

IPB-5-10A-OF

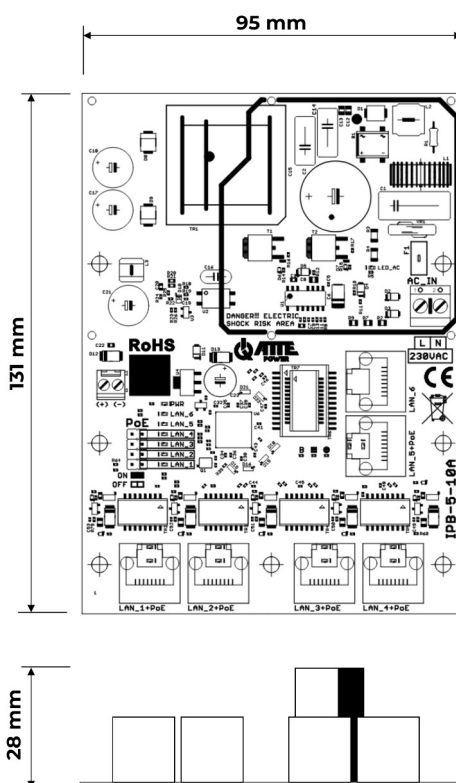
**PoE switch 10/100Mbps 5xPoE + 1xUplink
with 55V 90W mains power supply - built-in module
(PoE power supply on all pairs)**

INSTRUCTION MANUAL

IPB-5-10A-OF PoE switch is a convenient solution for powering IP cameras from one central point. The device has been designed to work with IP cameras, as well as other network devices operating in the PoE 802.3af/at and PoE PASSIVE standards.

PoE power is transmitted over all pairs of cable which has the benefit of reducing voltage drops. Combined with the power supply voltage increased to 55VDC, this allows its correct value to be maintained at the end of longer cables for a wider power range of PoE receivers. The above properties are directly applicable when extending or branching lines using active PoE IP extenders.

The OF (Open Frame) design allows the device to be installed in any housing, but the most convenient method of installation is dedicated ABOX series housings and mounting plates equipped with system holes in a 10.8 mm pitch. It is compatible with the spacing of mounting holes of built-in modules. The system solution allows for vertical or horizontal installation of selected devices in any perforated part of the housing or mounting plate.



General view of the device

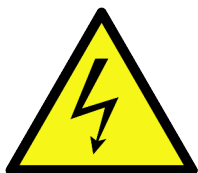
Technical Specification

LAN Ports	6 RJ45 ports 10/100Mbps (auto MDI-MDIX, auto-negotiation) 5 x PoE, 1 x UPLINK
Ports Functions	LAN 1 ... LAN 5: PoE OUT (to PoE powered devices): PASSIVE (up to 40W), 802.3af (up to 15,4W), 802.3at (up to 30W) PoE PINOUT: 1,2 (V-) 3,6 (V+) 4,5 (V+) 7,8 (V-) LAN6: UPLINK (without PoE) CON2 (+) (-): DC OUT: 55VDC CON1 AC_IN: AC IN: 230VAC
Output Voltage	55 VDC +/- 2%
Efficiency	93% @90W
Power	90 W
Input Voltage	190 ... 260 VAC, 50 Hz
Power Supply Input Protection	T3,15 A (Slow Blow Fuse) Surge protection
Power Supply Output Protection	3 A Overload electronic protection (after short circuit it may be necessary to restart power supply) Surge protection
Power Supply Thermal Protection	TSD (thermal shutdown) 130°C - power supply restart required
Ports Protection	LAN 1 ... LAN 6, Vin Surge protection LAN 1...LAN 5 0,75A @25°C, 0,45A @50°C Short circuit protection (power supply restart needed)
Indication	LED_AC (white) - presence of mains voltage LED_PWR (white) - presence of output voltage LED LAN 1 ... LAN 6 (green) - link and data transmission LED in RJ45 connectors LAN 1 ... LAN 5 (red) - presence of PoE power on the port PoE Jumpers (LAN 1 ... LAN 4)
Power Control	PoE OFF - jumper removed (LED inside RJ45 should be off) PoE ON - jumper installed (LED inside RJ45 should be on)
Housing Construction	Open Frame module
Assembly	Snap-on spacers, mounting holes in 10.8 mm pitch
Operating Temperature	-25 ... +50°C
Dimensions	95 x 131 x 28 mm
Weight	0,14 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

- Mount the device at the desired location and connect the connecting leads.
- Connect the 230VAC power cables to the L | N terminals of the AC_IN screw terminal strip.
- UTP cables connecting the switch to network devices and PoE receivers should be terminated on both sides with **RJ-45 (8P8C)** connectors in **T568B** standard.
- To the ports **LAN_1+PoE ... LAN_5+PoE** connect **PoE receivers** e.g. IP PoE cameras. The PoE receivers must be compatible with the technical data table of the switch, i.e:
 - support the 802.3af or 802.3at standard
 - support the PoE Passive 55VDC standard where power is transmitted over **all pairs** of cable according to the polarity shown in the technical data table (PoE PINS).
- Before connecting **LAN_1+PoE ... LAN_4+PoE ports** to network devices which do not support PoE, it is **necessary** to disconnect the power supply with the appropriate **PoE ON/OFF** jumper. If the red LED inside the port is on, the PoE power supply is present. It is not possible to disconnect the PoE power supply on port **LAN_5+PoE**.
- Connect a network device that does not require PoE power e.g. a DVR to the **LAN_6** port.
- Switch on the 230VAC power supply.
- Check the operation of all PoE receivers connected to the switch.

Operation Indication

- LED_AC (white) - presence of mains voltage
- LED PWR (white) - presence of output voltage
- LED LAN 1 ... LAN 6 (green) - link and data transmission
- LED in RJ45 connectors LAN 1 ... LAN 5 (red) - presence of PoE power on the port

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.

