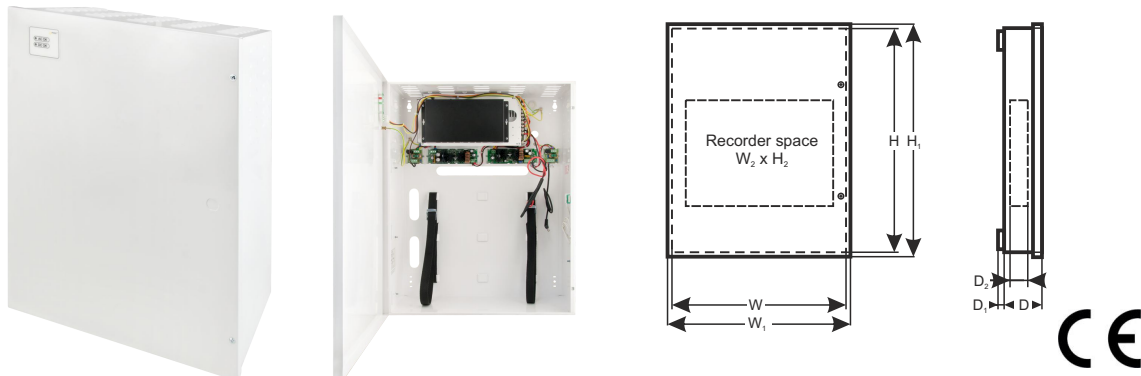


CODE: **S98-CRB** v.1.1/IV
TYPE: **S98-CRB 9-port switch with buffer power supply for 8 IP cameras
and recorder, with recorder space.**



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
- Approximate backup time: 3h 46min
- Metal housing - color white RAL 9003, which can accommodate two 12V/17Ah batteries and offers the possibility of recorder installation
- Supports auto-learning and auto-aging of MAC addresses (1K size)
- Recorder space max. 380x320x65 (WxHxD)
- warranty – 2 year from the production date

DESCRIPTION

The S98-CRB 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). In addition, the large size of the enclosure allows installing the recorder inside.

The main elements of this system include:

- 9 port PoE switch
- buffer power supply unit 27,6V 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.

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 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).

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-CRB 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 (rejestator)	5A
Output voltage (rejestator)	12VDC
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/27,6V
Battery charge current	1,0A max. /2x17Ah (+/-5%)
Approximate backup time	3h 46min
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

Dimensions	W=421, H=535, D+D ₁ =193+14 [+/- 2mm] W ₁ =426, H ₁ =540 [+/- 2mm]
The dimensions of the recorder compartment	W ₂ =380, H ₂ =320, D ₂ =65 [+/- 2mm]
The dimensions of the battery compartment	370x180x80 (WxHxD)
Gross/Net weight	11/11,5 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 Power supply: for recorder: DC2,1/5,5 plug Input 230VAC: Φ 0,63-2,50 (AWG 22-10) Outputs: Φ 0,63-2,50 (AWG 22-10), battery output BAT: 6,3F-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.