

CODE: **S54-B17** v.1.0/I

EN\*\*

TYPE: **S54-B17 5-port switch for 4 IP cameras with enclosure and battery backup**



### Features:

- Uninterruptible power supply of 4 IP cameras (48VDC)
- 5 10/100 Mb/s ports
- 4 PoE ports (data transfer and power supply)
- 15,4W for each PoE port, supports devices compliant with the IEEE802.3af standard
- Supports auto-learning and auto-aging of MAC addresses (1K size)
- Metal enclosure – color white RAL 9003 with battery space for a 12V/17Ah battery
- warranty – 2 year from the production date

### DESCRIPTION

The S54-B17 is dedicated for uninterruptible power supply of 4 IP cameras (48VDC power supply).

The main elements of this system include:

- 5 port PoE switch
- 13,8V buffer power supply with a single 1 x 17Ah / 12V battery
- A converter (DC/DC48125) increasing the voltage to 48VDC (supply of the PoE switch)

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 – 4 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.

The switch is housed in a metal enclosure (color RAL 9003) which can accommodate a 1x17Ah/12V battery.

The enclosure features a micro switch tamper indicating door opening (front panel). The S54-B17 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


|  |  |
|--|--|
| <b>Ports</b>                           | 5 10/100Mb/s ports (4 x PoE + 1 x UPLINK)<br>with connection speed auto-negotiation and MDI/MDIX Auto Cross) |
| <b>PoE power supply</b>                | IEEE 802.3af (1+4 ports), 48V DC / 15,4W at each port *  |
| <b>Protocols, Standards</b>            | IEEE802.3, 802.3u, 802.3x CSMA/CD, TCP/IP  |
| <b>Forwarding rate</b>                 | 10BASE-T: 14880pps/port<br>100BASE-TX: 148800pps/port  |
| <b>Bandwidth</b>                       | 1,6Gbps  |
| <b>Transmission method</b>             | Store-and-Forward  |
| <b>Optical indication of operation</b> | Switch power supply;<br>Link/Act;<br>PoE Status  |

\* The given value of 15,4W per port is the maximum value. The total power consumption should not exceed 48W when all PoE ports are being used.

## ELECTRICAL PARAMETERS

|  |   |
|--|---|
| <b>Mains supply</b>  | 176÷264V AC   |
| <b>Current up to</b>   | 0,7A@230VAC max.  |
| <b>Supply power</b>  | 55W   |
| <b>Output current at the PoE ports (RJ45)</b>                                | 4 x 0,3A $\Sigma I=1A$ (max.)   |
| <b>Output voltage at the PoE ports (RJ45)</b>                                | 48VDC   |
| <b>Short-circuit protection SCP and overload protection OLP</b>              | 105% ÷ 150% PSU power, manual restart (the fault requires disconnection of the DC output circuit) |
| <b>PSU current consumption</b>   | 100mA   |
| <b>Battery charge current</b>  | 0,5A max. @1x17Ah (+/-5%)   |
| <b>Battery circuit protection SCP and reverse polarity connection</b>        | melting fuse  |
| <b>Deep discharge battery protection UVP</b>                                 | U<9,5V ( $\pm 5\%$ ) – disconnect of connection battery   |
| <b>Sabotage protection:<br/>- TAMPER output indicating enclosure opening</b> | - microswitch, NC contacts (enclosure closed),<br>0,5A@50V DC (max.)                              |

## MECHANICAL PARAMETERS

|                             |  |
|-----------------------------|--|
| <b>Enclosure dimensions</b> | 400 x 350 x 90+8 [mm (WxHxD)]  |
| <b>Fitting battery</b>      | 17Ah/12V (SLA) max.<br>185 x 170 x 80mm (WxHxD) max<br> |
| <b>Gross/Net weight</b>     | 3,8 / 4,1kg  |
| <b>Enclosure</b>            | Steel plate, DC01 1,0mm color white RAL 9003   |
| <b>Closing</b>              | Cheese head screw x 2 (at the front), (lock assembly possible)   |
| <b>Connectors</b>           | Power supply of the cameras: RJ45 socket<br>Outputs: $\Phi$ 0,63-2,50 (AWG 22-10), battery output BAT: 6,3F-2,5<br>TAMPER output: wires    |
| <b>Notes</b>                | The enclosure does not touch the assembly surface so that cables can be led.   |