

xPoE-4-11A-HS

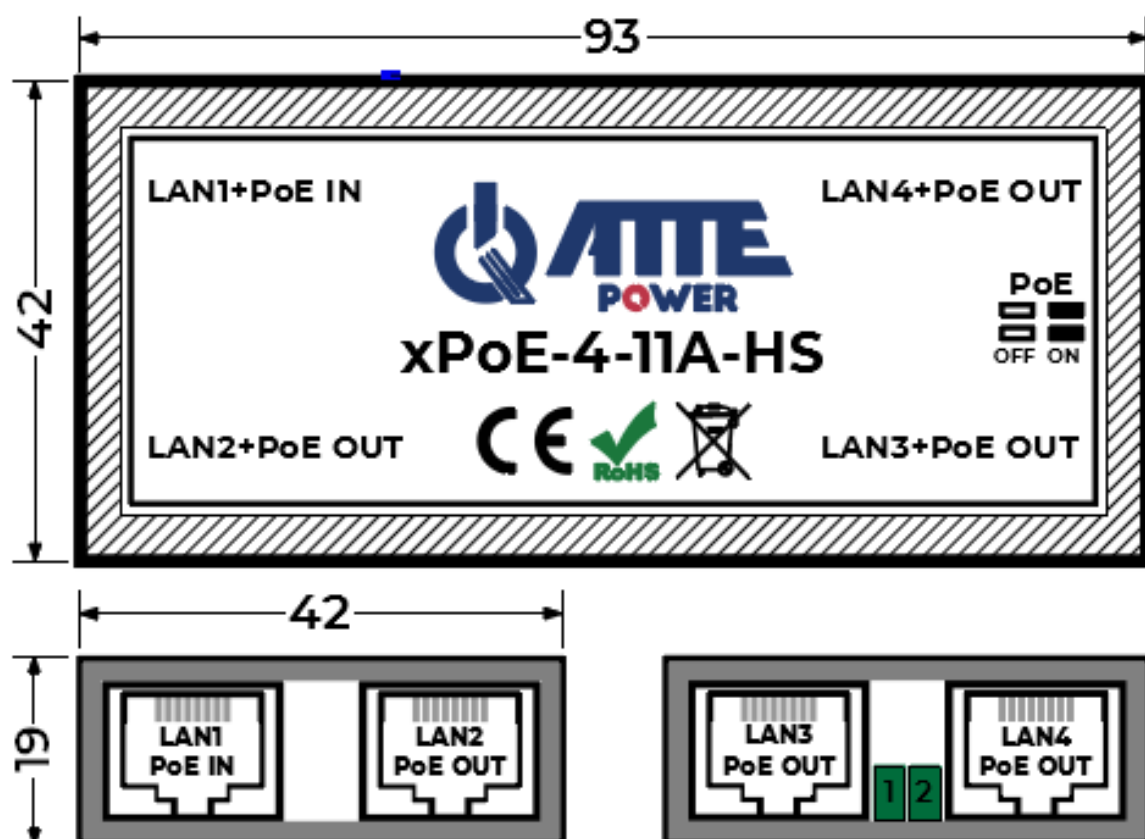
Switch PoE 4 ports extender 10/100Mbps

INSTRUCTION MANUAL

xPoE-4-11A-HS is an unmanaged PoE network switch operating as a LAN network extender (repeater) and PoE power supply. The device allows you to extend the network signal and transfers the PoE power supply to selected outputs.

Most often used as an extender the network on sections longer than 100m. In addition, it is ideally suited as an active splitter in situations where on one UTP cable we need to run several PoE receivers (e.g. IP cameras), or when an additional network branch is necessary.

Unmanaged PoE switches xPoE series are designed to operate with IP cameras and other network devices powered in the PoE 802.3at / af and PoE PASSIVE standard. The housing provides insulation and small dimensions of the device. This allows easy installation of the device in limited space.



General view of the device

Technical Specification

LAN Ports	4 RJ45 ports 10/100Mbps (auto MDI-MDIX, auto-negotiation) 1 x LAN+PoE IN 3 x LAN+PoE OUT
Ports Functions	LAN 1: PoE IN (switch power supply) - PASSIVE (up to 40W) or 802.3at (up to 30W) or 802.3af (up to 15,4W) PoE PINOUT - 1,2 (V+/-) 3,6 (V+/-) and/or 4,5 (V+/-) 7,8 (V+/-)
	LAN 2: PoE OUT (to PoE powered devices or another extender) - PASSIVE (up to 40W @55V when powered from LAN1, up to 70W @55V when powered from LAN3...LAN4), 802.3af (up to 15,4W), 802.3at (up to 30W) PoE PINOUT - 1,2 (V-) 3,6 (V+) and 4,5 (V+) 7,8 (V-)
	LAN 3...LAN 4: PoE IN (switch power supply) - PASSIVE (up to 70W @55V) PoE OUT (to PoE powered devices) - PASSIVE (up to 40W @55V when powered from LAN1, up to 70W @55V when powered from LAN3...LAN4), 802.3af (up to 15,4W), 802.3at (up to 30W) PoE PINOUT - 4,5 (V+) 7,8 (V-)
	LAN2...LAN4 Sequential activation of PoE outputs: LAN2 ... LAN3 ... LAN4 (during startup or after short-circuit)
Ports Protection	LAN 1 ... LAN 4 Surge protection
Indication	LAN 1 0,75A overload protection with auto recovery
	RJ45 sockets LED backlight: LAN 1 (white) - device powered from LAN 1 port LAN 2 ... LAN 4 (red) - PoE voltage presence LAN 1 ... LAN 4 (green) - link and data transmission
PoE (at/af) Selection	LED between LAN 1, LAN 2 ports (red) - device powered by 802.3at compliant PSE LAN1 (PoE IN) - automatic, 802.3at by default if supported by PSE
Power Control	LAN 3 - JP1 LAN 4 - JP2
	PoE OFF - jumper removed, red LED backlight disabled PoE ON - jumper installed, red LED backlight enabled
Power Supply Voltage	LAN1: 35 ... 56 VDC (Vin)
	LAN2 ... LAN4: 12 ... 56 VDC (Vin)
Output Voltage	Vout = Vin
Operating Temperature	Caution! For 802.3at/af PoE Powered Devices Vin > 44V
Housing Construction	-25 ... +65°C
Ingress Protection Rating	Insulating polyethylene sleeve
Dimensions	IP20
Weight	93 x 42 x 19 mm
	0,05 kg

Safety Precautions

- The device is intended for installation by a qualified installer who has appropriate competences and permits and authorizations (if required for a given country) to connect (interfere with) low-voltage installations.
- The device should be installed indoors. About normal air humidity and temperature. The method of mounting the device and laying the cabling should ensure free air flow. It is recommended to use ABOX series housings, which allow for convenient installation outdoors, indoors and in RACK cabinets.
- For proper operation of the module, appropriate voltage and current capacity of the power source must be ensured.
- Any maintenance operations may only be performed after disconnecting the power supply. Under normal conditions, the device does not require any maintenance.
- In case of damage or doubts as to the correct operation of the device, stop using it immediately.
- In the case of fiber optic devices, do not look into the fiber optic port when the device is turned on. The invisible beam can damage the retina of the eye.
- Before connecting PoE PASSIVE receivers (e.g. WiFi antenna), make sure that the voltage value and polarization on the RJ45 pins of the switch or power adapter are consistent with the values allowed by the receiver.

WARNING



Before installation and during maintenance make sure that the mains voltage 230VAC is disconnected

Installation

- Mount the device in the selected location.
- Connect PoE power supply line for port LAN1+PoE.
- Connect UTP cables leading to IP devices (LAN2, LAN3).
- We recommend using the LAN2 + PoE OUT port to power the next extender (power supply on all pairs = lower cable losses)

Attention!

The total power consumed by the cameras connected to the extender (PoE receivers) may not exceed the power budget offered by the switch supplying the entire line:

- for the 802.3af standard it is approx. 13W available on the extender
- for the 802.3at standard it is approx. 25W available on the extender
- for PoE Passive it is a maximum of 40W available on the extender

Include IR illuminators - they turn on at night, significantly increasing power consumption.

Also take into account the losses in the power cable - they depend on its cross-section, length and the value of the voltage on the PoE line.

Operation Indication

- RJ45 sockets LED backlight:
- LAN 1 (white) - device powered from LAN 1 port
- LAN 2 ... LAN 4 (red) - PoE voltage presence
- LAN 1 ... LAN 4 (green) - link and data transmission
- LED between LAN 1, LAN 2 ports (red) - device powered by 802.3at compliant PSE

WEEE MARKING



This symbol on the product or on its packaging indicates that the product must not be disposed of with normal household waste. Instead such equipment must be disposed of by arranging to return it to a designated collection point for the recycling of waste electrical and electronic equipment.

