Pulsar®

EXT-POEG5
v1.0
Extender EXT-POEG5

Edition: 1 from 18.08.2023
Supersedes edition: ---------

EN

Equipment features:

- Voltage adjustment range 48 – 57 V DC
- Power supply from PoE switch
- PoE input: PoE IN - compliant with IEEE802.3af/at/bt
- PoE output PoE OUT - compliant with IEEE802.3af
- Increases Ethernet and PoE power range by 100 meters
- Supports 10/100/1000 Mb/s networks

- LED optical signalization
- Additional mounting elements
- Protections:
  - surge protection
  - OCP overload protection
  - SCP short circuit protection
- Warranty – 2 years

1. Technical description.

1.1. General description.

EXT-POEG5 extender is a device designed to extend transmission distance of PoE power and Ethernet data via UTP cat. 5e twisted pair cable to next 100m. Extender is powered from PoE switch (PoE PD INPUT), or from power supply unit via DC power socket. Output voltage and data are available at PoE OUT outputs, to which cameras or other IP devices using PoE power should be connected. Maximum load current is **0.6 A/port - a total is 0.8 A** (when supplied via PoE PD INPUT) or **1.15 A** (when supplied via DC connector). Device is designed for operation in 10/100/1000 Mb/s networks.

1.2. Specifications.

Table 1. Specifications

Ports	5 ports 10/100/1000 Mb/s, with auto negotiation of connection speed, auto MDI/MDIX crossover
Power supply	Compliant with 802.3af/at/bt, or external power supply (48 – 57 V DC)
Current consumption by module systems	<20mA
Module power (PoE PD INPUT)	40 W max.
Module power (DC IN)	60 W max.
Output voltage	Compliant with IEEE802.3af/at
Output current	**0,6 A/ port (∑=0,8 A** – PD INPUT; **1,15 A** – DC IN)
PoE IN input power supply pairs	**1/2 (+) 3/6(-)** **4/5 (+) 7/8 (-)**
PoE OUT 1/2 output power supply pairs	**1/2 (+) 3/6(-)**
Overload protection (OLP) Short circuit protection (SCP)	105% – 150% of power supply, automatic recovery
LED operation indication	LED **LAN** (yellow) – indicating the LAN connection status LED **PoE** (green) – presence of input/output voltage
Operating conditions	-10ºC – +40ºC
Dimensions	W=118, H=28, D=85 [+/- 2mm]
Additional accessories	Surface mounting sheets
Connectors: - Input/output PoE - DC IN	RJ45 8P8C Outlet DC 5.5/2.1
Net/gross weight	0,25 / 0,32 [kg]
Storage temperature	-20ºC...+60ºC
Declarations, warranty	CE, RoHS, 2 years

1.3. Description of components and connectors.

Table 1. (see Fig.2)

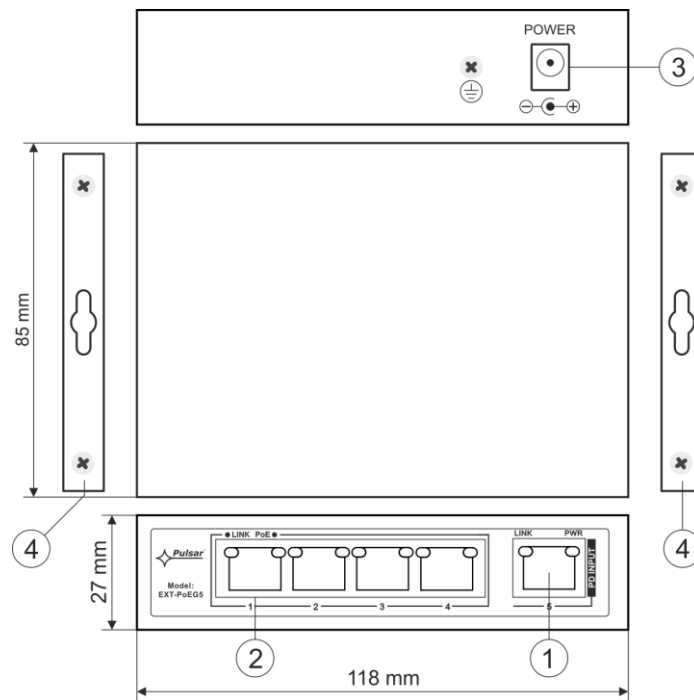| Element no. [Fig. 2]	Description
[1]	1 x PoE port (PD INPUT)
[2]	4 x PoE port (OUT)
[3]	DC power socket
[4]	Additional mounting elements

Fig. 2. View of extender.

2. Installation.

2.1. Requirements.

Extenders is to be mounted by a qualified installer, holding relevant permits and licenses (applicable and required for a given country) for low-voltage installations. Unit should be mounted in confined spaces, in accordance, with normal relative humidity (RH=90% maximum, without condensing) and temperature from -10°C to +40°C.

Device is designed for operation in 10 Mbit/s, 100 Mbit/s or 1000 Mbit/s (so-called **Gigabit Ethernet**) Ethernet networks. Connections between the extender and the network device must be made using a min. UTP Cat.5e.

2.2. Installation procedure.

Connect network (Ethernet) cables to RJ45 connectors. When powering the device via the PoE connector, connect an RJ45 cable from a PoE-compatible Ethernet switch to the PD INPUT socket, taking into account the current capacity of the output port. In case of power supply from an external power supply unit, the PD INPUT connector can be used to connect an additional device (it will not be powered via PoE). Connect devices such as IP cameras to the remaining sockets.

3. Maintenance.

Any and all maintenance operations may be performed following the disconnection of the PSU from the power supply network. The unit requires no special maintenance.

Example of connection:
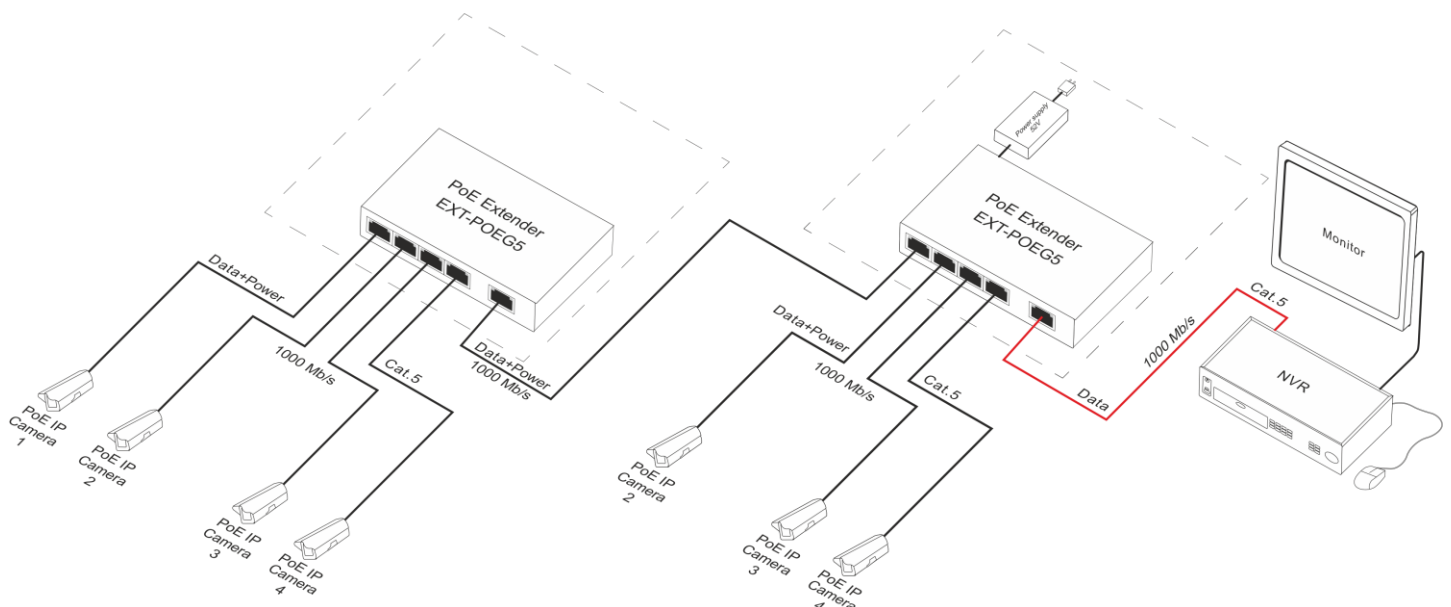
WEEE LABEL

Waste electrical and electronic equipment must not be disposed of with normal household waste. According to the European Union WEEE Directive, waste electrical and electronic equipment should be disposed of separately from normal household waste.

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