

# N905-P

## Ethernet / Fast Ethernet media converter over optical fibre with PoE injector

### Product specifications



N905-P is a PoE Ethernet (10Base-T) or Fast Ethernet (100Base-TX) media converter over optical fibre.

Thanks to its slot for SFP modules, this unit accepts any fibre link, singlemode or multimode and one or two fibres.

It supports automatic selection of half or full duplex mode, and N905-P allows a maximum distance of 110 km using singlemode fibres.

It may behave as PoE injector (IEEE 802.3af), up to 15 W, or PoE+ injector (IEEE 802.3at), up to 40 W, and even with legacy systems

Since it provides power to the connected device through the same Ethernet cable, the costs associated to power supplies, cabling and installation are reduced.

It is available in stand alone format (optionally with a kit for DIN rail mounting), compatible with a 19" 3U high housing.

The power supply is +48 Vdc if working as a PoE injector. Otherwise, +9 to 48 Vdc.

Operating temperature range between -40 °C and +74 °C.



Media converter and PoE injector

Auto MDI/MDI-X

Configurable with SFP modules that allow different link configurations

Suitable for IP cameras, links among switches, access control, etc.  
It can be linked directly with the switches optical ports

Stand-alone format, for housing or for DIN rail mounting



Media converter

## Specifications:

Electrical interface		Optical interface	Link distances <sup>(1)</sup>
Type of signal	10Base-T (Ethernet) 100Base-TX (Fast Ethernet)	Compatible SFP module	Up to 110 km
Rate	10 / 100 Mb/s (Autonegotiation)	<b>Power</b>	
Operation mode	Full duplex, half duplex (automatic detection)	Power supply	+9 ~ 48 Vdc (without PoE injector) +48 Vdc (using PoE injector)
UTP max length	Auto MDI/MDI-X 100 metres	Consumption <sup>(2)</sup>	<3 W (without PoE injector) <43 W (using PoE injector)
Electrical connector	RJ45	<b>Format and dimensions</b>	
PoE injector	IEEE 802.3af / IEEE 802.3at	Format	Stand-alone DIN rail 19" housing
<b>Indicators</b>		Dimensions	95 x 80 x 24 mm (no connectors)
Unit in operation	ON	<b>Operating environmental conditions</b>	
Activity	Link Act	Temperature	-40 °C ~ 74 °C
Rate 100 Mb/s	Link Speed	Humidity	0% ~ 95% (non-condensing)
SFP-correct	SFP Status		
SFP-failure in RX	SFP Status		
SFP-failure in TX	SFP Status		
SFP-absent or failure	SFP Status		
In TX/RX	SFP Status		
PoE-PD correct	PoE Status		
PoE-PD absent	PoE Status		
PoE-PD overload	PoE Status		
PoE-PD invalid	PoE Status		

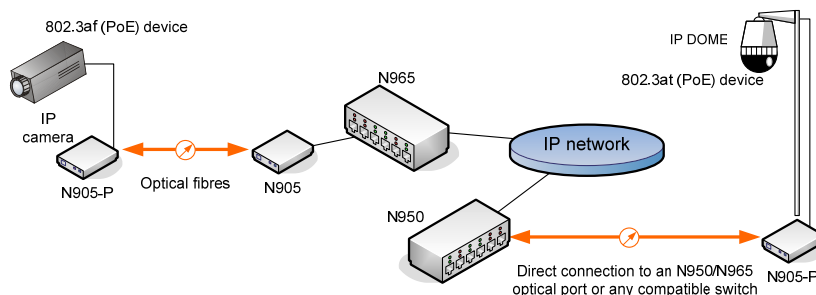
## Ordering information:

Code	Version
N905-P	Ethernet / Fast Ethernet media converter with PoE injector

## Associated equipment <sup>(3)</sup>:

Model	Description
FOM-E-2-C02	Optical module for FastEthernet port over 2 multimode optical fibres, 1,310 nm, LC connector, distance 2 km
FOM-E-1-AB02	Optical module for FastEthernet port over 1 multimode optical fibre, 1,310/1,550 nm, LC connector, distance 2 km
FOM-E-1-BA02	Optical module for FastEthernet port over 1 multimode optical fibre, 1,550/1,310 nm, LC connector, distance 2 km
FOS-E-2-A30	Optical module for FastEthernet port over 2 singlemode optical fibres, 1,310 nm, LC connector, distance 30 km
FA220/48-DIN	48 Vdc / 2.5 A power supply (format for DIN rail mounting)
FA220/12	12 Vdc / 1.5 A power supply (when not functioning as a PoE injector)

## Sample application:



### Notes:

- (1) Maximum link distances are calculated for typical values of the fibre already installed. For special requirements exceeding these values, please contact the manufacturer
- (2) Typical values, as production average
- (3) Generally, it is possible to connect any compatible SFP module, either for 1 or 2 fibres, singlemode or multimode, for a maximum distance of 110 km

Specifications can be modified without notice as a consequence of the constant improvement of the systems