

IP-16-20-R5U0

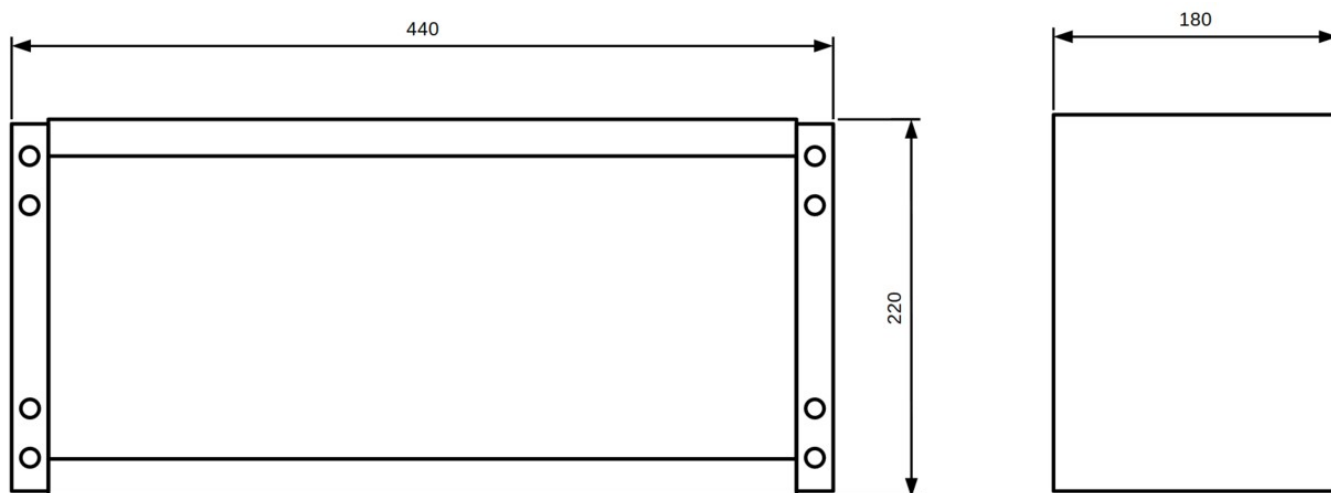
PoE kit for 16 IP cameras, RACK enclosure ABOX-R5U0 with 192W power supply 16xPoE 10/100Mbps + 2xGigabit Uplink

INSTRUCTION MANUAL

IP-16-20-R5U0 is a ready-to-use kit designed to power an IP CCTV system consisting of 16 IP cameras. Electronic PoE output protection ensures continuous operation of the entire system in the event of a short circuit or overload on a single PoE port, and automatic voltage restoration after the failure has been resolved. The device is used in systems requiring increased network bandwidth, such as 4K Ultra HD CCTV monitoring.

Kits with PoE switches are designed to work with IP cameras and other network devices powered by PoE 802.3af/at and PoE PASSIVE standards.

The device is closed in a housing adapted for installation in a RACK telecommunication cabinet. The design enables installation in one device housing, together with buffer power supply and batteries. The housing has holes in a 10.8mm raster. It is compatible with the spacing of the mounting holes of the built-in modules. The system solution allows for vertical or horizontal installation of selected devices in any open part of the housing.



General view of the device

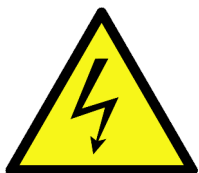
Technical Specification

LAN Ports	18 RJ45 ports: 16 x PoE 10/100Mbps 2 x Gigabit UpLink
Ports functions	xPoE-10-20A-OF LAN 1 ... LAN 8: PoE OUTPUT – for passive PoE devices (up to 40W) and 802.3af (up to 15.4W), 802.3at (up to 30W) xPoE-10-20A-OF LAN G1, LAN G2: UPLINK Gigabit (without PoE)
Output PoE voltage	48 VDC +/- 2%
Power	2 x 96 W
Efficiency	92% @180 W
Input voltage	190 ... 260 VAC, 50 Hz
Power supply input protection	Slow-blow fuse 3,15 A Surge protection
Power supply output protection	Electronic overload protection at 3 A Electronic short-circuit protection (a power supply restart may be required after a short-circuit) Surge protection
Port protection	LAN 1 ... LAN 8, Vin: Surge protection LAN 1 ... LAN 8: Overload protection 0.9 A, fast-acting with automatic reset
Status indication	APS-90-480-OF: LED_AC (yellow) – mains voltage present LED1 (green) – output voltage present
PoE control	xPoE-10-20A-OF: LEDs in connectors LAN 1 ... LAN 8 – PoE present xPoE-10-20A-OF: PoE ON/OFF dip switch - 1 ... 8 positions (LAN 1 ... LAN 8) PoE disabled for selected port – dip switch for that port set to OFF PoE enabled for selected port – dip switch for that port set to ON
Housing construction	Enclosure ABOX-R5U0 Enclosure material – 0.8 mm steel sheet, powder-coated in graphite (RAL 7024) Standard 4.8 mm perforations in a 10.8 mm grid Cable glands at the rear of the enclosure and clearance to the front cover
Assembly	RACK 19" cabinet, M6 screws (included)
Protection rating	IP20
Operating temperature	-25 ... +50°C
Dimensions	5U 180mm 440 x 220 x 180 mm
Weight	3,4 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 desired location and connect the cables.
- Connect the earthing wire to the terminal with the earthing symbol
- Disable PoE on ports intended for communication with non-PoE devices (e.g., a PC).
- Connect the 230 VAC power cables to the L and N terminals.
- Connect the UTP cables to power the PoE devices (cameras).
- Turn on 230VAC mains power
- The AC LED, LED1, and the LEDs in the RJ-45 connectors (if PoE is enabled) should be lit.
- Check that all PoE devices connected to the switch are working properly.
- Close the enclosure.

Operation Indication

APS-90-480-OF

LED_AC (yellow) - mains voltage present

LED1 (green) - output voltage present

xPoE-10-20A-OF

LED PWR (white) – power present

LED inside RJ45 connectors LAN 1 ... LAN 8 (red) – PoE present

LED LAN 1 ... LAN 8 (green) – link and data transmission

LED LAN G1 ... LAN G2 (green) – gigabit 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.

