



## 2N® 2Wire

2N® 2Wire is a converter that allows you to connect any IP device in places without an IP infrastructure. You only need to use the existing cable wiring from a doorbell or telephone. What's more, one cable is all you need for both data transfer and power supply.



Buildings with analogue infrastructure

Sites with limited IP infrastructure

### Ethernet including PoE over 2 wires

Connect any IP device using a two-wire or coaxial cable, even in an analogue environment, or a site with limited IP infrastructure.

### Easy installation

No more configuring! At each end of the cable you just plug in one 2N® 2Wire unit and connect at least one of them to a power source.

### Long reach

Powering the IP-connected devices via PoE is possible up to a distance of 220 m, twice the maximum Ethernet specification cable length.

# 2N® 2Wire

## FEATURES & BENEFITS

### Universal Ethernet 'extension'

With 2N® 2Wire you'll get Ethernet even in places with no IP network. You can hook up any IP devices, e.g. 2N IP intercoms.

### Robust aluminium housing

Thanks to its aluminium housing the 2N® 2Wire converter is rugged and resistant to mechanical damage.

### Utilize existing cabling

2N® 2Wire enables you to make use of existing wiring. You won't have to lay new cables or do construction work.

### Reliability

The converter will not let you down. It is significantly more reliable, in comparison with alternatives, such as a WiFi connection.

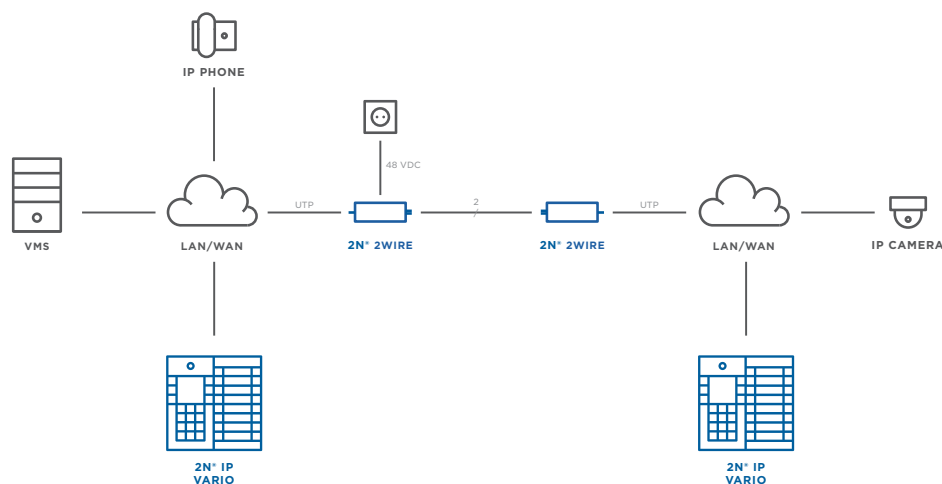
### Screw-in connectors

2N® 2Wire uses high-quality connectors, which prevents cables from falling out, giving you even more reliability.

### Power supply

Included is an adapter with a selectable US/UK/EU plug.

## DIAGRAM



## TECHNICAL PARAMETERS

### Ethernet Interface

|                |                                                            |
|----------------|------------------------------------------------------------|
| Connector type | RJ45                                                       |
| Speed          | 10/100 Base T, half-duplex / full-duplex, auto-negotiation |

IEEE 802.3af/at 40 W,  
PoE+ compatible

### Extension cable interface (2-wire/UTP)

|                |                                  |
|----------------|----------------------------------|
| Cable type     | 2-wire, Cat 5e, Cat 6 or similar |
| Impedance      | 25 $\Omega$ to 100 $\Omega$      |
| Transfer range | max. 220 m (720 ft) with Cat 6   |

### Transfer method

|                   |                   |
|-------------------|-------------------|
| Access method     | CSMA/CA and TDMA  |
| Modulation method | Windowed OFDM     |
| Frequency band    | 1.8 MHz to 30 MHz |

### LED indicator lights

|              |                       |
|--------------|-----------------------|
| Power supply | Blue – power on       |
| BNC          | Green – connection on |
| PoE          | Green – connection on |

### Electrical power supply

|                 |                                                             |
|-----------------|-------------------------------------------------------------|
| AC input        | 100-240 VAC, 50-60 Hz                                       |
| DC output       | 48 VDC / 0.84 A-1.3 A                                       |
| Characteristics | $U_{in} < 1,1V$ (L), $U_{in} > 3V$ (H), max. $U_{in} = 32V$ |

### Mechanical properties

|                       |                                                    |
|-----------------------|----------------------------------------------------|
| Dimensions            | 1.57 x 1.57 x 2.95 in, 40 x 40 x 75 mm (h x w x d) |
| Weight                | 120 g (4.2 oz)                                     |
| Material              | extruded aluminium                                 |
| Operating temperature | 14 to 122°F (-10 to +50°C)                         |
| Storage temperature   | -22 to 158°F (-30 to +70°C)                        |

## HARDWARE

**2N Access Unit** – access control unit for building access

**2N® IP Verso** – modular security intercom for the most discerning customers

**2N® IP Force** – arguably the most robust IP intercom worldwide

**2N® IP Vario** – a variable intercom with an elegant design

**2N® IP Uni** – a doorway intercom that is remarkably affordable

**2N® IP Audio/Video Kit** – OEM intercoms designed to fit into your equipment