

CODE: **SF108-CRB** v.1.3/V

EN**

TYPE: **SF108-CRB 10-port switch with buffer power supply for 8 IP cameras and recorder in recorder space.**



Features:

- Uninterruptible power supply of 8 IP cameras (52 V DC)
- Uninterruptible power supply of the recorder (12 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
- Supports auto-learning and auto-aging of MAC addresses (1K size)
- Approximate backup time: 3h 30min
- LED indication
- Additional mounting elements (straps for mounting the recorder)
- Metal enclosure – color white RAL 9003 with space for two 17 Ah/12 V battery and offers the possibility of recorder installation
- **The enclosure construction is compliant with the requirements of the General Data Protection Regulation GDPR (the possibility of installing two locks with different codes)**
- Space for a recorder with the following dimensions 320x380x65 (WxHxD)
- warranty – 2 year from the production date

DESCRIPTION

The SF108-CRB is dedicated for uninterruptible power supply of 8 IP cameras (52 V DC power supply) and uninterruptible power supply of the NVR (12 V DC power supply). **The enclosure construction is compliant with the requirements of the General Data Protection Regulation GDPR (the possibility of installing two locks with different codes)**. In addition, the large size of the enclosure allows installing the recorder inside.

The main elements of this system include:

- 10 ports PoE (SF108) switch
- buffer power supply unit 27,6 V (PSB-30024100) which can accommodate two 2 x 17 Ah / 12 V batteries
- a converter (DC/DC52230) increasing the voltage to 52 V DC (supply of the PoE switch)
- step down (DC/DC50SD) converter with adjustable output voltage to 12 V DC (NVR power supply)

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 17Ah 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, 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-CRB 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

Ports	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)
PoE power supply	IEEE802.3af/at (1+8 ports), 52 V DC / 30 W at each port *
Protocols, Standards	IEEE802.3, 802.3u, 802.3x CSMA/CD, TCP/IP
Forwarding rate	10BASE-T: 14880pps/port 100BASE-TX: 148800pps/port
Bandwidth	1,6 Gbps
Transmission method	Store-and-Forward
Optical indication of operation	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 120 W.

ELECTRICAL PARAMETERS

Mains supply	~200-240 V; 50 Hz
Current up to	1,3 A
Supply power	185 W
Output current at the PoE ports (RJ45)	8 x 0,3 A $\Sigma I=2,3$ A (max.)
Output voltage at the PoE ports (RJ45)	52 V DC
Output current (power supply output)	5 A
Output voltage (power supply input)	12 V DC
Short-circuit protection SCP and overload protection OLP	105 % ÷ 150 % PSU power, automatic recovery (the fault requires disconnection of the DC output circuit)
PSU current consumption	250 mA/27,6 V
Battery charge current	1 A max. / 2x17 Ah (+/- 5 %)
Approximate backup time	3h 30 min
Battery circuit protection SCP and reverse polarity connection	melting fuse
Deep discharge battery protection UVP	U<19 V (± 5 %) – disconnection of the batteries
Sabotage protection: - TAMPER output indicating enclosure opening	- microswitch, styki NC (obudowa zamknięta), 0,5 A@50 V DC (max.)

MECHANICAL PARAMETERS

Dimensions	W=421, H=535, D+D ₁ =193+14 [+/- 2 mm] W ₁ =426, H ₁ =540 [+/- 2 mm]
The dimensions of the recorder compartment	W ₂ =380, H ₂ =320, D ₂ =65 [+/- 2 mm]
The dimensions of the battery compartment	370x180x80 (WxHxD)
Gross/Net weight	11,2 / 12,0 kg
Enclosure	Steel plate, DC01 1,0mm color white RAL 9003
Closing	Cheese head screw x 2 (at the front) The possibility of installing two locks with different codes.
Connectors	Power supply of the cameras: RJ45 socket Power supply for recorder: DC 2,1/5,5 plug Input 230 V: Φ 0,63-2,50 (AWG 22-10), Battery output BAT: 6,3 F-2,5 TAMPER output: wires
Warranty	2 year from the production date
Notes	The enclosure does not touch the assembly surface so that cables can be led.