AEPI-1-50
Adapter PoE PASSIVE 1 channel, Gigabit 10/100/1000 Mbps + PoE, Vout=Vin, connectors RJ45/RJ45

INSTRUCTION MANUAL

AEPI-1-50 is a gigabit adapter (PoE injector) designed to power CCTV devices operating in PoE 802.3at/af and PoE PASSIVE standards.

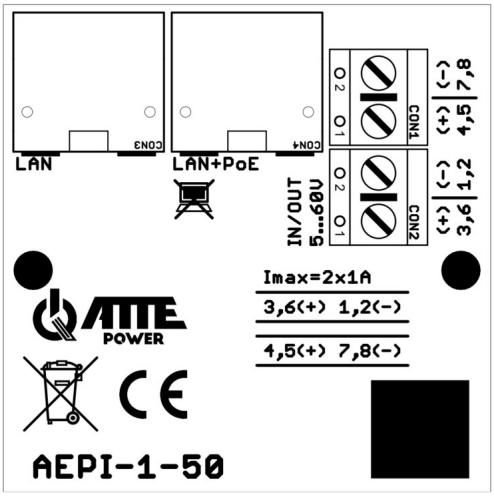
PoE power is available on one of the RJ-45 connectors (described as LAN+PoE). The other RJ-45 connector is used to connect to the LAN.

Selecting the appropriate connector on the terminal allows you to choose which pairs of twisted-pair UTP cable will be used to transmit power in parallel with data (power to the receiver on the selected 2 pairs or on all 4 pairs). Independent connection terminals assigned to specific pairs of twisted-pair UTP cable allow two different voltage levels to be transmitted between two AEPI-1-50 devices over a single cable while maintaining transmission speeds of up to 1000 Mbps.

Before connecting the receiver, make sure what is the correct PoE voltage level and on which pairs the power supply should be applied.

Applying the wrong supply voltage or selecting the wrong supply pairs can result in unstable operation or, in some cases, damage to the device.

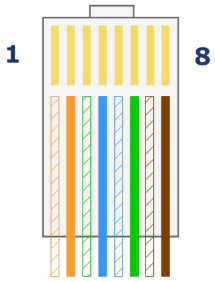
The small size allows the device to be built in any housing, but the most convenient method of installation is the dedicated ABOX series housings and mounting pre-drilled plates in a 10.8mm raster. The system solution allows for vertical or horizontal installation of selected devices in any open part of the housing or mounting plate.



General view of the device

Technical Specification

LAN Ports	1 port 10/100/1000Mbps PoE Passive
Ports Functions	802.3af - do 15,4W (Vin > 44VDC) 802.3at - do 30W (Vin > 44VDC) PoE PASSIVE - do 90W (Vin > 55VDC)
Power Supply Voltage	10...56VDC
Output Volatage for PoE Devices	Vout = Vin
Ports Protection	None - external protection from connected inverter or power supply
Operating Temperature	-25°C...+50°C
Housing Construction	Built-in module
Assembly	Snap-on spacers, mounting holes in 10.8 mm pitch Optional mounting on TH35 rail Mounting holes to screw to any surface
Ingress Protection Rating	IP20
Dimensions, Weight	51 x 73 x 23 mm, 0,05kg



PIN	COLOR
1	orange/white
2	orange
3	green/white
4	blue
5	blue/white
6	green
7	brown/white
8	brown

standard T568B

The correct way to connect the wires in an Rj45 plug (standard T568B)

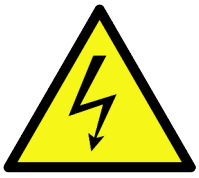
PIN	LAN 10/100/1000 Mbps	LAN 10/100/1000 Mbps + PoE	LAN 10/100/1000 Mbps + PoE	LAN 10/100/1000 Mbps + PoE
1	TP1 +	TP1 + DC (-)	TP1 + DC (-)	TP1 +
2	TP1 -	TP1 - DC (-)	TP1 - DC (-)	TP1 -
3	TP2 +	TP2 + DC (+)	TP2 + DC (+)	TP2 +
4	TP3 -	TP3 - DC (+)	TP3 -	TP3 - DC (+)
5	TP3 +	TP3 + DC (+)	TP3 +	TP3 + DC (+)
6	TP2 -	TP2 - DC (+)	TP2 - DC (+)	TP2 -
7	TP4 +	TP4 + DC (-)	TP4 +	TP4 + DC (-)
8	TP4 -	TP4 - DC (-)	TP4 -	TP4 - DC (-)

The use of pins in the Rj45 plug depending on how the power supply is connected

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.

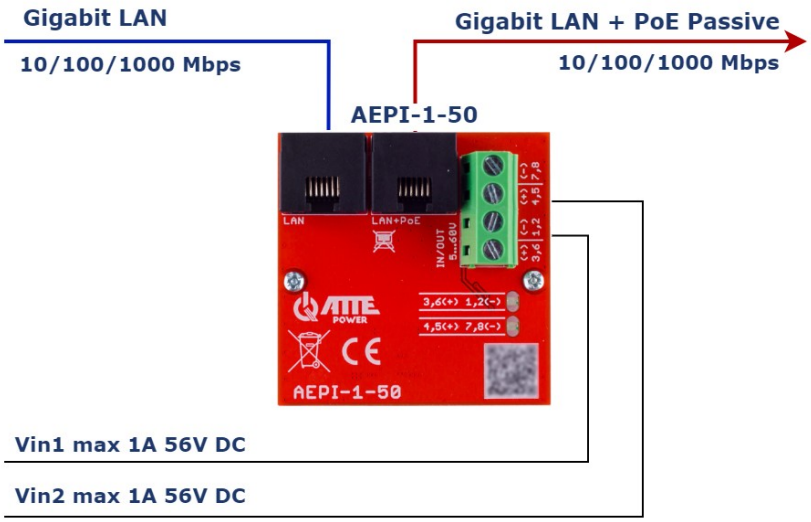
WARNING



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

Installation

- Mount the device in the desired location.
- Connect an RJ45 network cable to the LAN port
- Connect the DC power supply to the Vin screw connector maintaining the correct polarity.
- Selecting the appropriate connector on the terminal allows you to choose which pairs of twisted-pair UTP cable will be used to transmit power in parallel with the data (power to the receiver on the selected 2 pairs or on all 4 pairs).
- Connect a UTP cable (RJ45 standard T568B) to the LAN+PWR port leading to the IP PoE receiver.



Operation Indication

- LED - presence of PoE power on corresponding pairs (3,6(+) 1,2(-) and/or 4,5(+) 7,8(-))

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.