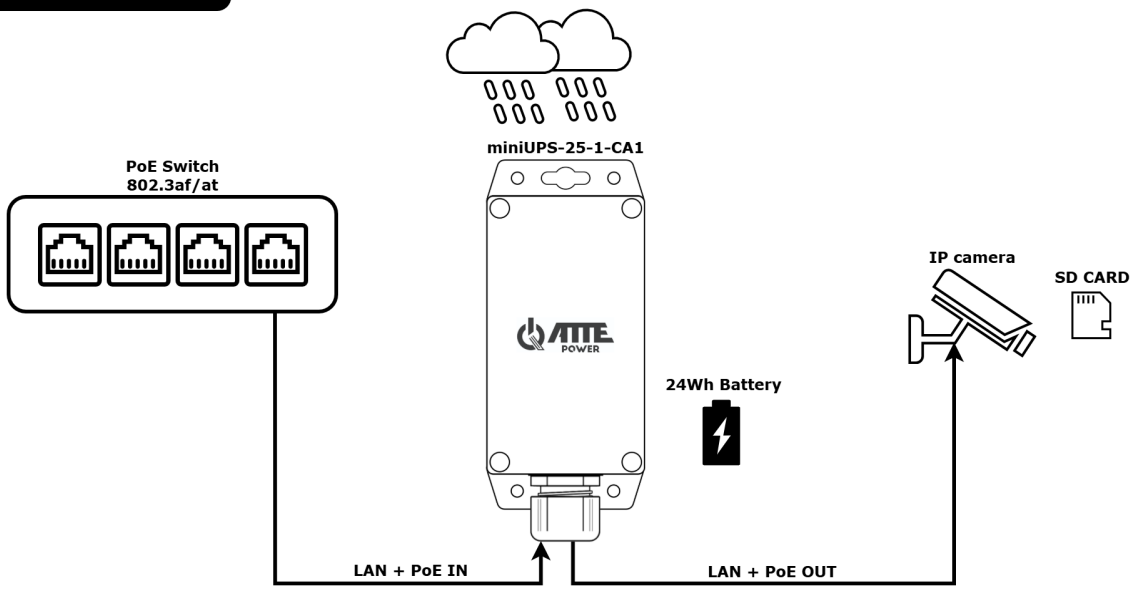
Instruction manual

miniUPS-25-1-CA1

Buffer module for IP PoE devices,
24 Wh battery

Basic application



Operation Indication

- **RED LED** (constant) – operating via the PoE switch, power supplied via the LAN port + PoE IN
- **RED LED** (blinking) – operating via battery, power supplied via the battery

Description

miniUPS-25-1-CA1 is a buffer module designed to provide backup power to PoE devices, particularly IP cameras. Its main function is to maintain the device's operation in the event of a power failure.

The module features a built-in 24 Wh battery, which provides 2–4 hours of backup power for an 8 W IP camera.

The IP camera must be equipped with an SD memory card to record video in the event of a power failure.

The module, mounted next to the PoE reciver, ensures continuous operation and increases the system's resilience to communication interruptions and accidental or deliberate damage to the cabling.

The miniUPS-25-1-CA1 automatically detects power loss and switches to battery operation instantly, ensuring that the connected camera remains powered without interruption. If neither input power nor a connected load is detected, the module will automatically shut down.

The START button is used to activate PoE without connecting the input power supply. It is particularly suitable for configuring camera parameters without the need for a PoE switch.

The device features an IP68 outdoor enclosure, enabling it to operate in outdoor conditions.

Installation

1. Install the device in the selected location..
2. Connect the PoE (44–58 VDC) from the PoE switch to the LAN+PoE IN port.
3. Connect the UTP cable leading to the PoE IP camera to the LAN+PoE OUT port.
4. Check that the red LED on the device is lit.
5. Close the enclosure.

Do you have a problem with your device? Contact us.
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Technical Specification

LAN ports	1x LAN PoE IN RJ45 10/100/1000Mbps 1x LAN+PoE OUT RJ45 10/100/1000Mbps
Port functions	LAN + PoE IN PoE input (switch power supply): 802.3af (up to 15W) or 802.3at (up to 30W) PoE PINS: 1,2 (V+/-) 3,6 (V+/-) and/or 4,5 (V+/-) 7,8 (V+/-) LAN + PoE OUT PoE LAN output: 802.3af/at PoE PINS: 1,2 (V-) 3,6 (V+) 4,5 (V+) 7,8 (V-) IMPORTANT! The ports on the device operate in pass-through mode. This means that if the power supply operates under the 802.3bt standard (60 W) and the PoE receiver also supports this standard, the miniUPS will be able to deliver up to 60 W to the device. However, please note that such high power consumption may pose a risk to the device. We recommend using the miniUPS with devices that operate under the 802.3af or 802.3at standards.
Battery	24 Wh, 2x LiFePO4 18650 3.6V / 3350 mAh (connected in series)
Battery charging current	300 mA
Output voltage	When powered by a PoE switch: Vout = Vin When operating on battery: Vout = 42 V +/- 1% Upon activation via the START button: 48 V +/- 1%
Power consumption	0,25 W
Maximum power	30 W
Input voltage	44 ... 58 VDC
Protection	Surge protection, Battery discharge protection, Battery overload protection
Start-up without the input power	START button
Indicators	Red LED (constant) – operating via the PoE switch, power supplied via the LAN port + PoE IN Red LED (blinking) – operating via battery, power supplied via the battery
Housing construction	ABOX-CA1 enclosure Enclosure material – plastic, light grey UV-resistant Cable glands: 1 x M25 Cable gland insert: 2 holes, each 6 mm in diameter (6Ø)
Assembly	Wall-mounted via mounting holes; can be mounted on a pole using the optional ADD-PMACA1 adapter
Operating temperature	-25°C...+65°C
Protection rating	IP68
Dimensions	165 x 65 x 55 mm
Weight	0,33 kg

Find out more

miniUPS-25-1-CA1 on the WWW site

ATTE Technical Support Portal

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.

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

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.





