APT-3-50
3-port PoE Switch – gigabit LAN + PoE extender
10/100/1000Mbps 1xPoE IN 802.3at/af + 2xPoE OUT 802.3at/af

INSTRUCTION MANUAL

APT-3-50 is an unmanaged gigabit PoE network switch working as an extender (repeater) of the LAN network and PoE power supply. Most often used as an "active splitter" in situations when we need to run several network devices (e.g. several IP cameras) on one UTP cable or when an additional network branch is necessary.

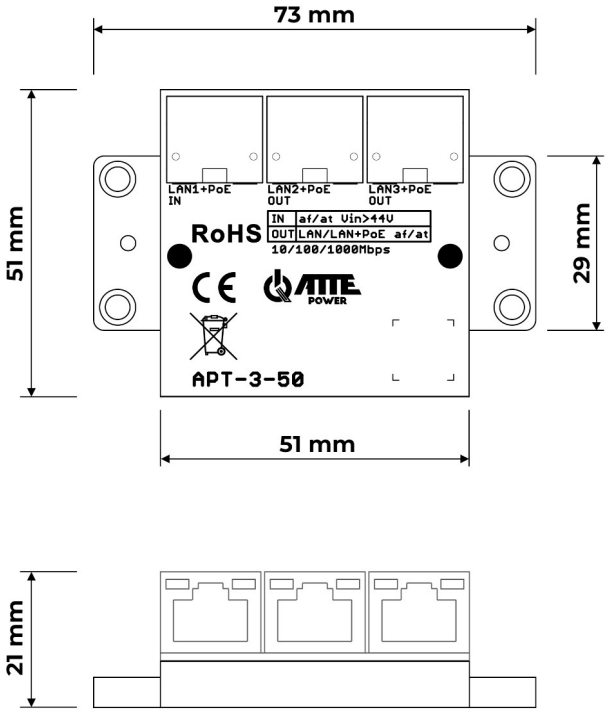
It is designed to work with any network devices, IP cameras and other devices powered by the PoE 802.3 at/af standard.

The APT (Atte Power Tree) series devices provide compatibility with the IEEE 802.3 at/af standards as PoE power receivers and IEEE 802.3 at/af on all output ports. After connecting the device to ports 2-3, the receiver is identified and, if it is a PoE-powered device, power will be turned on in the port.

All ports provide a throughput of 1Gbps, which is important for connections in a bus topology.

The device has a very small size, which allows for easy installation in small spaces.

The APT (Atte Power Tree) product series allows you to connect system elements in a tree topology. APT devices can be powered directly from PoE. Power transmitted over a single UTP cable allows you to power several IP cameras.



General view of the device

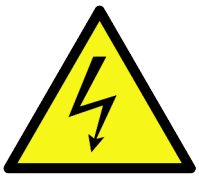
Technical Specification

LAN Ports	3 ports RJ45 10/100/1000Mbps (auto MDI-MDIX,) 1 x LAN+PoE IN 2 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 15W) LAN 2 – LAN 3 LAN or LAN + PoE Out 10/100/1000Mbps 802.3 at/af RJ45 PINS PoE: 1,2 (V-) 3,6 (V+) 4,5 (V+) 7,8 (V-)
PoE (at/af) Selection	LAN1 (PoE IN): automatic
Power Supply Voltage	LAN1 PoE IN: 44 ... 58 V
Output Voltage	Vout = Vin
Power consumption	0,3 W
Ports Protection	LAN 1 ... LAN 3: Surge protection LAN 2 ... LAN 3: Overload protection with auto recovery 0,7A
Indication	LED indication in RJ45 connectors:: LAN 1 (yellow) - Power LAN 2 ... LAN 3 (yellow) - PoE power OUT LAN 1 ... LAN 3 (green) - link and data transmission
Housing Construction	Universal mounting base, mounting studs, TH35 rail with additional bracket, can be screwed to flat surface
Operating Temperature	-25°C...+65°C
Ingress Protection Rating	IP20
Dimensions	51 x 51(73) x 21 mm
Weight	0,026 kg

Safety Precautions

- The installation and wiring must be performed by a competent engineer. For permanently connected equipment, a readily accessible disconnect device must be incorporated in the fixed wiring. The device must be connected to the mains supply 230 VAC 50 Hz via a specified fused connection outlet.
- Despite the fact that the enclosure of the device has a high degree of protection, it is recommended that the device should be mounted in places protected from direct influence of atmospheric factors, in particular against rain and direct sunlight.
- Since the power supply does not have a switch to isolate the mains supply, the installer is responsible for notifying the user of the means of isolating the mains supply from the device.
- When replacing fuses, use original or compatible types. The exact parameters of the fuses can be found on the inside of the device cover.

WARNING



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

Installation

- Install the device in the selected place
- Connect the PoE power supply line (44 ... 58VDC) to the PoE IN port.
- Connect UTP cables to the PoE OUT ports leading to the IP LAN or LAN+PoE receivers

Attention!

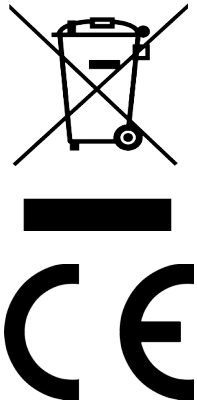
- The total power consumed by the cameras (PoE receivers) connected to the extender cannot exceed the power budget offered by the switch powering the entire line:
  - for the 802.3af standard, it is approximately 13W available on the extender
  - for the 802.3at standard, it is approximately 25W available on the extender
  - for PoE Passive standard, 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 losses in the power cable - they depend on its cross-section, length and voltage value on the PoE line.

Operation Indication

LED indication in RJ45 connectors::

- LAN 1 (yellow) - Power
- LAN 2 ... LAN 3 (yellow) - PoE power OUT
- LAN 1 ... LAN 3 (green) - link and data transmission

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.