

CODE: **S98-BR** v.1.0/IITYPE: **S98-BR 9-port switch with buffer power supply for 8 IP cameras and recorder****Features:**

- Uninterruptible power supply of 8 IP cameras (48VDC)
- uninterruptible power supply of the recorder (12VDC)
- 9 10/100 Mb/s ports
- 8 PoE ports (data transfer and power supply)
- 15,4W for each PoE port, supports devices complaint with the IEEE802.3af standard
- Supports auto-learning and auto-aging of MAC addresses (1K size)
- Metal enclosure – color white RAL 9003 which can accommodate two 12V/17Ah batteries
- warranty – 2 year from the production date

**DESCRIPTION**

The S98-BR is a complete solution for uninterruptible power supply of 8 IP cameras (48VDC power supply) and uninterruptible power supply of the DVR (12VDC power supply).

The main elements of this system include:

- 9 port PoE switch
- buffer power supply 27,6V unit which can accommodate two 2 x 17Ah/12V batteries
- a converter (DC/DC48250) increasing the voltage to 48VDC (supply of the PoE switch)
- 12VDC (DC/DC50SD) buck converter (DVR power supply)

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

Automatic detection of any devices powered in the PoE standard is enabled at the 1 – 8 ports of the switch. The UPLINK port is used for connection of another network device e.g. recorder. The LEDs at the front panel indicate the operation status (description in the table. 8).

The switch is housed in a metal enclosure (color RAL 9003) which can accommodate two 2x17Ah/12V battery. The enclosure features a micro switch tamper indicating door opening (front panel). The S98-BR is fitted with two LEDs on the front panel (red LED – indicates 230VAC 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	9 10/100Mb/s ports (8 x PoE + 1 x UPLINK) with connection speed auto-negotiation and MDI/MDIX Auto Cross)
PoE power supply	IEEE 802.3af (1+8 ports), 48V DC / 15,4W at each port * Used pairs 4/5 (+), 7/8 (-)
Protocols, Standards	IEEE802.3, 802.3u, 802.3x CSMA/CD, TCP/IP
Forwarding rate	10BASE-T: 14880pps/port 100BASE-TX: 148800pps/port
Bandwidth	1,6Gbps
Transmission method	Store-and-Forward
Optical indication of operation	Switch power supply; Link/Act; PoE Status

\* The given value of 15,4W per port is the maximum value. The total power consumption should not exceed 96W when all PoE ports are being used.

## ELECTRICAL PARAMETERS

Mains supply	176÷264V AC
Current up to	1,4A@230VAC max.
Supply power	184W
Output current at the PoE ports (RJ45)	8 x 0,3A $\Sigma I=2A$ (max.)
Output voltage at the PoE ports (RJ45)	48VDC
Output current (power supply output)	5A
Output voltage (power supply input)	12VDC
Ripple voltage at the output to the recorder	150mV
Short-circuit protection SCP and overload protection OLP	105% ÷ 150% PSU power, manual restart (the fault requires disconnection of the DC output circuit)
PSU current consumption	100mA
Battery charge current	1,0A max. @2x17Ah (+/-5%)
Battery circuit protection SCP and reverse polarity connection	melting fuse
Deep discharge battery protection UVP	U<19V ( $\pm 5\%$ ) – disconnect of connection battery
Sabotage protection: - TAMPER output indicating enclosure opening	- microswitch, NC contacts (enclosure closed), 0,5A@50V DC (max.)

## MECHANICAL PARAMETERS

Enclosure dimensions	400 x 350 x 90+8 [mm] (WxHxD)
Fitting battery	2x17Ah/12V (SLA) max. 370 x 180 x 80mm (WxHxD) max 
Gross/Net weight	5,20 / 5,40 kg
Enclosure	Steel plate, DC01 1,0mm color white RAL 9003
Closing	Cheese head screw x 2 (at the front), (lock assembly possible)
Connectors	Power supply of the cameras: RJ45 socket Outputs: $\Phi$ 0,63-2,50 (AWG 22-10), battery output BAT: 6,3F-2,5 TAMPER output: wires
Notes	The enclosure does not touch the assembly surface so that cables can be led.