

IPUPS-17-11-R5U0

Buffer power supply for 17 IP cameras, RACK enclosure switch PoE 10/100Mbps 17xPoE + 1x Uplink

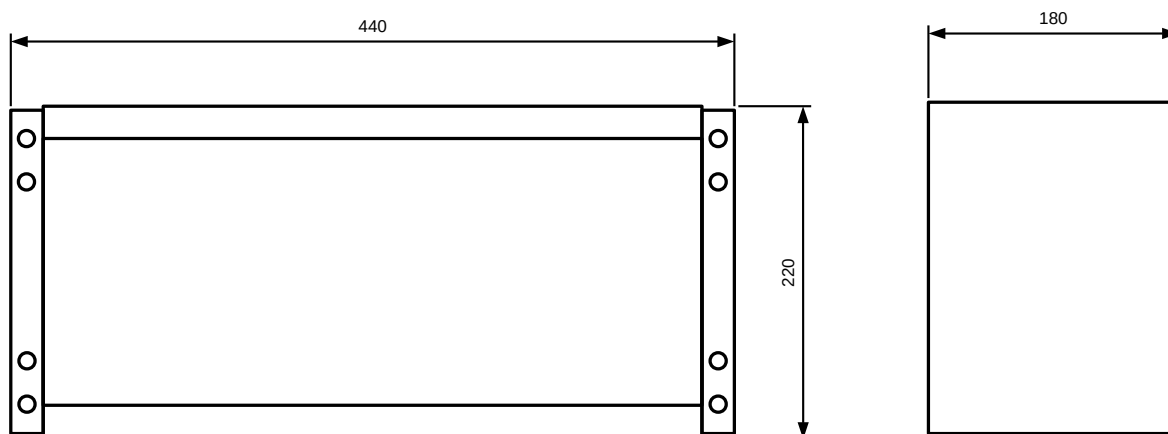
INSTRUCTION MANUAL

IPUPS-17-11-R5U0 is a buffer power supply for IP CCTV cameras. The device is a convenient solution for buffer power for monitoring cameras that require uninterrupted operation. The device is designed to work with IP cameras and other network devices powered in the PoE 802.3at / af and PoE PASSIVE standard.

The LONG RANGE mode allows to increase the transmission range up to 280 m using standard UTP cable.

The system is designed to work with lead-acid or SLA batteries.

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 ports RJ45 10/100Mbps 17 x PoE, 1 x UPLINK
Ports Functions	LAN 1 ... LAN 4: INPUT PoE PASSIVE (up to 40W) - switch power supply OUTPUT PoE - to powered devices PoE PASSIVE (up to 40W) oraz 802.3af (up to 15,4W), 802.3at (up to 30W) LAN 5: INPUT PoE PASSIVE (up to 70W) - switch power supply OUTPUT PoE (VIN > 48 VDC) to powered devices PoE PASSIVE (up to 70W) oraz 802.3af (up to 15,4W), 802.3at (up to 30W) LAN 6: UPLINK (without PoE power supply)
Operating modes	"STANDARD" (DIL Switch MODE = OFF) LAN 1 ... LAN 6 - 10/100Mbps, up to 100m range "LONG RANGE" (DIL Switch MODE = ON) LAN 1 ... LAN 4 - 10Mbps, up to 280m range LAN 5 ... LAN 6 - 10/100Mbps, up to 100m range
Battery	2 x gel or AGM 12V / 18Ah battery
Power Supply Output Voltage	12 VDC +/-15%
PoE Output Voltage	48 VDC +/- 2%
Power	2 x 72 W
Efficiency	90% @120W
Input Voltage	190 ... 260 VAC, 50 Hz
Battery Charging Current	1 A lub 2 A (selected by jumper JPI)
Power Supply Input Protection	Slow Blow Fuse 3,15A
Power Supply Output Protection	Mains operation: Overload electronic protection 9A (after short circuit it may be necessary to restart power supply) Battery operation: Slow Blow Fuse 6,3A
Power Supply Thermal Protection	TSD (thermal shutdown) 130°C - power supply restart needed
Ports Protection	LAN 1 ... LAN 6, Vin Surge protection LAN 1...LAN 4 0,75A overload protection with auto recovery LAN 5 1,25A overload protection with auto recovery
Battery Circuit Protection	Battery reverse polarity protection and overload protection: Slow Blow Fuse 6,3A Deep discharge protection: Battery disconnection below 10,2 V with auto recovery after mains returning
Indication	AUPS-70-120-OF: LED1 (yellow) - mains voltage LED2 (green) - output voltage LED3 (red) - battery charging xPoE-6-11-OF: LEDs in connectors LAN 1 ... LAN 5 - PoE power supply
Technical Outputs	AUPS-70-120-OF: OUF – lack of voltage +DC_OUT ACF – lack of voltage AC Open Collector output with 50mA loading capability (each output)
Startup at AC Loss	Automatic startup of the PSU after connecting the battery
Power Control	Switch PoE ON/OFF - positions 2 ... 6 (LAN 1 ... LAN 5) PoE OFF on port - switch OFF PoE ON on port - switch ON
Housing Construction	Housing material - 0.8 mm steel sheet, powder coated Housing material COVER - 2 mm aluminum sheet, powder coated graphite color (RAL 7024)
Assembly	RACK 19"
Ingress Protection Rating	IP20
Operating Temperature	-10 ... +40°C
Dimensions	5U 180mm 440 x 220 x 180 mm
Weight	3,50 kg

The Long Range mode allows you to increase the transmission range in the LAN network up to 280m with the use of a standard UTP twisted-pair cable.

The switch allows to work in two modes: standard and extended range. When the Long Range switch is in the OFF position, all ports operate at 100 Mbps and offer Ethernet coverage up to 100 meters. After switching the dipswitch to the ON position, the range is increased to 280 meters, and the speed on ports 1 to 4 is reduced to 10 Mbps. The bandwidth is sufficient to efficiently support one camera. In both modes, the speed UpLink 5 and 6 ports is 100 Mbps.

Thanks to the enabled LongRange mode, we provide greater flexibility in the placement of cameras. Increasing the distance from the switch allows easier coverage of a large area without the need to build additional distribution points.

"STANDARD" (MODE = OFF)

LAN 1 ... LAN 4 - 10/100 Mbps PoE OUT, range up to 100m

LAN 5 - 10/100 Mbps, PoE IN/OUT range up to 100m

LAN 6 - 10/100 Mbps, range up to 100m

"LONG RANGE" (MODE = ON)

LAN 1 ... LAN 4 - 10 Mbps PoE OUT, range up to 280m

LAN 5 - 10/100 Mbps, PoE IN/OUT range up to 100m

LAN 6 - 10/100 Mbps, range up to 100m

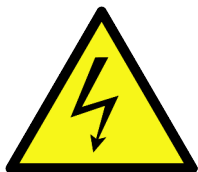
Comments:

- LongRange mode is turned off by default
- Changing modes requires power restart
- It is recommended to pre-test the features before deployment.
- There is no VLAN port isolation - uninterrupted communication between all switch ports regardless of the operating mode.
- In the case of long distances, we recommend powering the switch with 55V from the dedicated APS-90-550-OF power supply or using the ASUC-100-550-OF converter in the case of buffer sets
- Transmission distance is related to the cable used, Cat5e / 6 cable is recommended
- Using low-quality or CCA cables directly reduces the range and the limited PoE budget provided to the camera

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 selected location and connect the connecting wires.
- Connect Protective Earth wiring.
- Connect mains power supply to L, N terminals.
- Connect the cameras cables.
- Turn on mains 230VAC power supply.
- After checking system operation, close the enclosure.

Operation Indication

- AUPS-70-120-OF LED1 YELLOW – mains power 230VAC
- AUPS-70-120-OF LED1 GREEN – output voltage
- AUPS-70-120-OF LED3 RED – battery charging
- xPoE-6-11-OF LED in connectors LAN1 ... LAN5 – PoE power on specified 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.

