

IPM-90-550

PoE Power supply/Midspan PoE 55V 90W 1 channel 10/100/1000Mbps with display

INSTRUCTION MANUAL

The IPM-90-550 is used to power PoE-compliant devices in LAN networks. Placed between a switch that does not have PoE power (or does not have a sufficient power budget) and network devices (e.g. cameras, access points, extenders), it enables simultaneous power and data transmission to PoE IP devices using a single UTP cable at 10/100/1000Mbps.

Power over Ethernet (PoE) is an easy-to-install, fast and cost-effective solution for powering network products. There is no need to replace existing Ethernet switches and cabling.

It supports all popular power supply standards PoE, PoE+, Hi Poe in 3 operating modes selectable from a handy menu. Viewing of the current operating status and operation of the menu functions takes place on the built-in display.

It provides power using both data pairs in UTP (1/2 and 3/6) and after free pairs (4/5 and 7/8) depending on how the receiver is identified. This allows maximum use to be made of the available cabling and powering of demanding receivers.

In combination with the APT series, it enables us to create extensive installations in a tree topology using only UTP cables without 230VAC power supply.

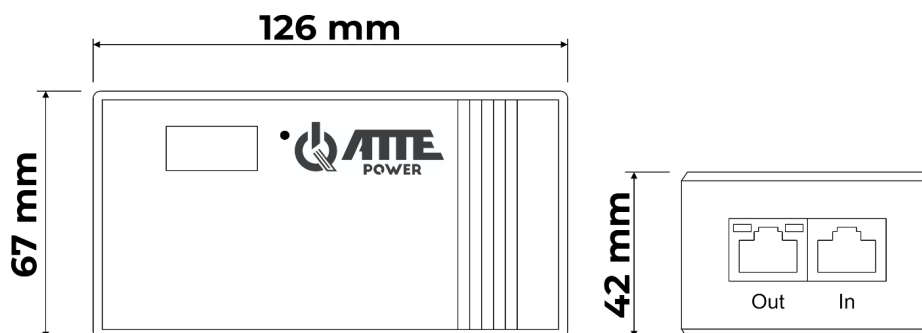
Supported PoE standards:

- Standard 802.3 af / at / bt60 / bt90
- PoH mode equivalent to PoE+ and HiPoe for demanding receivers outside the standard
- Passive PoE with autonegotiation (e.g. all ATTE ecosystem devices of the xPoE-xx series, WIFI AP distribution points)

Changing the operating mode is only possible during start-up.

Notes:

The unit is supplied with 230V mains voltage and does not offer buffer power backup. A power cable is included in the scope of supply. The unit is rated for continuous operation at 90W with proper cooling during operation. It does not have an on/off switch, so adequate protection must be provided and the user must be instructed on how to switch off.



General view of the device

ATTE Power Sp. z o. o.

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Technical Specification

LAN Ports	2x RJ45 ports 10/100/1000Mbps 1x LAN IN 1x LAN+POE OUT
	LAN IN Ethernet input 10/100/1000Mbps
Funkcje portów	LAN + PoE OUT 10/100/1000Mbps Output LAN + PoE 802.3af/at/bt or PoE Passive PoE Pinout: 1,2 (V-) 3,6 (V+) 4,5 (V+) 7,8 (V-) Standard 802.3 af / at / bt60 / bt90
Operating Modes	PoH mode equivalent to PoE+ and HiPoE for demanding receivers outside the standard
Mode Configuration	Passive PoE with autonegotiation (e.g. all ATTE ecosystem devices of the xPoE-xx series, WIFI AP distribution points) Button next to the display
Input Voltage	190 ... 260 VAC, 50 Hz
Output Voltage	55 VDC +/-2%
Power	90 W
Efficiency	96% @90 W
Ports Protection	LAN + PoE OUT Overvoltage protection with auto-recovery Overload protection with auto-recovery Thermal protection at 70°C AC_IN Overvoltage protections Overload protection
Indication	Information on display: -Current power consumption(W) -Maximum instantaneous power consumption since last restart (W) -PoE supply voltage (V DC) -PoE standard in which the receiver is identified -Number of pairs on which power is send (2P or 4P) -Operating temperature LED in RJ45 connectors: -LAN+PoE OUT (yellow) RJ45- presence of PoE -LAN+PoE OUT (green) RJ45 – link and data transmission
Housing Construction	Dedicated plastic casing
Operating Temperature	-10°C...+50°C
Ingress Protection Rating	IP20
Dimensions	67 x 126 x 42 mm
Weight	0,194kg

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.

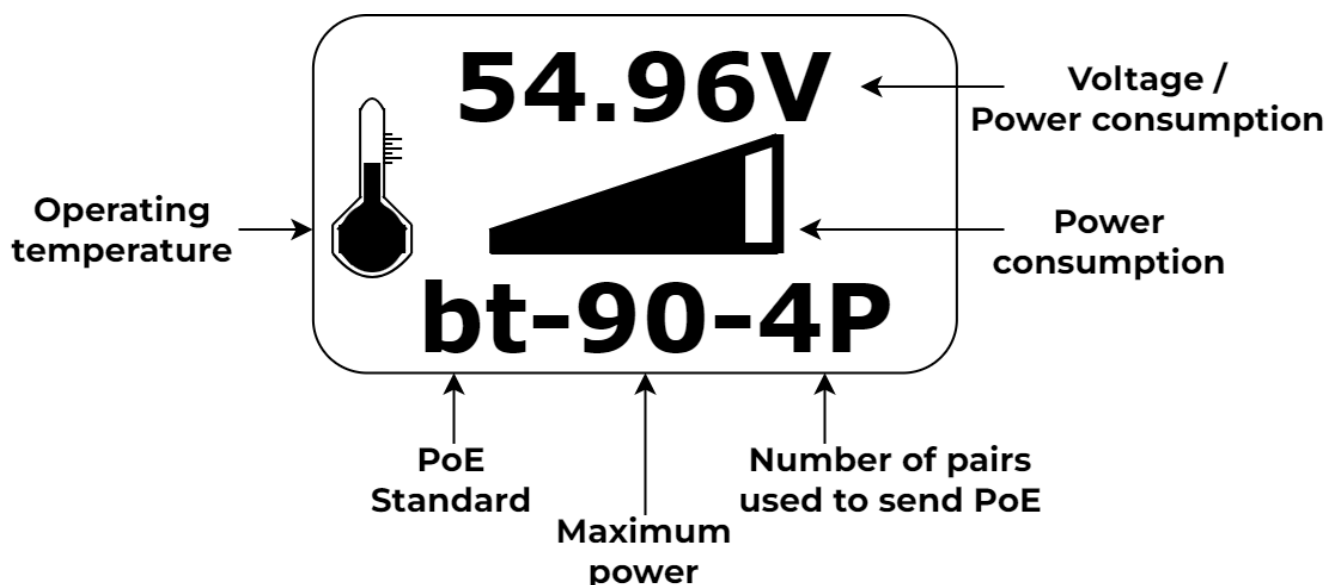
WARNING



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

Installation

- Mount the device in the desired location.
- Connect an RJ45 network cable to the LAN port
- Connect the 230VAC power supply to the AC_IN connector using the supplied cable
- Changing the operating mode is only possible during start-up
- Select the desired operating mode by pressing the button next to the display.
- Confirm the selection of the standard by holding down the button for a few seconds
- Wait for the device until it restarts itself and saves up new settings, then it will enter Standby mode
- Connect UTP cable to LAN+PoE OUT (connector with LEDs)
- Ensure free circulation of air at the installation site



Operation Indication

Information on display:

- Current power consumption (W)
- Maximum instantaneous power consumption since last restart (W)
- PoE supply voltage (V DC)
- PoE standard in which the receiver is identified
- Number of pairs on which power is sent (2P or 4P)
- Operating temperature

LED in RJ45 connectors:

- LAN+PoE OUT (yellow) RJ45 - presence of PoE
- LAN+PoE OUT (green) RJ45 - 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.

