

CODE: **SF108-B** v.1.3/VTYPE: **SF108-B 10-port switch with buffer power supply for 8 IP cameras**

### Features:

- Uninterruptible power supply of 8 IP cameras (52 V DC)
- Switch 10 ports
  - 8 PoE ports 10/100 Mb/s, (1+8 ports) (data and power supply)
  - 2 ports 10/100/1000 Mb/s (G1/TP, G2/TP ports) (UpLink)
  - 2 ports 10/100/1000 Mb/s SFP (G1/SFP, G2/SFP ports)
- 30 W for each PoE port, supports devices compliant with the IEEE802.3af/at (**PoE+**) standard
- Approximate backup time: 5h 30min
- LED indication
- Metal enclosure – color white RAL 9003 with space for two 17 Ah/12 V battery
- Supports auto-learning and auto-aging of MAC addresses (1K size)
- warranty – 2 year from the production date

### DESCRIPTION

The SF108-B is dedicated for uninterruptible power supply of 8 IP cameras (52 V DC power supply).

The main elements of this system include:

- 10 ports PoE (SF108) switch
- 27,6 V (PSB-1552455) buffer power supply with two 17 Ah / 12 V batteries
- a converter (DC/DC52230) increasing the voltage to 52 V DC (supply of the PoE switch)

In case of power decay, a battery back-up is activated immediately.

The approximate backup time is given assuming that all output ports are used (using typical devices and 17 Ah batteries). The electricity consumption for own needs and the energy efficiency of the power intake track were taken into account. The exact description of how to perform the calculations can be found at: ["Approximate backup time - assumptions for calculations"](#).

Automatic detection of any devices powered in the PoE/PoE+ standard is enabled at the 1 – 8 ports of the switch. The G1/TP and G2/TP ports is used for connection of another network device via RJ45 connector. The switch is fitted with SFP slots; the use of fiber optic module (GBIC) allows fiber optic transmission. The LEDs at the front panel indicate the operation status.

The switch is housed in a metal enclosure (color RAL 9003) which can accommodate a two 17 Ah/12 V batteries. The enclosure features a micro switch tamper indicating door opening (front panel). The SF108-B is fitted with two LEDs on the front panel (red LED – indicates 230 V power supply of the PSU, green LED indicates the presence of DC voltage).

The PoE technology ensures a network connection and reduces installation costs by eliminating the need to supply a separate power cable for each device. This method allows supplying other network devices, such as IP phone, wireless access point or router.

## PARAMETERS OF THE SWITCH

<b>Ports</b>	8 x PoE (10/100 Mb/s) (RJ-45) 2 x UPLINK (10/100/1000 Mb/s) (RJ-45) 2 x UPLINK (10/100/1000 Mb/s) (SFP) with connection speed auto-negotiation and MDI/MDIX Auto Cross)
<b>PoE power supply</b>	IEEE802.3af/at (1+8 ports), 52 V DC / 30 W at each port *
<b>Protocols, Standards</b>	IEEE802.3, 802.3u, 802.3x CSMA/CD, TCP/IP
<b>Forwarding rate</b>	10BASE-T: 14880 pps/port 100BASE-TX: 148800 pps/port
<b>Bandwidth</b>	1,6 Gbps
<b>Transmission method</b>	Store-and-Forward
<b>Optical indication of operation</b>	Switch power supply; Link/Act; PoE Status

\* The given value of 30 W per port is the maximum value. The total power consumption should not exceed 96 W.

## ELECTRICAL PARAMETERS

<b>Supply</b>	~200-240 V; 50 Hz; 1 A
<b>Supply power</b>	110 W
<b>Output current at the PoE ports (RJ45)</b>	8 x 0,6 A $\Sigma$ I=2 A (max.)
<b>Output voltage at the PoE ports (RJ45)</b>	52 V DC
<b>Short-circuit protection SCP and overload protection OLP</b>	105 % + 150 % PSU power, manual restart (the fault requires disconnection of the DC output circuit)
<b>PSU current consumption</b>	200 mA
<b>Battery charge current</b>	0,5 A max. / 2x17 Ah (+/- 5 %)
<b>Approximate backup time</b>	5h 30 min
<b>Battery circuit protection SCP and reverse polarity connection</b>	melting fuse
<b>Deep discharge battery protection UVP</b>	U<19 V ( $\pm$ 5 %) – disconnection of the batteries
<b>Sabotage protection: - TAMPER output indicating enclosure opening</b>	- microswitch, NC contacts (enclosure closed), 0,5 A@50 V DC (max.)

## MECHANICAL PARAMETERS

<b>Dimensions</b>	W=420, H=364, D+D <sub>1</sub> =117+14 [+/- 2 mm] W <sub>1</sub> =425, H <sub>1</sub> =369 [+/- 2 mm]
<b>The dimensions of the battery compartment</b>	370 x 165 x 80 mm (WxHxD) max
<b>Gross/Net weight</b>	5,0 / 5,5 kg
<b>Enclosure</b>	Steel plate, DC01 1,0 mm color white RAL 9003
<b>Closing</b>	Cheese head screw x 2 (at the front), (lock assembly possible)
<b>Connectors</b>	Power supply of the cameras: RJ45 socket Input 230 V: $\Phi$ 0,63-2,50 (AWG 22-10) Battery output BAT: 6,3 F-2,5 TAMPER output: wires
<b>Notes</b>	The enclosure does not touch the assembly surface so that cables can be led.