

Features of the power supply unit:

- The output voltage range 44-57VDC
- Power from PoE switch
- The PoE IN input compliant with the IEEE 802.3af/at standard
- The PoE OUT1/2 outputs compliant with the IEEE 802.3af/at standard (selectable by switch)
- The OUT3 PoE output – passive
- Increases Ethernet and PoE power range by 100 meters
- designed for 10Mbit/s and 100Mbit/s network
- The possibility to turn off power to the PoE OUT1 / 2 ports
- LED optical signalization
- protections:
 - surge protection (PoE input)
 - OLP overload protection
 - SCP short circuit protection
- warranty – 2 year from the production date

1. Technical description.

1.1. General description.



The **EXT-POE3 extender** is a device designed to increase the PoE and Ethernet range by additional 100 meters using UTP Cat. 5/5e cable. The Extender can be powered using a PoE switch or another PoE-compliant device (PoE IN input). The output voltage and data are available at the PoE OUT1, PoE OUT2, PoE OUT3 outputs designed for connecting cameras or other IP devices using PoE power supply. The maximum load current is 0,6A (see Tab.1). The PoE OUT1, PoE OUT2, PoE OUT3 ports are supplied over 4/5 (+) and 7/8 (-) pairs, which, according to the Ethernet standard, are not used for data transmission (data transmission uses 1/2 and 3/6 twisted pairs).

1.2. Technical parameters.

Tabla 1. Technical parameters

Supply voltage	compliant with 802.3af/at / (44 ÷ 57VDC)
Current consumption by PSU systems	<30mA
Module power	30W max.
Output voltage	applying power
Output current	0,6A ports PoE OUT1/2, 0,3A port PoE OUT3 ($\Sigma=0,6A$ max.)
The PoE IN input power supply pairs	1/2 (+) 3/6(-) 4/5 (+) 7/8 (-)
The PoE OUT1/2 output power supply pairs	4/5 (+) 7/8 (-)
Overload protection OLP	PoE OUT1/2: 150% ÷ 200% of nominal output current, automatic recovery
Short circuit protection SCP	PoE OUT3: PTC 0,5A, polymer fuse
LED operation indication	Yellow LAN LED - indicating the LAN connection status Green PoE LED - presence of input/output voltage
Operation conditions	II environmental class, -10°C÷+40°C
Dimensions (LxWxH)	81 x 77 x 26 [mm]
Mounting	mounting screws x2 (holes Ø 6mm)
Connectors: - IN/OUT PoE	RJ45 8P8C
Net/gross weight	0,11kg / 0,15kg
Storage temperature	-20°C...+60°C
Declarations, warranty	CE, RoHS, 2 years from the production date

Table 2. Description of components and connectors.

Element no. [fig. 1]	Description
[1]	The PoE IN-input port
[2]	LED LAN (yellow)
[3]	LED PoE (green)
[4]	PoE OUT 1/2 - output ports compliant with IEEE802.3af/at
[5]	PoE OUT 3 – output port (passive)
[6]	Power ON/OFF – PoE OUT1 /2 power supply jumper OUTx  PoE supply OUTx  absence of PoE supply
[7]	The choice between the IEEE 802.3 af/at standard

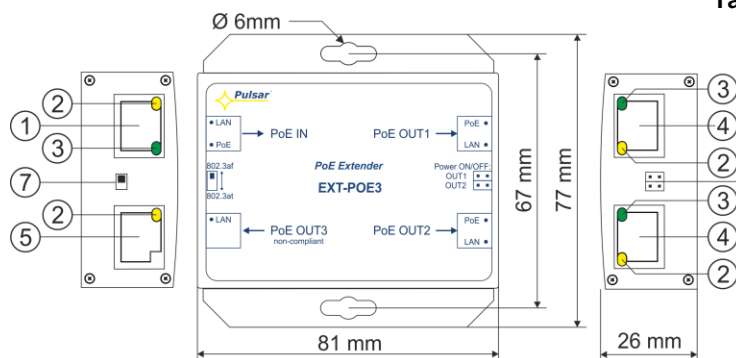
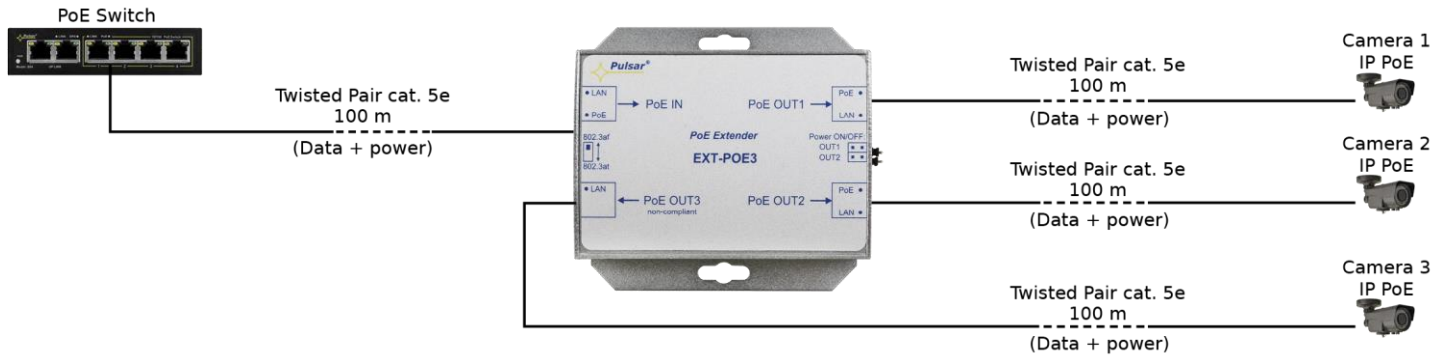


Fig.1. A schematic drawing of the device.

Connection schemes:



Connection of three IP PoE cameras and extension of the range for another 100m

2. Installation.

2.1. Requirements.

The extender should be mounted by a qualified installer, holding relevant permits and licenses (applicable and required for a given country) for low-voltage installations. The device shall be mounted in confined spaces (in accordance with the 2nd environmental class) with normal air humidity (RH=90% max. without condensation) and the temperature from -10°C to +40°C.

The device is designed for a 10Mbit/s or 100Mbit/s Ethernet network (the so-called Fast Ethernet). **However, it cannot be used in 1Gbit/s networks (the so-called Gigabit Ethernet).** The minimum category cable recommended to connect the extender and the network device is UTP Cat. 5 cable.

2.2. Installation procedure.

Connect the network cables (Ethernet) to the RJ45 connectors marked PoE IN and PoE OUT. Connect the network cables (Ethernet + Power) from PoE Switch to PoE-IN RJ45 connector, taking into account current efficiency. Connect the devices compatible with the IEEE802.3af/at standard, e.g. IP cameras, to the PoE OUT 1/2 ports. All devices using the PoE power with a voltage in the range of 44 ÷ 57VDC can be connected to the PoE OUT3 port.

3. Maintenance.

Any and all maintenance operations may be performed following the disconnection of the power supply from the power network. The power supply does not require any specific maintenance procedures, however, in the case of significant level of dust, it should be cleaned with compressed air.



WEEE MARK

According to the EU WEE Directive – It is required not to dispose of electric or electronic waste as unsorted municipal waste and to collect such WEEE separately.

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