

CODE: **SF116-B** v.1.3/VITYPE: **SF116-B 16-port switch with buffer power supply for 16 IP cameras**

Features:

- Uninterruptible power supply PoE of 16 IP cameras
- Switch 16 ports
- 16 PoE ports 10/100Mb/s, (1÷16 ports) (data and power supply)
- 2 ports 10/100/1000Mb/s (ports G1/TP, G2/TP2)
- 2 ports 10/100/1000Mb/s SFP (port G1/SFP, G2/SFP)
- 30 W for each PoE port, supports devices compliant with the IEEE802.3af/at (**PoE+**) standard
- Approximate backup time: 2h
- Supports auto-learning and auto-aging of MAC addresses (16K size)
- LED indication
- Metal housing - color white RAL 9003, which can accommodate four 7 Ah/12 V batteries
- warranty – 2 year from the production date

DESCRIPTION

The SF116-B switch is designed for uninterruptible power supply of 16 IP cameras (PoE).

The main elements of this system include:

- 16 ports PoE switch
- buffer power supply unit 54 V DC (PSB-3004850) which can accommodate four batteries connect in series (4x7 Ah/12 V)

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 7Ah 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 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 four 7 Ah/12 V battery (connect in series). The enclosure features a micro switch tamper indicating door opening (front panel) - TAMPER.

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	16 x PoE (10/100Mb/s) (RJ-45) 2 x UPLINK (10/100/1000Mb/s) (RJ-45) 2 x UPLINK (10/100/1000Mb/s) (SFP) with connection speed auto-negotiation and MDI/MDIX Auto Cross)
PoE power supply	IEEE 802.3af/at (1÷16 ports), 54 V DC / 30 W at each port * Used pairs 1/2 (+), 3/6 (-)
Protocols, Standards	IEEE802.3, 802.3u, 802.3x CSMA/CD, TCP/IP
Bandwidth	14,8Gbps
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 192 W.

ELECTRICAL PARAMETERS

Mains supply	~200-240 V; 50 Hz;
Current up to	1,3 A
Supply power	219 W
Output current at the PoE ports (RJ45)	16 x 0,6 A $\Sigma I=4$ A (max.)
Output voltage at the PoE ports (RJ45)	44÷54 V DC
PSU current consumption	230 mA (max.)
Battery charge current	0,5A max. (+/-5%)
Approximate backup time	2h
Short-circuit protection SCP and overload protection OLP	Electronic, automatic recovery
Battery circuit protection SCP and reverse polarity connection	melting fuse
Deep discharge battery protection UVP	U<38V ($\pm 5\%$) – disconnection of the batteries

MECHANICAL PARAMETERS

Dimensions	W=525, H=540, D+D ₁ =72+14 [+/- 2mm] W ₁ =530, H ₁ =545 [+/- 2mm]
The dimensions of the battery compartment	370x180x80 (WxHxD)
Gross/Net weight	9,8 / 10,6 kg
Enclosure	Steel plate, DC01 1,0mm color white RAL 9003
Closing	Cheese head screw x 2 (at the front)
Warranty	2 year from the production date
Connectors	Power supply of the cameras: RJ45 socket Battery output BAT: 6,3F-2,5 TAMPER output: wires