

SDIP-20-AD0

Gigabit Ethernet PoE step-down adapter

Vout 5V/12V/24V, Pout max 20W 802.3at/af oraz PASSIVE

INSTRUCTION MANUAL

The SDIP-20-AD0 adapter is designed to power additional devices via the PoE line or to reduce the PoE voltage present in the RJ45 plug at 10/100/1000Mbps bandwidth.

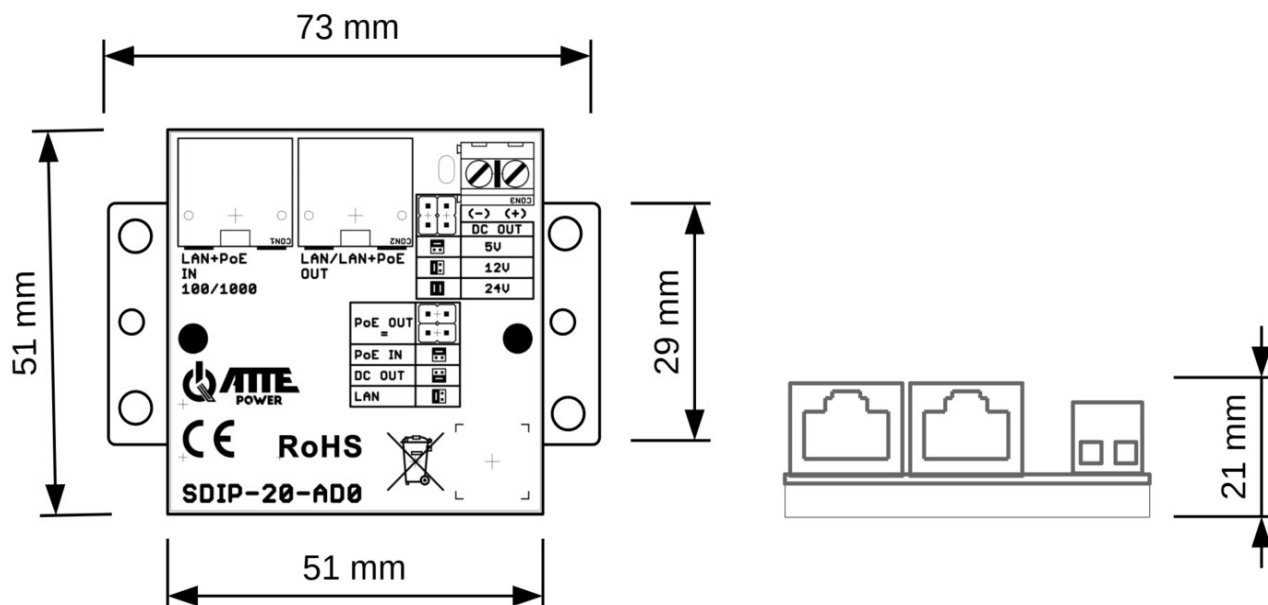
Appropriate combinations of jumpers allow you to choose the right configuration of POE power supply at the output as well as the output voltage level from the converter.

One set of jumpers allows you to select the DC output voltage of the inverter at 5V, 12V or 24V.

The second set of jumpers is responsible for configuring the power available at the LAN output port. It allows you to transfer PoE power from the input to the output, lower the PoE voltage to the jumper setting on the inverter, or turn off the power and leave only LAN transmission.

The adapter is designed to work with a PoE switch operating in 802.3at/af or PoE PASSIVE standard.

The device has a very small size which allows easy installation in small spaces. Additional mounting studs or an adapter allow mounting in ABOX enclosures or on a TH35 rail.

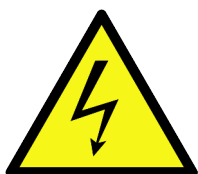


General view of the device

Technical Specification

Supported PoE IN power supplies	802.3 at/af or PASSIVE PoE RJ45 Port 10/100/1000Mbps
Connectors	1x RJ45 Port LAN POE IN 10/100/1000Mbps 802.3 at/af or PASSIVE PoE 1x RJ45 Port LAN or LAN+ PASSIVE POE OUT 10/100/1000Mbps DC OUT connection terminal - Output voltage
	DC OUT 5 VDC / 12 VDC / 24 VDC +/-5% (set by jumper)
Output Voltage	Passive PoE OUT none / 5 VDC / 12 VDC / 24 VDC +/-5% (set by jumper) PIN PoE: 4,5 (V+) 7,8 (V-) ONLY PassivePoE No automatic identification of the 802.3 at/af standard
Output Power DC OUT	Max. 20W
Input Voltage	44 ... 56 VDC (PoE) PINY PoE: 1,2 (V-) 3,6 (V+) 4,5 (V+) 7,8 (V-)
Ports Protection	Inverter overload protection 2A with auto return
Indication	LED red - presence of output voltage
Housing Construction	Universal mounting base, mounting studs, TH35 rail with additional bracket, can be screwed to flat surface
Ingress Protection Rating	IP20
Operating Temperature	-25 ... +50°C
Dimensions	51 x 51 (73)x 21 mm
Weight	0,031 kg

WARNING






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

Installation




- Using the jumpers, select the appropriate power configuration (see the table at the end of the manual or on the module label for details).
- Mount the device and attach the UTP cables. RJ-45 connectors on the cable should be made according to the T568B standard.
- Connect the DC plug to the socket of the powered device. If all connections have been made correctly then the device (such as a camera) should be powered.
- The total power consumed by the receivers connected to the adapter must not exceed the power budget offered by the power switch.
- Before connecting the receiver, make sure what the correct PoE voltage level is and on which pairs power should be given.
- Applying the wrong supply voltage, wrong polarity, or selecting the wrong supply pairs can result in unstable operation or, in some cases, damage to the device.

Jumpers configuration

Configuration of inverter output voltage

Voltage		Description
DC OUT		5 V Inverter output voltage 5 V max 10W
DC OUT		12 V Inverter output voltage 12V max 20W
DC OUT		24 V Inverter output voltage 24V max 20W

Configuration of presence and output voltage value of LAN / LAN + PoE Out connector

PoE OUT		Description
PoE OUT		PoE IN PoE input voltage transferred to output
PoE OUT		DC OUT PoE output voltage the same as the voltage set in the DC OUT converter
PoE OUT		LAN No PoE power - only LAN present

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.

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.

