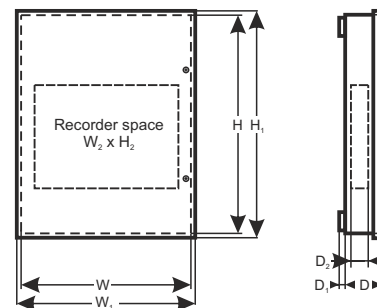


CODE: **SF116-CRB** v.1.3/V  
TYPE: **SF116-CRB 16-ports switch with buffer power supply for 16 IP cameras and recorder, with recorder space.**

EN\*\*



#### Features:

- PoE uninterruptible power supply of 16 IP cameras
- uninterruptible power supply of the recorder (12V DC)
- Switch 16 ports
  - 16 PoE ports 10/100 Mb/s, (1+16 ports) (data and power supply)
  - 2 port 10/100/1000 Mb/s (G1/TP, G2/TP2 ports)
  - 2 porty 100/1000 Mb/s SFP (G1/SFP, G2/SFP ports)
- Supports auto-learning and auto-aging of MAC addresses (16K size)
- 30 W for each PoE port, supports devices complaint with the IEEE802.3af/at (**PoE+**) standard
- Approximate backup time: 4h
- LED indication
- Metal housing - color white RAL 9003, which can accommodate 4x17 Ah/12 V batteries 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 max. 400x345x80 WxHxD
- warranty – 2 year from the production date

#### DESCRIPTION

The SF116-CRB is a complete solution for uninterruptible power supply of 16 IP cameras 54V DC power supply and uninterruptible power supply of the DVR (12 V DC power supply). The enclosure has a battery compartment for 4x17 Ah/12 V batteries (connected in series) and a recorder. **The enclosure construction is compliant with the requirements of the General Data Protection Regulation GDPR (the possibility of installing two locks with different codes).**

The main elements of this system include:

- 16 ports PoE switch
- four batteries (4 x 17 Ah/12 V, connected in series), 54 V DC uninterruptible power supply unit
- 12V DC (DC/DC50HV) buck converter (DVR 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 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 – 16 ports of the switch. The G1/TP, G2/TP ports are 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 4x17 Ah / 12 V battery. The enclosure features a micro switch tamper indicating door opening (front panel). The SF116-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

<b>Ports</b>	16 x PoE (10/100 Mb/s) (RJ-45) 2 x UPLINK (10/100/1000 Mb/s) (RJ-45) 2 x UPLINK (100/1000 Mb/s) (SFP) with connection speed auto-negotiation and MDI/MDIX Auto Cross)
<b>PoE power supply</b>	IEEE 802.3af/at (1+16 ports), 54 V DC / 30 W at each port *
<b>Protocols, Standards</b>	IEEE802.3, 802.3u, 802.3x CSMA/CD, TCP/IP
<b>Bandwidth</b>	14,8 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 192 W.

#### ELECTRICAL PARAMETERS

<b>Mains supply</b>	~200-240 V; 50 Hz
<b>Current up to</b>	1,5 A
<b>Supply power</b>	267 W
<b>Output current at the PoE ports (RJ45)</b>	16 x 0,6 A $\Sigma$ I=4 A (max.)
<b>Output voltage at the PoE ports (RJ45)</b>	44÷54 V DC
<b>Power supply output current of the recorder</b>	4 A
<b>Power supply output voltage of the recorder</b>	12 V DC
<b>Battery charge current</b>	0,5 A max. (+/-5 %)
<b>Approximate backup time</b>	4h
<b>Short-circuit protection SCP and overload protection OLP</b>	electronic, automatic recovery
<b>PSU current consumption</b>	0,25 A
<b>Battery circuit protection SCP and reverse polarity connection</b>	melting fuse
<b>Deep discharge battery protection UVP</b>	U<38 V ( $\pm$ 5 %) – disconnect of connection battery

#### MECHANICAL PARAMETERS

<b>Dimensions</b>	W=525, H=680, D+D <sub>1</sub> =165+14 [+/- 2mm] W <sub>1</sub> =530, H <sub>1</sub> =685 [+/- 2mm]
<b>The dimensions of the recorder compartment</b>	W <sub>2</sub> =400, H <sub>2</sub> =345, D <sub>2</sub> =80 [+/- 2mm]
<b>The dimensions of the battery compartment</b>	370x180x80 (WxHxD)
<b>Gross/Net weight</b>	17,0 / 18,1 kg
<b>Enclosure</b>	Steel plate, DC01 1,0mm color white RAL 9003
<b>Closing</b>	Cheese head screw x 2 (at the front) <b>The possibility of installing two locks with different codes.</b>
<b>Warranty</b>	2 year from the production date
<b>Connectors</b>	Power supply of the cameras: RJ45 socket Power supply: for recorder: DC2,1/5,5 plug Battery output BAT: 6,3F-2,5 TAMPER output: wires