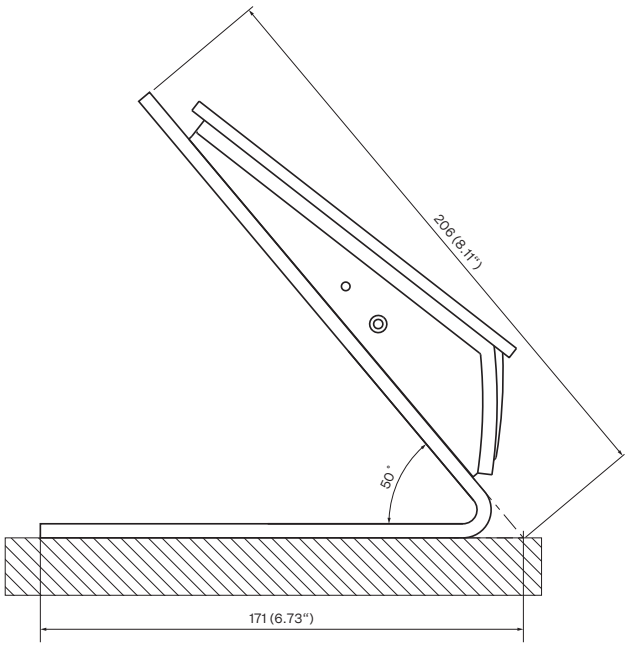
Wall-mounted





Desk stand





2N Indoor Compact

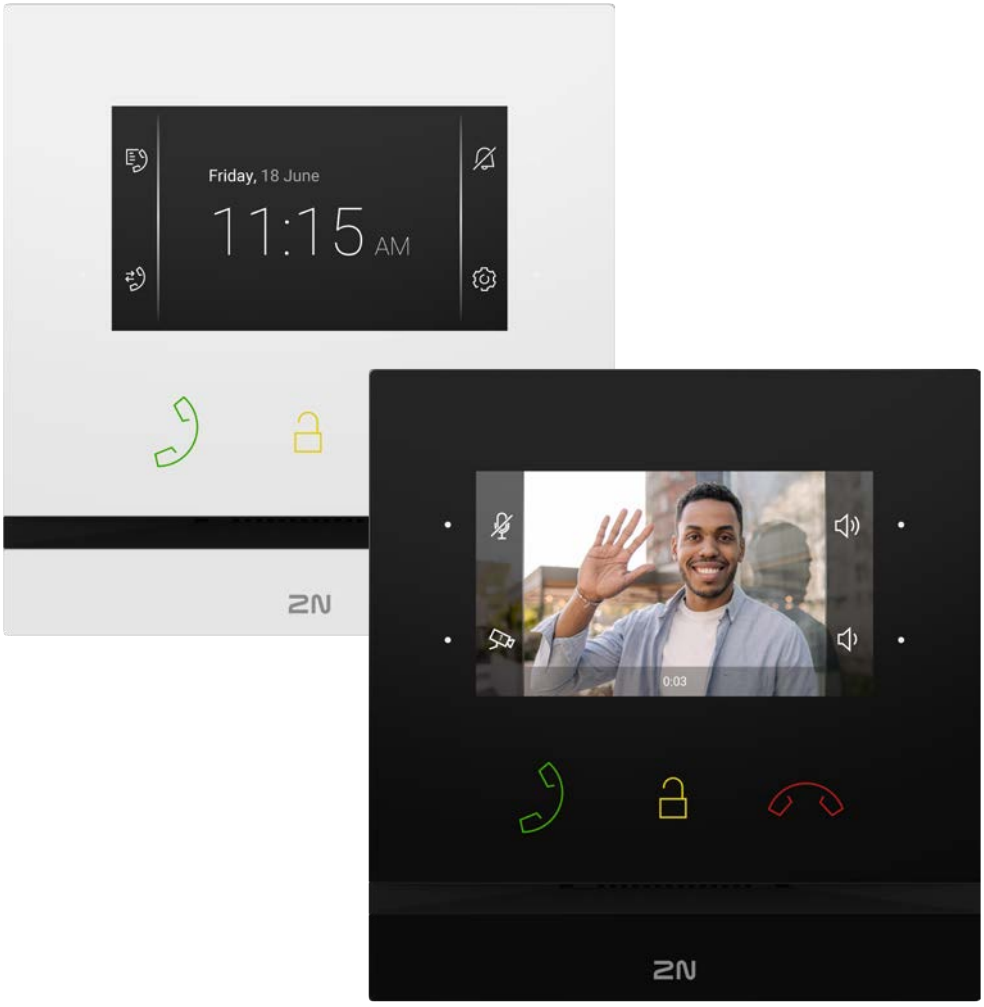
Compact but clever

Offer quality video communication in a neat little unit that’s a piece of cake to use, install, and configure.





2N Indoor Compact



Key features

- 4.3" color display
- Easy to use
- Anti-scratch surface

Recommended uses

For video door communication in apartments

Make answering the door as simple as it should be! Intercom calls are answered at the touch of a button and the visitor is quickly verified via video. If the resident is out, a call log with snapshots of attempted visits is saved in the unit.

To monitor home surroundings

Improve home security with the 2N Indoor Compact. When answering a call, it’s possible to switch from the intercom’s camera stream to the video feed from an external IP camera by the entrance - giving the resident a complete overview of who’s there.



Technical parameters

2N Indoor Compact

Power Supply

Type	12V DC adapter or PoE 802.3af
Recommended power supply	12V/1A
Reverse polarity protection	yes

User Interface

Controls	7 capacitive buttons with RGB LED backlight
Display size	4.3" colour display
Resolution	480x272px

Audio

Microphone	integrated
Speaker	integrated, 2W
Induction loop output	600mV RMS
Codecs	G.711a/u, G.722, G.729, L16/16 kHz

Video

Codecs	H.264

Interface

LAN	10/100BaseT, RJ-45
Recommended cabling	Cat5e or higher

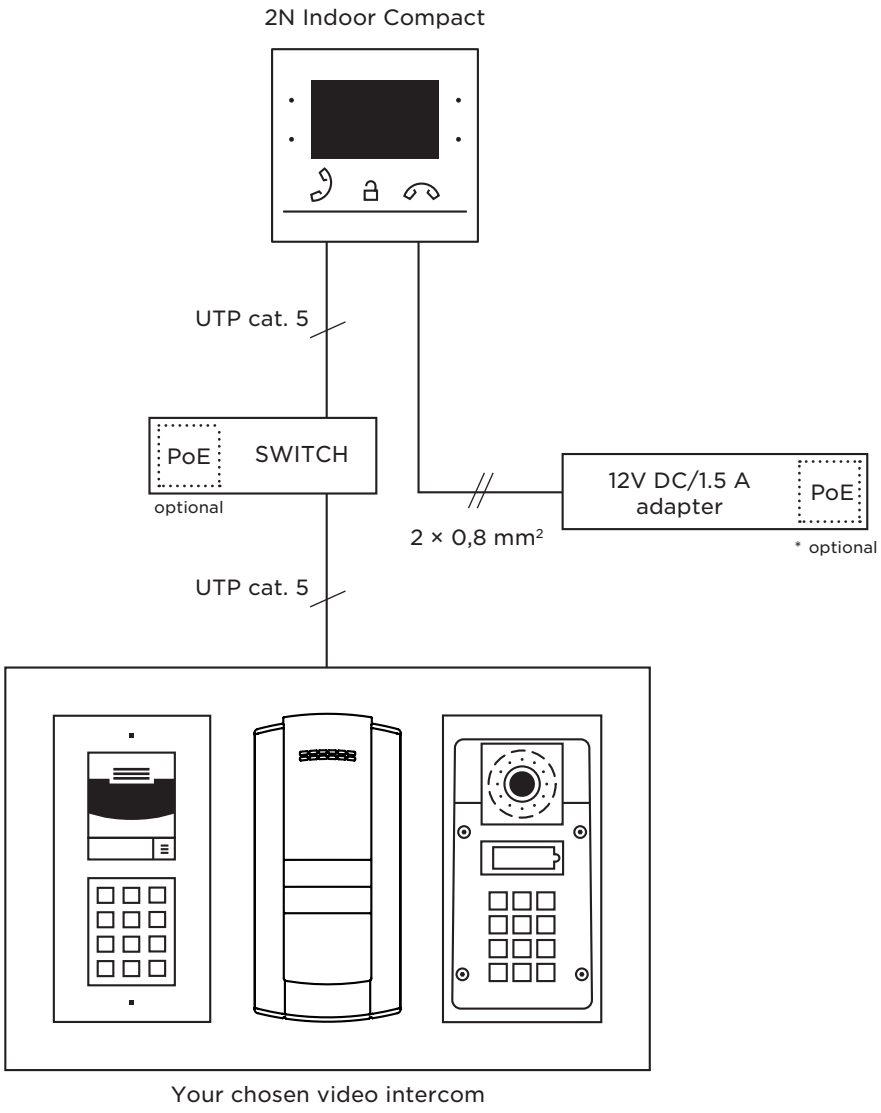
Doorbell Input

Input type	switching contact (button/relay)
Contact type	normally open (NO)
Contact parameters	up to 50V/5mA, DC

Mechanical Parameters

Dimensions (W x H x D)	152 x 153 x 50mm
Weight	387g
Operating temperature	0 to 50°C
Relative operating humidity	10 to 90% (non-condensing)
Storage temperature	-20 to 70°C
Recommended altitude	0 to 2000m

Connection diagram



Order numbers



Order No.	91378501
Name	2N Indoor Compact, black
Desc.	4.3“ display, PoE



Order No.	91378501WH
Name	2N Indoor Compact, white
Desc.	4.3“ display, PoE



Order No.	91378800
Name	2N Indoor Flush Box
Desc.	box for installation in the wall



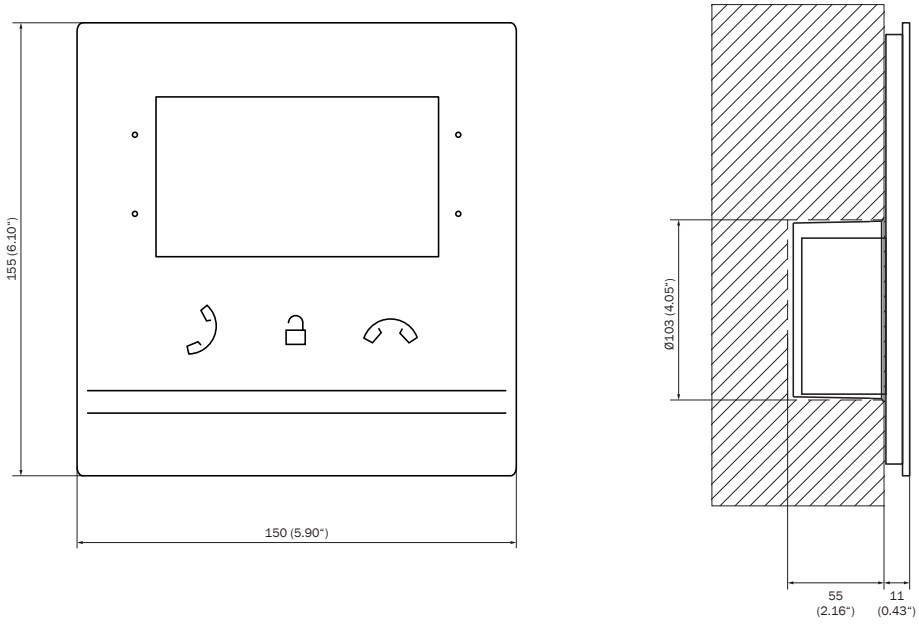
Order No.	91378803
Name	2N Indoor Surface Installation Box
Desc.	surface-mount box for 2N answering units, only in black colour



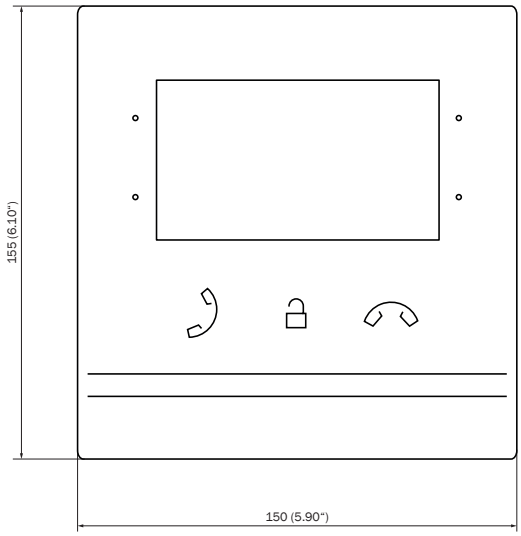
Order No.	91378802
Name	2N Indoor Desk Stand
Desc.	stand for 2N answering units, only in black colour

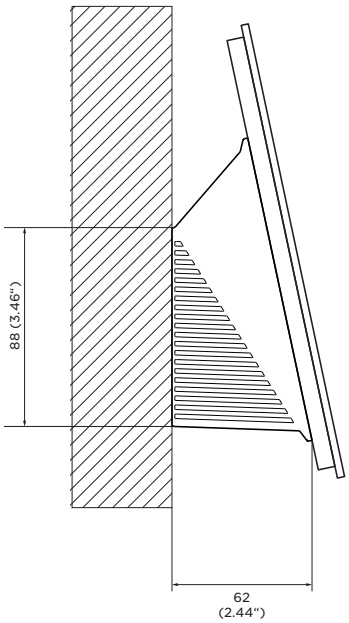
Installation options

In-wall mounted

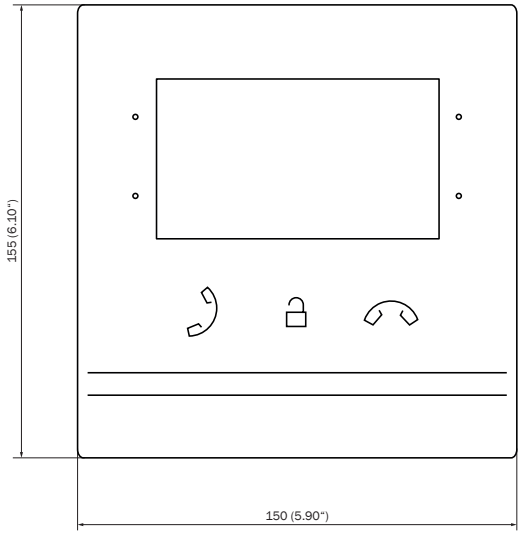


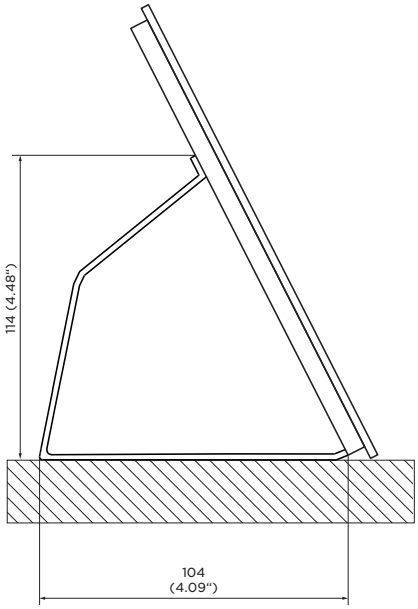
Wall-mounted





Desk stand





2N Clip

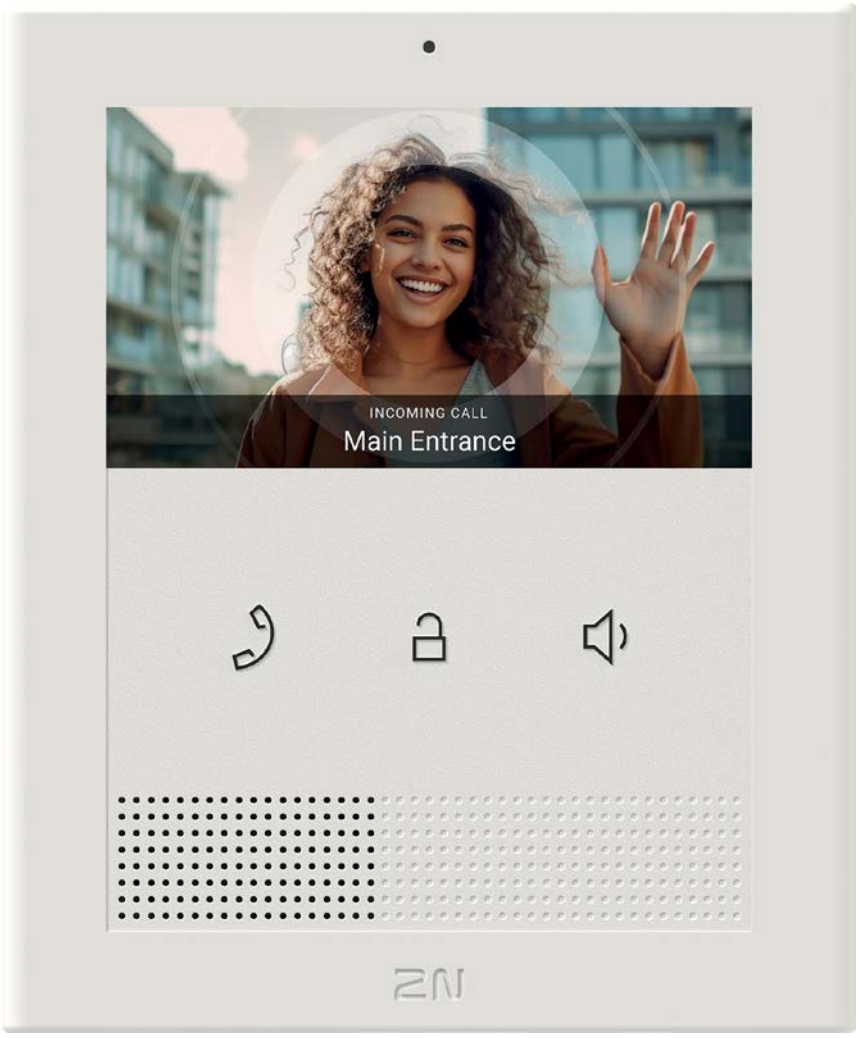


The power of IP for every home

A 4" IP unit designed to bring the convenience and safety of high-quality video to mid-priced residential projects.
Use it to meet the rising demand for more affordable housing.



2N Clip



Key features

- Perfect for mid-range projects
- Fits seamlessly into the 2N ecosystem
- Install it in 3 minutes!

Recommended uses

Video communication in mid-range projects

The 2N Clip was designed with the mid-range sector in mind. You'll get IP video, good design, and the reliability of 2N's products without the premium price tag.

To monitor both internal and external views

Forget blurry videos from outdated analog units - high-quality IP video is the new norm in modern living and is much more secure. Meet the market's standards with the 2N Clip!



Technical parameters

2N Clip

Power Supply

Type	PoE
PoE	802.3af Class 0, 48 V DC, 200 mA

User Interface

Controls	3 capacitive buttons
Operation	press and hold the RESET button to restore factory settings

Audio

Microphone	integrated
Speaker	integrated, 2W
Integrated induction loop	optional
Codecs	G.711a/u, G.722, G.729, L16/16 kHz

Video

Display	4.3" display
Resolution	480x272 pixels
Codecs	H.264

Interface

LAN	10/100BaseT, RJ-45
Recommended cabling	Cat5e or better

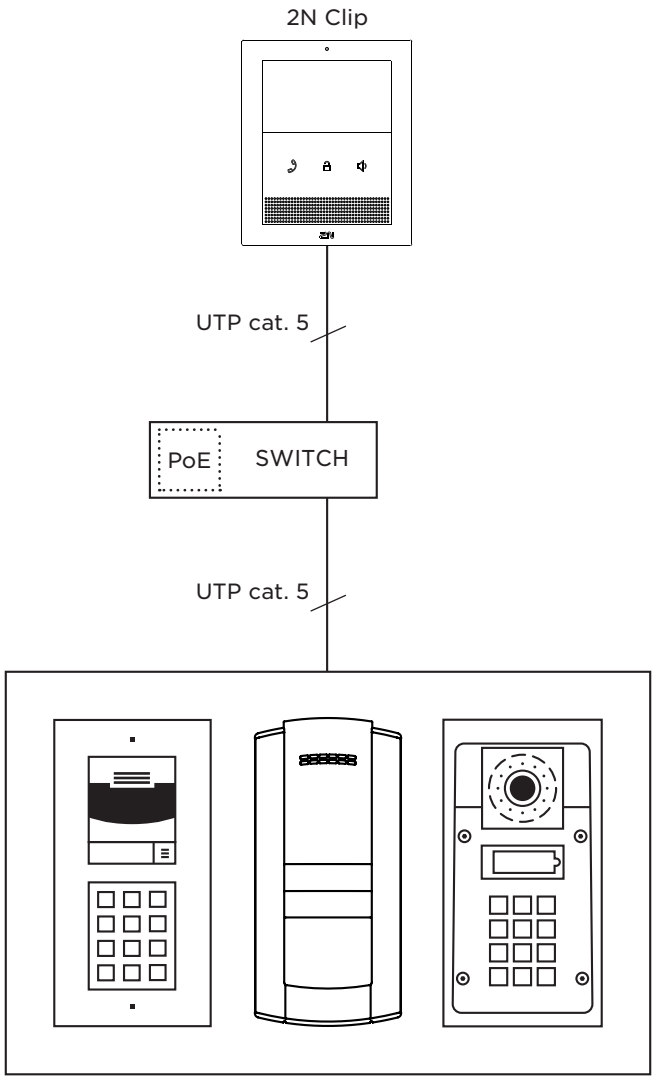
Doorbell Input

Input type	switching contact (button/relay)
Contact type	normally open (NO)
Contact parameters	12V/20mA, DC

Mechanical Parameters

Operating temperature	0 to 50°C
Storage temperature	-20 to 70°C
Relative operating humidity	10 to 90 % (non-condensing)
Recommended altitude	0 to 2000 m
Dimensions	124 (W) x 150 (H) x 28 (D) mm
Weight	235 g

Connection diagram



Order numbers



Order No.	9138511
Name	2N Clip, Ethernet
Desc.	4.3” display, 3 capacitive buttons, PoE only



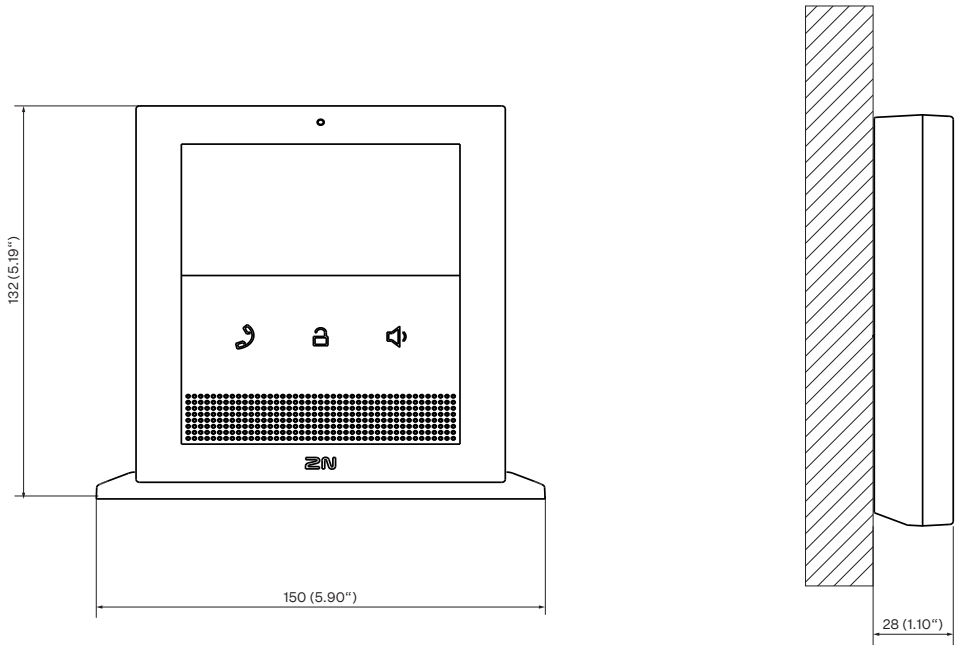
Order No.	9138512
Name	2N Clip, Ethernet, Induction Loop
Desc.	4.3” display, 3 capacitive buttons, PoE only, built-in induction loop



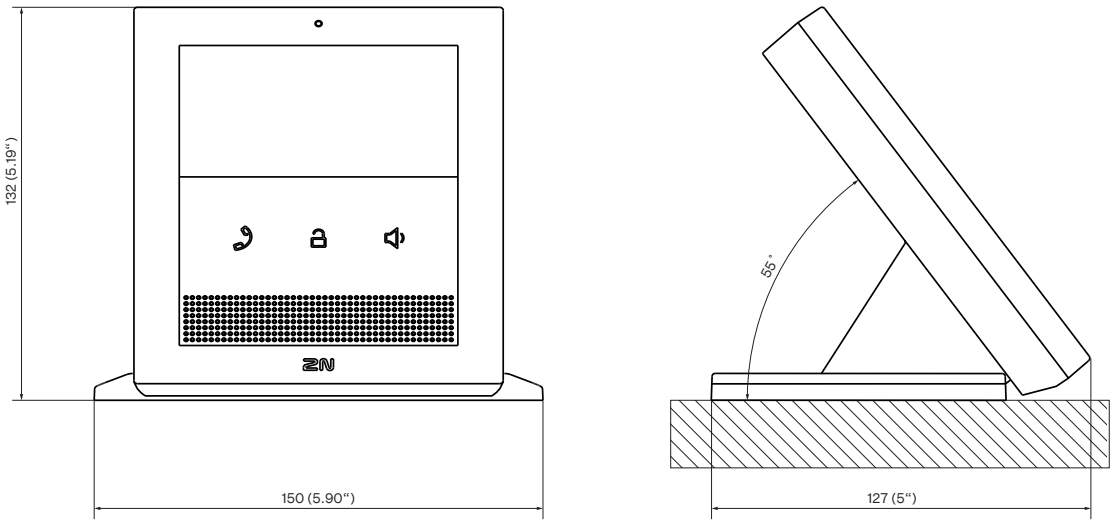
Order No.	9138002
Name	2N Clip Desk Stand
Desc.	stand for the 2N Clip, anti-slip layer

Installation options

Wall-mounted



Desk stand





2N Indoor Talk

Minimalist unit with HD sound

Suits any home and offers the highest-quality sound in an easy-to-use sleek glass unit.



2N Indoor Talk



Key features

- HD quality sound with high volume
- Luxury design and materials
- Backlit touch buttons for easy control

Recommended uses

As a unit for the whole family

Due to its simple design, anyone can quickly use the 2N Indoor Talk, no matter their age. Residents also have the option to set the intensity of icon backlighting, choose from 10 ringtones and set the unit to “Do not disturb” mode whenever they need.

As an additional answering unit

The 2N Indoor Talk can easily serve as an additional unit to the main video answering unit! It allows residents to make calls not only to a 2N IP Intercom, but to other corresponding answering units at home or to reception.



Technical parameters

2N Indoor Talk

Power Supply

Type	12V DC adapter or PoE 802.3af
Recommended power supply	12V/1A
Reverse polarity protection	yes

User Interface

Controls	7 capacitive buttons with RGB LED backlight

Audio

Microphone	integrated
Speaker	integrated, 2W
Induction loop output	600mV RMS
Codecs	G.711a/u, G.722, G.729, L16/16 kHz

Interface

LAN	10/100BaseT, RJ-45
Recommended cabling	Cat5e or better

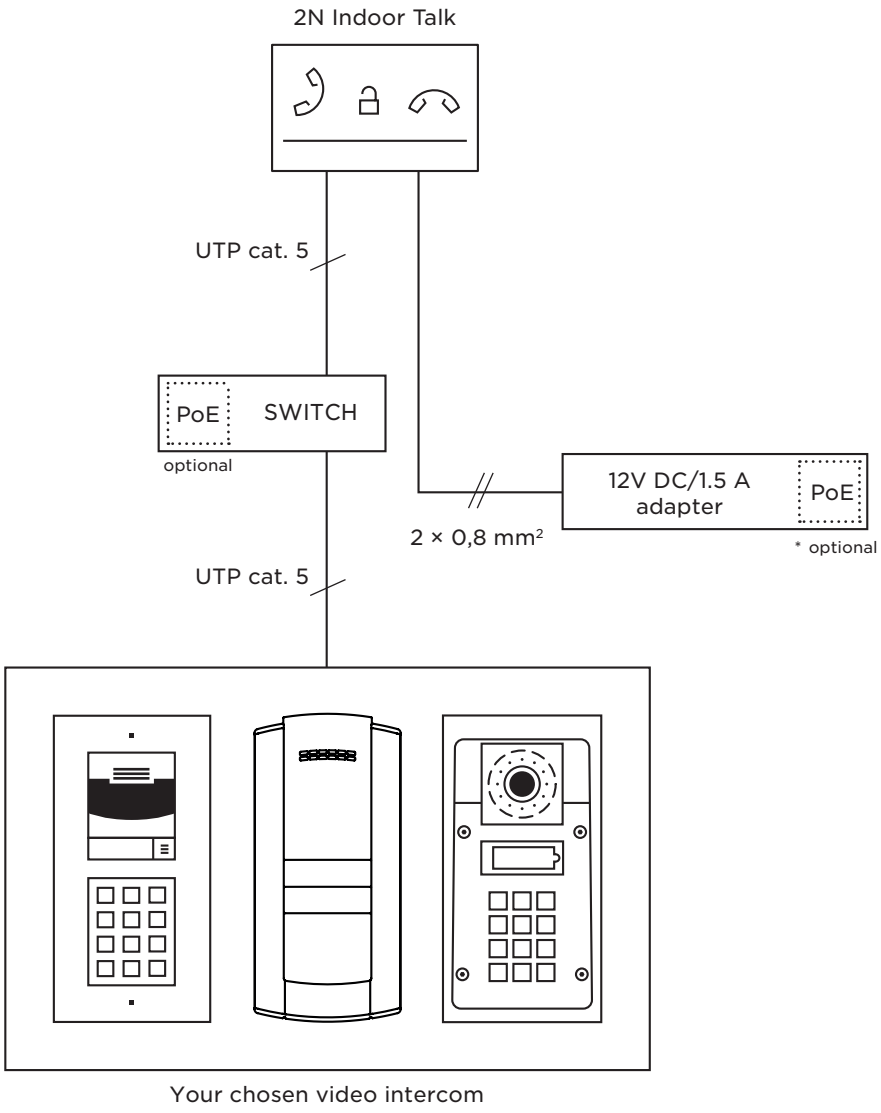
Doorbell Input

Input type	switching contact (button/relay)
Contact type	normally open (NO)
Contact parameters	up to 50V/5mA, DC

Mechanical Parameters

Dimensions (W x H x D)	185 x 128 x 48.2mm
Weight	387g
Operating temperature	0 to 50°C
Relative operating humidity	10 to 90% (non-condensing)
Storage temperature	-20 to 70°C
Recommended altitude	0 to 2000m

Connection diagram



Order numbers



Order No.	91378401
Name	2N Indoor Talk, black
Desc.	HD sound, slim design (10mm), PoE

Order No.	91378401WH
Name	2N Indoor Talk, white
Desc.	HD sound, slim design (10mm), PoE



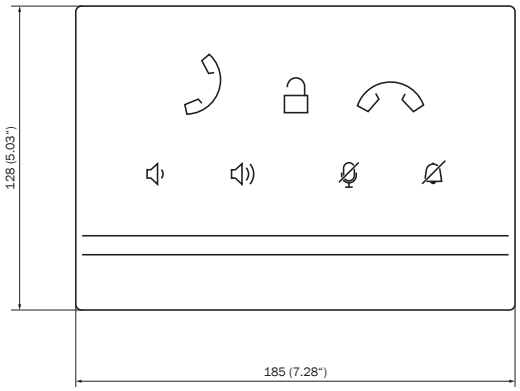
Order No.	91378800
Name	2N Indoor Flush Box
Desc.	box for installation in the wall

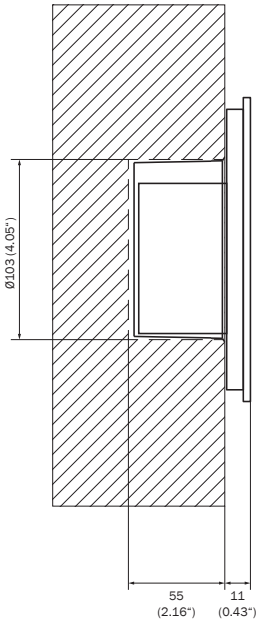


Order No.	91378802
Name	2N Indoor Desk Stand
Desc.	stand for 2N answering units, only in black colour

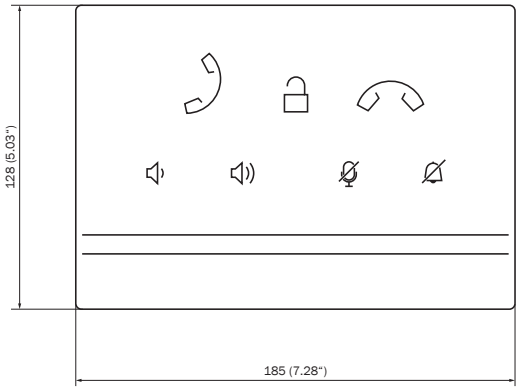
Installation options

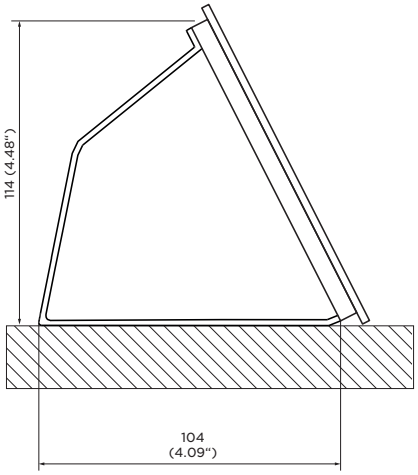
In-wall mounted



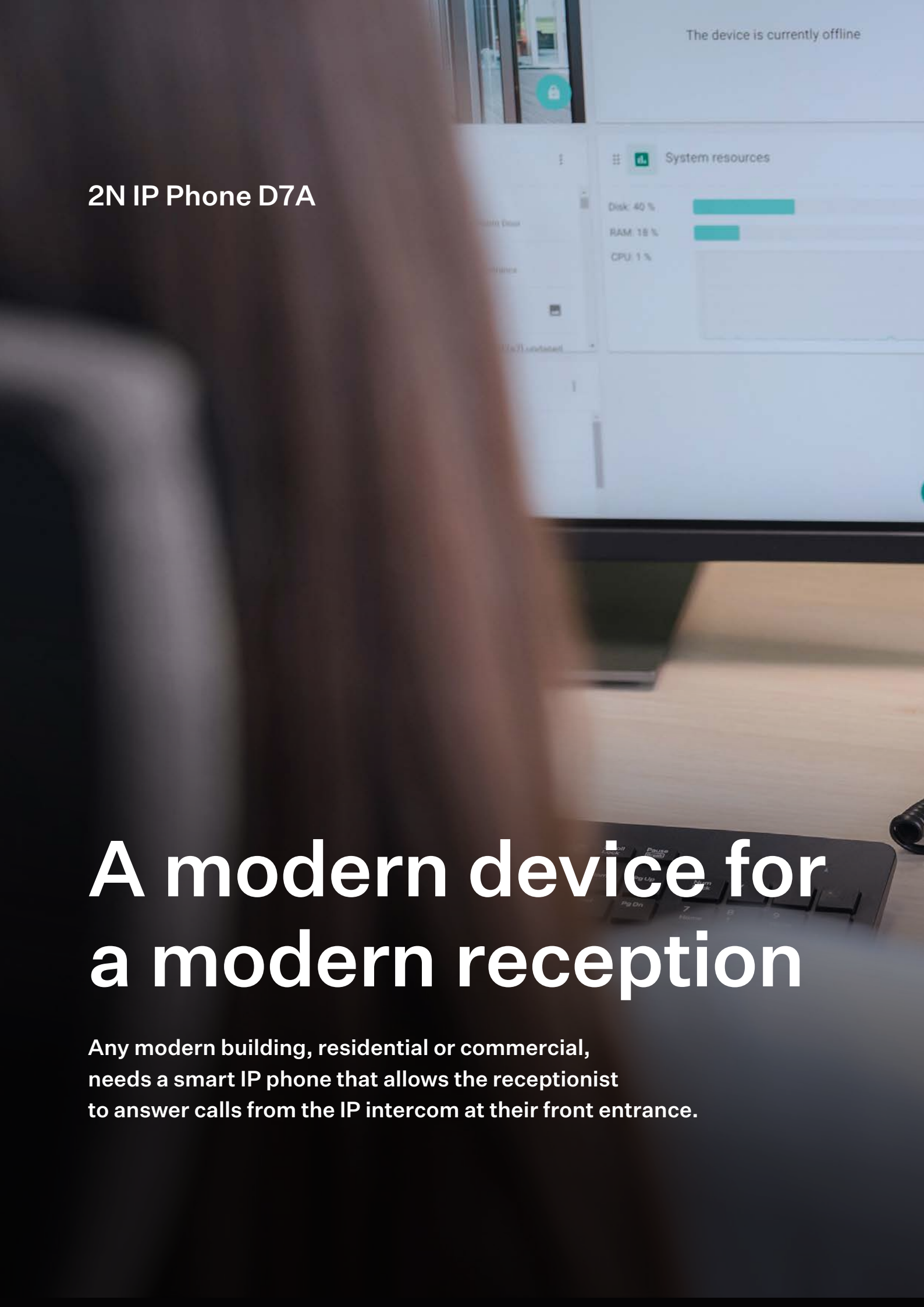


Desk stand





2N IP Phone D7A



A modern device for a modern reception

Any modern building, residential or commercial, needs a smart IP phone that allows the receptionist to answer calls from the IP intercom at their front entrance.


Answer
Silence
Reject

2N IP Phone D7A



Key features

- 7" touchscreen display
- Android OS
- Call preview

Recommended uses

Bi-directional video

Visitors can see the receptionist they’re calling directly on the display of 2N IP Style intercom. Just remember, your 2N IP Phone D7A must be equipped with USB camera.

Multiple communication options

The first is to use it as a regular desk phone. The second option is making calls via apps such as Skype or Zoom. And finally, answering a call from the intercom at the front door.



Technical parameters

2N IP Phone D7A

Audio Features

Audio codec	Opus, G.722, G.711A, G.711U, G.729, G.726, G.723.1, iLBC
DTMF	In-band, out-of-band (RFC 2833) and SIP INFO

Video Features

Video codec	H.264 High Profile, H.264, VP8
Video quality	720P (1280x720)-30fps (equal or more than 512 kbps)
Field of view (FOV)	75°±5°

Optional CAM50 Camera

Resolution	5 mega-pixels
Privacy shutter	yes
Vertical tilt angle adjustable	47±3°

Display and Indicator

Screen type	LCD
Resolution	7" 1024 x 600 capacitive adjustable touch screen
Vertical tilt angle adjustable	48°
LED	for call and message waiting indication

Phone Features

Number of SIP accounts	16
Call features	call hold, call forward, call waiting, call transfer, one-touch speed dial, hotline, mute, DND, group listening, emergency call, redial, call return, auto answer, dial plan, action URL/URI, RTCP-XR (RFC3611), VQ-RTCPXR (RFC6035), voice mail, call park, call pickup
Intercom features	preview, one-button open, monitoring
Other features	music on hold, call recording, directory, local phonebook up to 1000 entries, XML/LDAP remote phonebook, call history

Feature Keys

Number of keys	27 one-touch DSS keys
7 feature keys	hold, transfer, message, headset, mute, redial, speakerphone
Other keys	volume control, mute, headset, hands-free speakerphone key

Interface

PoE	Power over Ethernet (IEEE 802.3af), class 3
Bluetooth	4.2 for optional Bluetooth Handset BTH58, generic Bluetooth headset and paired mobile devices
USB ports	2 (one USB 2.0 port on the top of the phone for the optional CAM50 camera, one USB 2.0 port on the rear of the phone for USB flash drive or USB headset)
RJ9 (4P4C)	2 (one RJ9 handset port, one RJ9 headset port)
Extender support	supports up to 3 colour-screen extender EXP50 modules (Order No. 91378363)

Management

Configuration	web browser/local phone UI/auto provision
Auto provision	via FTP/TFTP/HTTP/HTTPS

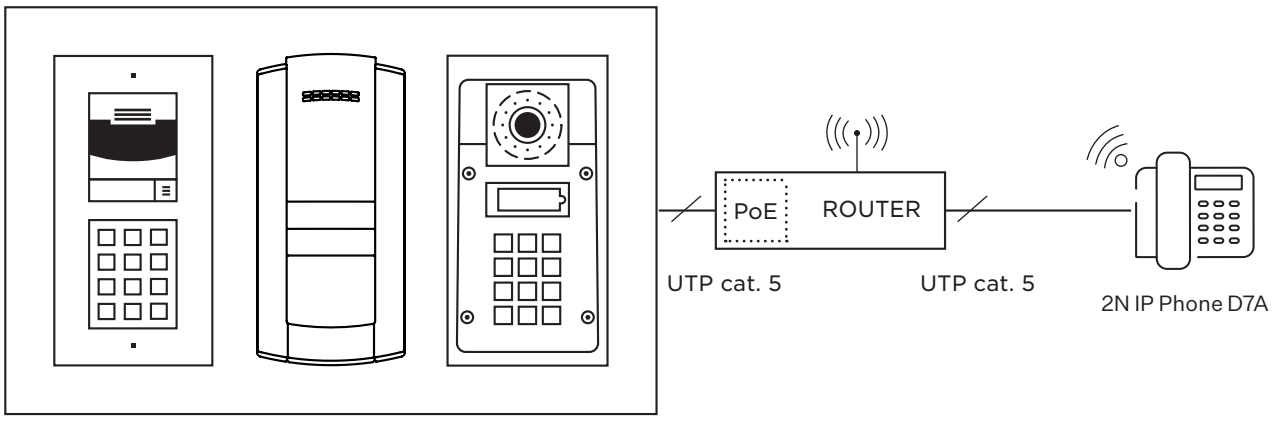
Network and Security

Ethernet	dual-port Gigabit
Wi-Fi	IEEE802.11a/b/g/n, 2.4GHz/5.0GHz
Internet protocol version	IPv4/IPv6
Signalling protocol	SIP v1 (RFC2543), v2 (RFC3261)
Call possibilities	proxy mode and peer-to-peer SIP link mode
QoS	802.1p/Q tagging (VLAN), SRTP
Encryption	TLS1.3
VPN	OpenVPN, IEEE802.1X, L2TP VPN

Other Technical Parameters

External AC adapter	optional (DC 5V/2A output)
Power consumption	2.5W~7.6W
Dimensions (WxDxH)	259.4mm x 220mm x 215mm
Package content	2N IP Phone D7A, wired handset with cord, ethernet cable, desk stand, quick start guide
Wall mountable	optional (with wall mount bracket, Order No. 91378364)

Connection diagram



Your chosen video intercom

Order numbers



Order No.	1120102
Name	2N IP Phone D7A
Desc.	7" touchscreen display, Android OS



Order No.	91378363
Name	Extender module for the 2N IP Phone D7A
Desc.	add up to 60 speed dials to the phone



Order No.	1120105
Name	USB camera for the 2N IP Phone D7A
Desc.	required for a two-way video function with the 2N IP Style intercom



Order No.	91378364
Name	Wall mount bracket for the 2N IP Phone D7A
Desc.	allows you to place the phone on the wall

My2N App

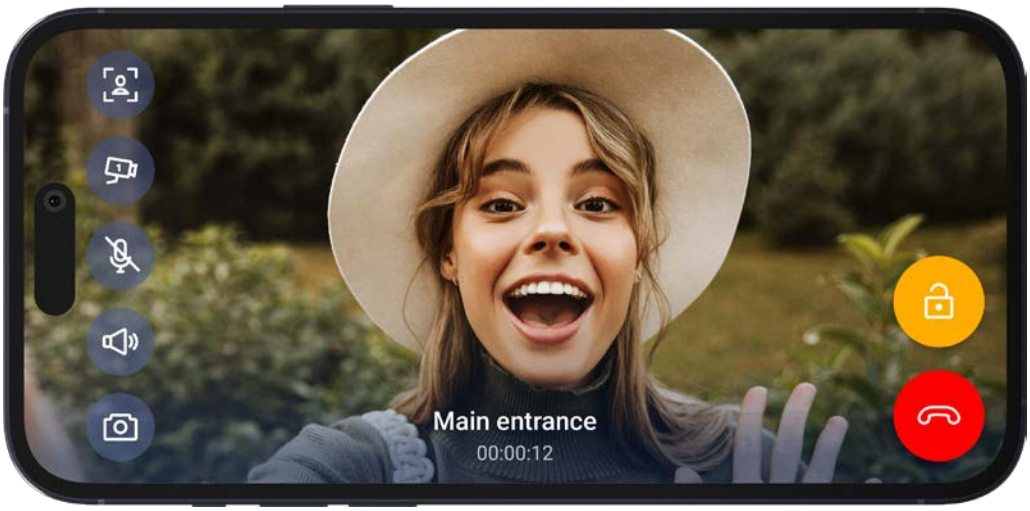
Access & door control at your fingertips

The My2N App creates a seamless, unified mobile experience for users. Just this one app will allow them to both answer their doors remotely and use WaveKey mobile access control to enter buildings.




Main entrance
00:00:12

My2N App



Technical parameters

Mobile phone

Operating system:	iOS 16 and later, or Android 10 and later
App	My2N app installed
Internet connection	Wi-Fi, 3G, 4G, 5G - with slower connections, the service may not work properly, or you may experience reduced video quality.

Video intercom

Video intercom type	2N IP video intercom with camera, AXIS video intercom
2N OS version	2.22 and later
Internet connection	Internet connection via cable or SIM card (2N LTE Verso)

Reliability

	Service reliability is 99.98%

Limitations

Maximum number of devices in one installation:	500
Maximum number of devices called from one speed dial button:	5

Price conditions

Subscription	cloud calling service from a video intercom to a mobile phone/tablet is subject to charges. You can purchase a subscription from your 2N hardware supplier or directly from the My2N Management Platform.

Key features

Answer the door from anywhere

Give your residents a world where they are aware of every visit to their homes.
The My2N app connects the call from the intercom at the door to users wherever they are.

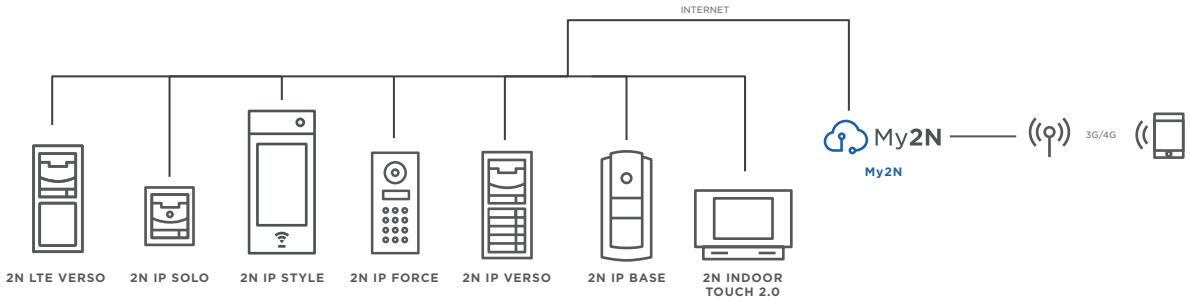
Convenient mobile access control

Leave keys and RFID cards where they belong – in the past. WaveKey technology ensures users need only their mobile phones to access and move around the building.

Round-the-clock home surveillance

Using their mobile phone, users can see what is happening outside their homes at any time.
And with an external camera connected, they can even see around the corner!

Connection diagram



Order numbers

Order No.	9137958
Name	My2N Annual Apartment Subscription
Desc.	1 year subscription for 1 apartment

Order No.	9137957
Name	My2N Annual Device Subscription
Desc.	1 year subscription for 1 device

2N Access Commander

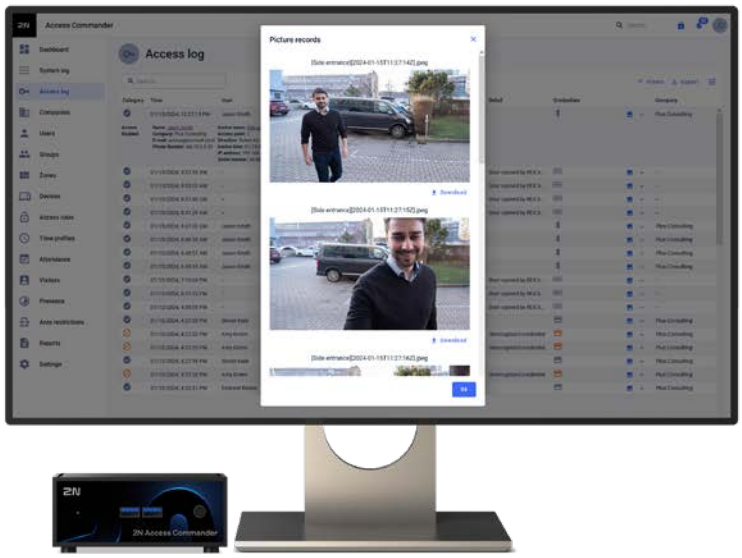
Software for efficient access management

The 2N Access Commander allows site admins to configure IP intercoms, access control readers, and other devices in a user-friendly, centralized interface that offers advanced access configuration.




Access Commander
Search
JD
Devices requiring attention
2N Indoor Touch 2.0
OFFLINE
Server room
UNMANAGED
Access log
Access granted
01/12/2024 | 4:27:55 PM | Side entrance | A0 - lobby
Unrecognized credential
01/12/2024 | 4:27:52 PM | Side entrance | A0 - lobby
Unrecognized credential
01/12/2024 | 4:27:23 PM | Side entrance | A0 - lobby
Side entrance
Main entrance
Open
Garage gate
Conference room
Occupancy
Lobby - back area
6 / 20
Servers - area
4 / 5
Visitors
Ashley Lombard
ACTIVE
Duncan Green
EXPIRED
Add visitor
System resources
Access control overview
3
Companies
78
Devices
642
Users
16
Zones
14
Groups
9
Time profiles
18
Visitors
128
Access rules
System log
Time obtained from NTP server was overridden by My2N time
01/15/2024 | 11:22:41 AM | Garage gate
Time obtained from NTP server was overridden by My2N time
01/15/2024 | 11:22:38 AM | Main entrance
Time obtained from NTP server was

2N Access Commander



Technical parameters

General

Distribution	The 2N Access Commander is distributed as an image for server installation (2N Access Commander Virtual Machine) or as a software pre-installed on mini-PC (2N Access Commander Box).

2N Access Commander Virtual Machine

Introduction	The 2N Access Commander is an access control software distributed as a complete package in the .OVA format. It is intended to be imported into the virtual systems such as Oracle VM VirtualBox, VMware (v6.5) or Microsoft Hyper-V. The server should be up and running 24/7 as it records all logs from connected 2N devices.
Example of HW requirements	Below are the minimum suggested requirements for an installation of up to 500 devices (2N IP intercoms and access units) connected to the 2N Access Commander and 7,000 users.
Operating system:	any 64-bit system (Windows, Linux, macOS, Solaris)
CPU	2 GHz & 2 cores (64-bit)
RAM	2 GB
Internet connectivity	needed for the software upgrade (512 kbps at least)

2N Access Commander Box 2.0

Introduction	The 2N Access Commander Box 2.0 is an access control software pre-installed on an ultra-compact, small and powerful computer.
Dimension	56.1 x 107.6 x 114.4 mm (0.69 L)
CPU	2.24 GHz (Intel Celeron Processor J3160)
Hard drive	120 GB (2.5” SSD SATA III)
RAM	4 GB (DDR3 SODIMM memory)
Connectors	VGA and HDMI Gigabit LAN port
Mounting	VESA mounting bracket
Operating temperature	0°C to +35°C
Storage temperature	-20°C to +60°C
Connected devices	2,000*
Users	100,000*
Users per group	1,5 *Applies only to Access Commander version 2.0 or higher

Supported browsers

Optimized for	Google Chrome browser (version 60 and higher)
Other supported browsers	Mozilla Firefox (version 55 or higher), Microsoft Edge (version 40 and higher) As other browsers have not been fully tested, their full functionality cannot be guaranteed.

Key features

Centralised device management

Update firmware in bulk and in a few clicks. It ensures optimal performance and security of devices. Plus you can see immediately if devices are all online and check their door states.

Multi-company sites

Admins may control the whole site whilst managers may be granted set privileges in their own company. This makes 2N Access Commander an ideal solution for buildings with several companies.

Attendance monitoring

2N Access Commander offers native attendance monitoring features. Track user attendance, view reports in the software and export records to PDF or CSV.

Highly open to integration

A REST API offers endless integration possibilities. LDAP support and custom mappings streamline workflow with user directories. CSV sync provides low level integration with simpler systems.

Logs and notifications

Respond more effectively to designated events thanks to instant alerts by email or in the notification channel. Get the full picture with camera logs offering snapshots surrounding chosen events.

Free mobile credentials

Mobile access control, powered by WaveKey, is fully integrated in the software. No separate reader programming tools, no need to use a 3rd party mobile credential gateway and best of all, no charge for credentials.

Visitor credential management

Easily onboard visitors, granting time-limited access to the areas you choose. Issue credentials remotely for self-serve access and maintain an audit trail for compliance.

Area restrictions

Tighten security and enforce access policy compliance with the Anti-passback function. Restrict how many people are allowed in +an area with Occupancy Management.

Order numbers



Order No.	1120120E
Name	2N Access Commander Box 2.0
Desc.	Access Control software pre-installed on mini-PC (European power lead)

Order No.	1120120GB
Name	2N Access Commander Box 2.0
Desc.	Access Control software pre-installed on mini-PC (UK power lead)

Information about the license policy for 2N Access Commander can be found on our website www.2n.com

2N PICard Commander

Software for secured RFID cards management

The software is designed for both facility managers and system integrators and allows them to create unique cryptographic key sets for each site. These keysets are used to encrypt access credentials on MIFARE DESFire EV2 and EV3 cards.


Video1
Card encryption
Project configuration
Card encryption
Credential ID for new card (hex)
548354527183CC4AA80A5EB482AB167B
Card successfully encrypted.
Remove the card and place another one card on the reader.
Encrypt
View card list (1 cards personalized)
Automatically encrypt cards upon presentation to the reader

2N PICard Commander



Technical parameters

Operating system	MS Windows 10 or newer
Compatible RFID cards and keyfobs	MIFARE DESFire EV2/EV3 11202601 ... 2N RFID card 11202602 ... 2N RFID keyfob Note: If an existing card (i.e. a card that is already being used by users in a facility) is supposed to be used with 2N PICard Commander, a PICC master key of the respective card must be known. The card must be also set in a way that it requires the PICC master key to be entered to write a Picard application on it.
Minimum free card capacity	512B
Compatible external USB readers	9137421E ... External RFID Card Reader 125kHz + 13.56MHz with NFC (USB) 9137424E ... External Secured RFID Card Reader 125kHz + 13.56MHz with NFC (USB)
Security standards and mechanisms	MIFARE DESFire EV2 Secure messaging AES-128 encryption ECDSA digital signature
Minimum supported FW & SW versions	2N Access Commander 2.4 2N devices with 2N OS 2.37
Compatible 2N devices	2N PICard credentials can be read by all 2N devices with 13.56 MHz readers

Key features

Multi-level security

Industry standards such as symmetric (AES-128) and asymmetric (ECDSA) encryption, master encryption keys under the customer's full control, the entire project protected by an additional password, and more.

Capability without complexity

The software is designed so that the user doesn't need to be an RFID card expert to create and manage secure credentials.

Flexibility

2N PICard Commander is suitable for both facility managers managing single buildings and system integrators managing multiple sites. Integrators can also offer secure card management as a service.

Build on a proven MIFARE DESFire standard

Minimizes the possibility of access card copying by using the most widespread, secure standards that have the perfect balance of speed, performance, and cost-efficiency.

Adapt to customer's needs

Cards can be set purely for access control usage ensuring maximum security or to support their use in other applications such as printers. Already have cards? 2N PICard credentials can be written on them too!

Order number

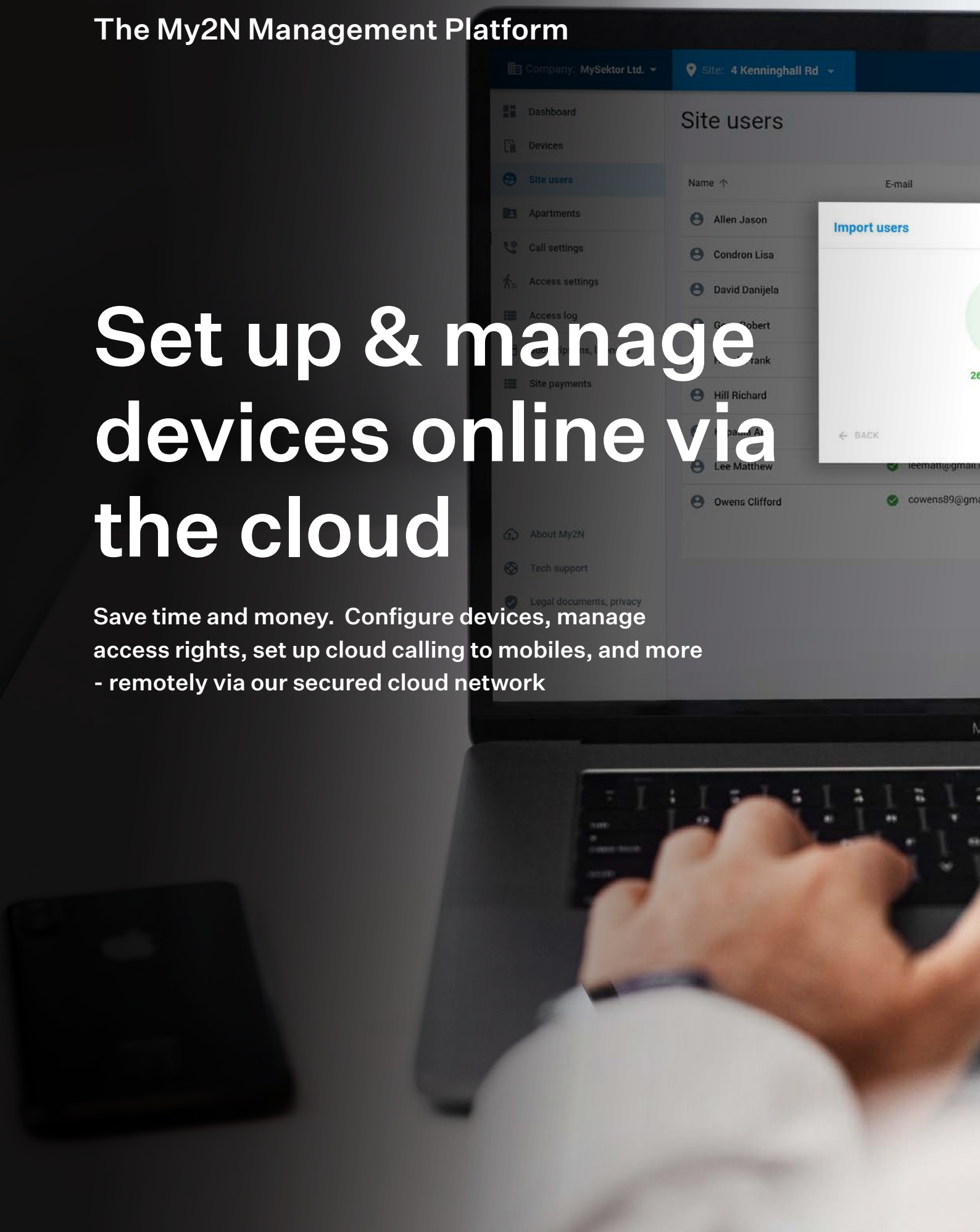


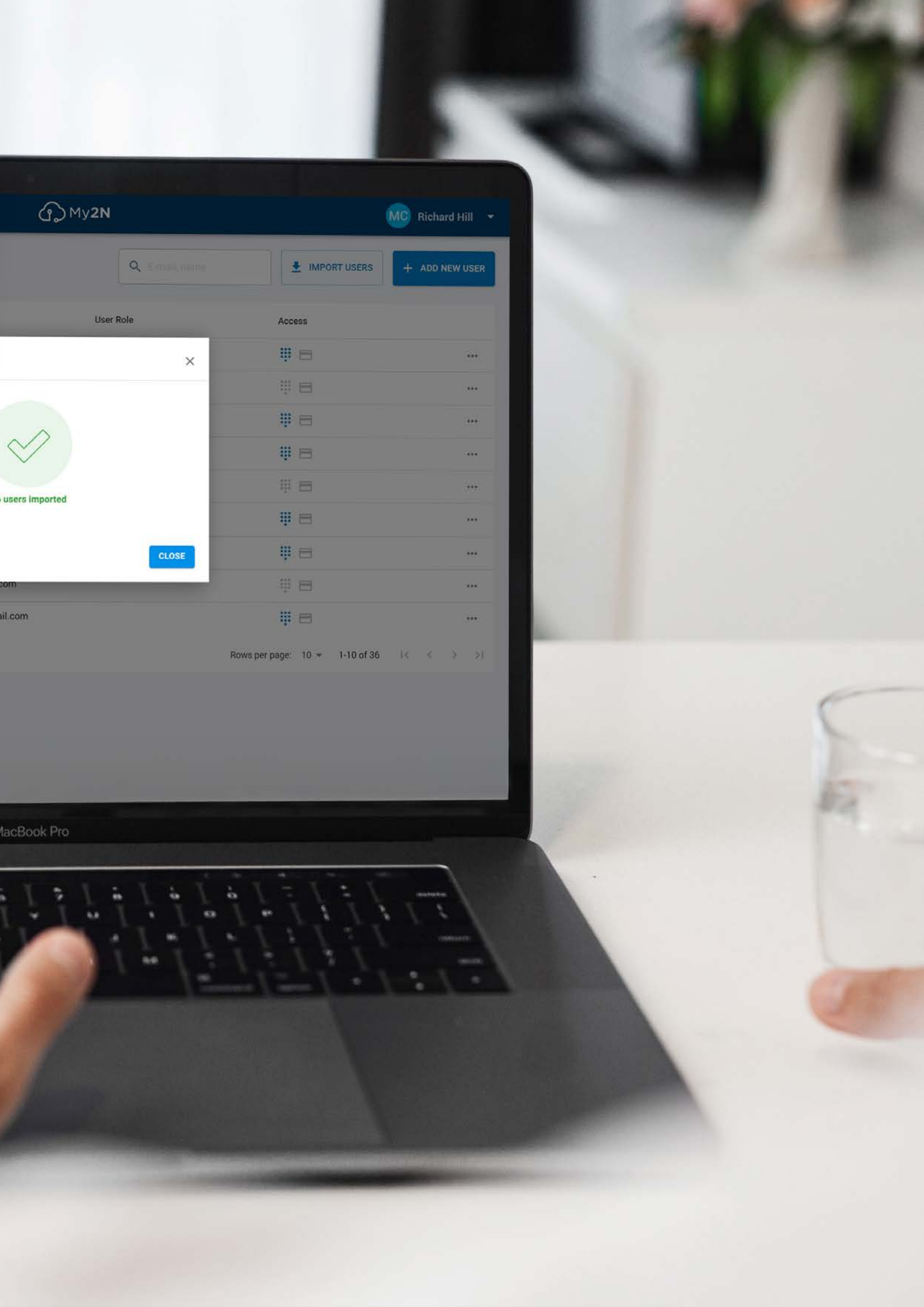
Order No.	93179601
Name	License
Desc.	one-time license per connected external USB reader

The My2N Management Platform

Set up & manage devices online via the cloud

Save time and money. Configure devices, manage access rights, set up cloud calling to mobiles, and more - remotely via our secured cloud network




My2N
MC
Richard Hill
IMPORT USERS
ADD NEW USER
User Role
Access
users imported
CLOSE
Rows per page: 10
1-10 of 36
MacBook Pro

The My2N Management Platform

Key features

Don’t waste your time on training

Anyone can find their way around the My2N web interface: leaving you time to focus on closing new contracts.

Provide 21st-century services

Make sure you’re keeping up with modern demands for advanced services. My2N cloud includes video calling from an IP intercom to a smartphone or a tablet.

Always online

Our cloud solution is powered by the best backup servers in the world. Just like millions of other users, you can always rely on them.

Save on travel costs

Connect to the product remotely and handle 4 out of 5 of your customers’ requests from your home or office.

Don’t compromise your reputation

Rely on a secure European solution that adheres to GDPR and ISO 27001 standards.

Recommended uses

Cloud calling

Make calls from the IP intercom to a hardware answering unit or mobile phone via the cloud. If the devices are all connected to the internet, you can set up a call between them in My2N in mere minutes.

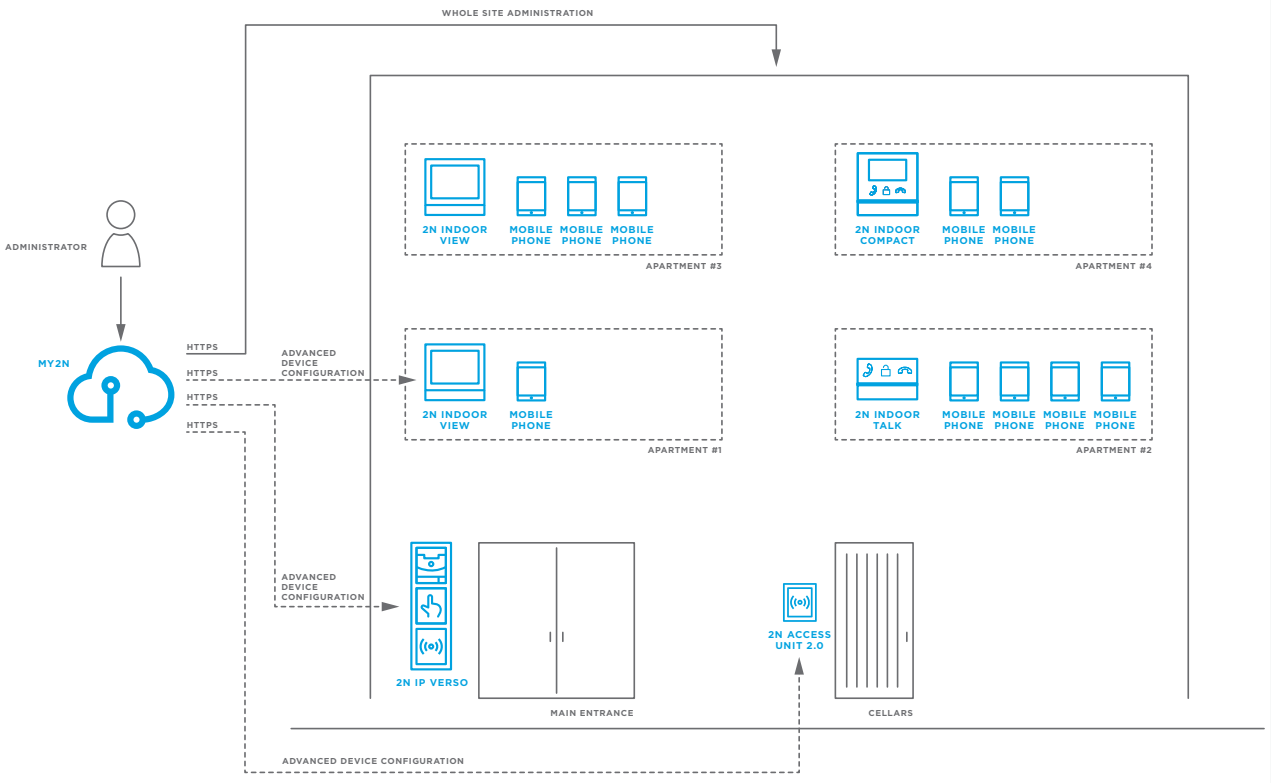
Access control

Manage user access rights in the intuitive My2N Management Platform environment. Perfect for multifamily sites, it combines simplicity with efficiency by allowing you to remotely manage devices.

Remote management

No one these days wants to travel around solving customer requests face to face. Thanks to remote management, you can add and remove users and devices, update firmware, diagnose and troubleshoot, all without leaving your home or office.

Diagram of managing door systems



Other Accessories

RFID tags (for Verso and Force)

Card EMarine RFID 125 kHz	9134165E
Key EMarine RFID 125 kHz	9134166
Card Mifare RFID 13.56 MHz	9134173
Key Mifare RFID 13.56 MHz	9134174

External card reader RFID

External RFID card reader 125 kHz EMarine	9137420E
External RFID card reader 125 kHz + 13.56 MHz (USB)	9137421E
External card reader Wiegand 125 kHz EMarine RFID	9159030
External card reader Wiegand 13.56 MHz Mifare RFID	9159031
External Bluetooth reader (USB interface)	9137422E
External fingerprint reader (USB interface)	9137423E
External RFID card reader secured 125kHz + 13.56MHz (USB)	9137424E

Licences

Other

2N IP Verso connection cable length 3m	9155054
2N IP Verso connection cable length 5m	9155055
2N IP Verso Blind button	9155051
2N IP Verso Security Bundle	9155198SET
2N IP Security Relay	9159010
Wiegand Isolator	9159011
2N Induction Loop	9159050
External antenna	9159051
Power supply 12V/1A	9159052
2N 2Wire (plug EU/US/UK)	9159014EU 9159014US 9159014UK
Exit button	9159013
IP relay – 1 output	9137410E
IP relay – 4 output	9137411E
Magnetic contact	9159012
Power supply 12V/2A	91341481E
Transformer	932928
PoE Injector (EU/US plug)	91378100E 91378100US

Version: 1. (redesing)
Issued: March 2024

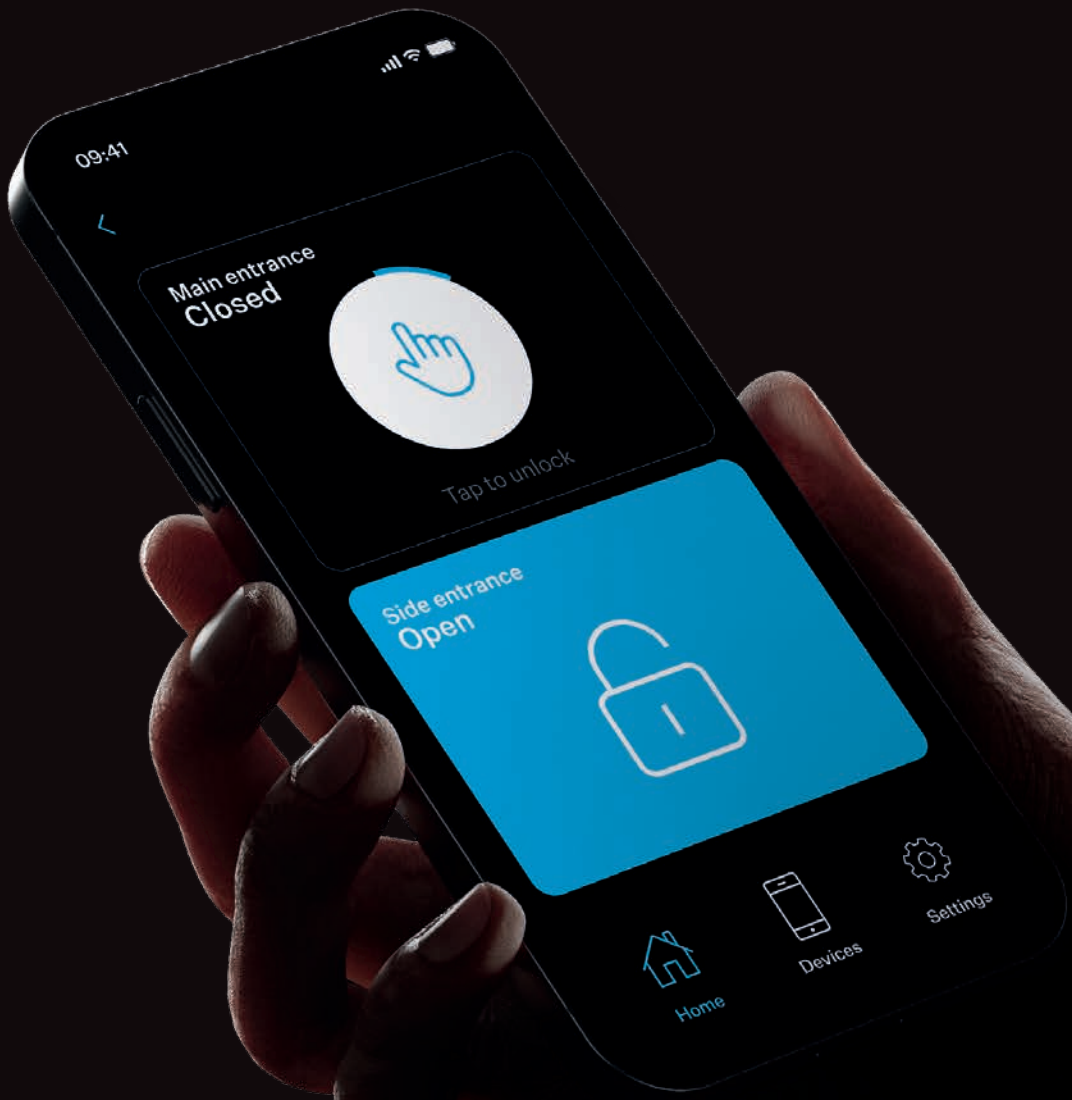
2N Telekomunikace, a.s.
Modřanská 621, 143 01, Prague 4
Company ID No 26183960
sales@2n.com, www.2n.com

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Unlock the Future

Build a modern access control solution that exceeds all your expectations. 2N set industry standards and never compromise on (cyber)security.


09:41
Main entrance
Closed
Tap to unlock
Side entrance
Open
Home
Devices
Settings

2N TELEKOMUNIKACE a.s.

Prague, Czech Republic | +420 261 301 500 | sales@2n.com

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