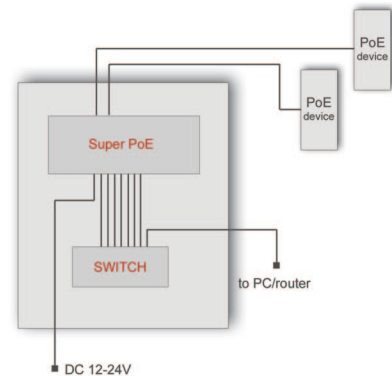
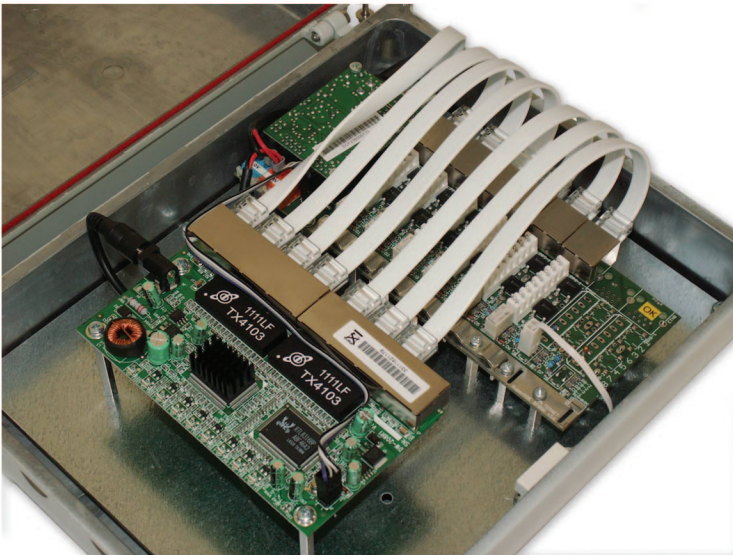


# SUPERPoE

www.superpoe.com  
+421 55 238 5533



Installation Scheme

## SuperPoE 6 port, Alubox + switch

This outdoor version of SuperPOE comprises a managed 8x 100Mbit switch with support for VLAN, IGMP, speed limit, port trunking, packet-storm filtering and other features. Both SuperPoE and switch are managed via same IP and HTTP/SNMP interface. This outdoor SuperPoE is ready-to-work, simply connect PoE cables to reliable KRONE connectors, connect DC power, check connection to ground, and that's it. A magnetic relay contact is built in for intrusion detection and temperature sensor monitors the Alubox internal temperature.

### GENERAL

- supports DC 12V – 24V range
- reverse polarity protection
- max. 5A current (10A short peaks)
- power filtering at power input
- protection for data & power wires
- remote management and monitoring via web / SNMP
- optional managed switch included in outdoor version

### PROTECTION FOR DATA & POWER WIRES

- lightning arrester for each of 4 data wires (4x 10kV protection on each ethernet port)
- soft peak protection on each data pair (4 diodes and 1 transil for each data pair)
- designed for proper grounding of shielded cables and connectors (SFTP, STP, FTP) for additional protection
- included protection against short-circuit or high current for each power wire (2 polymeric fuses for each POE port)
- configurable electronic fuse – can disable/enable power on port automatically if DC current is too high/low

SuperPOE 6-port boards (standalone or in Alubox cases) includes also:

- temperature sensor to watch case temperature
- connector for magnetic relay contact - for case opening/intrusion detection

### MANAGEMENT & MONITORING VIA SNMP / WEB

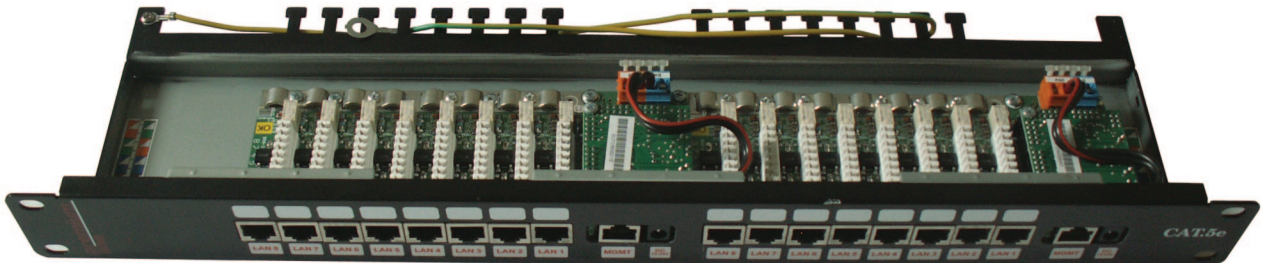
- each POE port can be remotely turned off/on (both + and – power wires are disconnected/reconnected to the device)
- DC current is measured on every POE port and reported to management module
- SNMP trap can be sent when current on POE port is lower/higher than selected range
- ping watchdog for restarting device if IP is not reachable (planned feature, will need software upgrade)

### MANAGED SWITCH AVAILABLE with Alubox SuperPOE

- 10/100Mbit ethernet switch with 8-ports
- 3,25 Gbps max throughput
- additional surge protection included
- jumbo frame support – up to 1552 bytes
- hardware speed limit for every port – 128K, 256K, 1M, 2M, 4M, 8M
- both 802.1q and port-based VLANs supported, max. 32 VLANs (of 4096)
- IGMP snooping supported (v1, v2)
- prioritization support - DiffServ, 802.1p/q, port priority
- full-duplex flow control with 802.3x pause ability
- port trunking
- port-mirror function
- TX/RX counters for each port
- enabling/disabling each ethernet port
- large MAC address table (max 8192 addresses)
- 802.1d multicast frames can be filtered (STP, pause, LACP)
- network loop detection
- broadcast and multicast flood control

# SUPERPoE

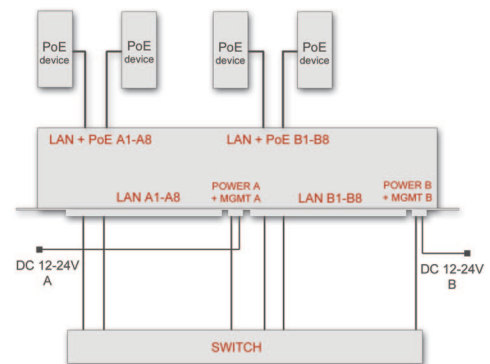
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## SuperPoE 2x 8 port, Rack/KRONE

Two SuperPOE boards in one 19" 1U rack case. On the front panel there are 16 LAN (data only) ports, and two LAN ports for management, all RJ-45. Exit POE cables, leading to the roof or mast, out of the back of SuperPoE and connect to reliable KRONE connectors. Each data port has 3-way surge protection (64 lightning arresters inside, 10kV each!!), so your 19" switch will be well protected, but remember, proper and solid electric connection between SuperPoE case and ground is necessary.

DC power source can be connected directly into SuperPoE using the DC jack on the front panel, or using WAGO connectors inside the case. You can use two power sources with same or different voltages (i.e. a 12V power source can be used for 8 ports and a 24V power source for another 8 ports). Alternatively, you can cross-connect two SuperPoE boards inside the rack case, and supply power to two boards from one source. If you have two power sources which can work parallel - then cross-connect two SuperPoE boards inside case, connect both power sources, and you will have redundant power supply for all 16 devices.



Installation Scheme

### GENERAL

- supports DC 12V – 24V range
- reverse polarity protection
- max. 5A current (10A short peaks)
- power filtering at power input
- protection for data & power wires
- remote management and monitoring via web / SNMP

### PROTECTION FOR DATA & POWER WIRES

- lightning arrester for each of 4 data wires (4x 10kV protection on each ethernet port)
- soft peak protection on each data pair (4 diodes and 1 transistor for each data pair)
- designed for proper grounding of shielded cables and connectors (SFTP, STP, FTP) for additional protection
- included protection against short-circuit or high current for each power wire (2 polymeric fuses for each POE port)
- configurable electronic fuse – can disable/enable power on port automatically if DC current is too high/low

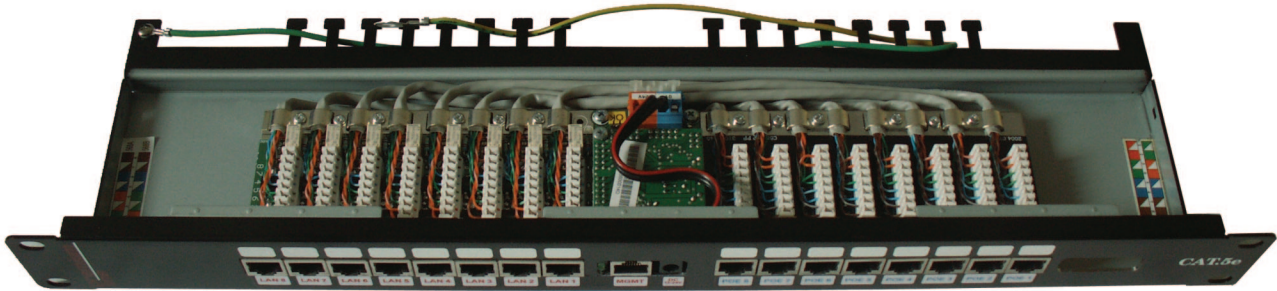
### MANAGEMENT & MONITORING VIA SNMP / WEB

- each POE port can be remotely turned off/on (both + and – power wires are disconnected/reconnected to the device)
- DC current is measured on every POE port and reported to management module
- SNMP trap can be sent when current on POE port is lower/higher than selected range
- ping watchdog for restarting device if IP is not reachable (planned feature, will need software upgrade)



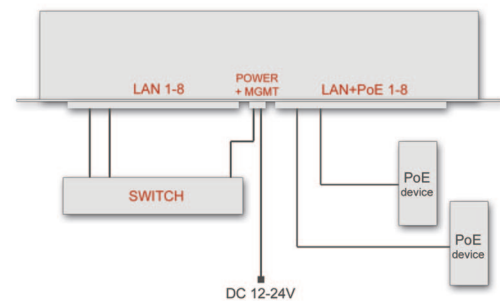
# SUPERPoE

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## SuperPoE 8 port, Rack/RJ45

One SuperPoE and one plain board in 19" 1U rack case. Boards are interconnected inside the case. With this version of SuperPoE, you will connect all cables to RJ45 ports – you won't patch any cables to KRONE connectors. This type of connection doesn't offer as reliable connection as KRONE connectors does. RJ45 ports on the left side are DATA only, ports on the right side are DATA+POWER (PoE). Management port and DC power jack are between.



Installation Scheme

### GENERAL

- supports DC 12V – 24V range
- reverse polarity protection
- max. 5A current (10A short peaks)
- power filtering at power input
- protection for data & power wires
- remote management and monitoring via web / SNMP

### PROTECTION FOR DATA & POWER WIRES

- lightning arrester for each of 4 data wires (4x 10kV protection on each ethernet port)
- soft peak protection on each data pair (4 diodes and 1 transistor for each data pair)
- designed for proper grounding of shielded cables and connectors (SFTP, STP, FTP) for additional protection
- included protection against short-circuit or high current for each power wire (2 polymeric fuses for each POE port)
- configurable electronic fuse – can disable/enable power on port automatically if DC current is too high/low

### MANAGEMENT & MONITORING VIA SNMP / WEB

- each POE port can be remotely turned off/on (both + and – power wires are disconnected/reconnected to the device)
- DC current is measured on every POE port and reported to management module
- SNMP trap can be sent when current on POE port is lower/higher than selected range
- ping watchdog for restarting device if IP is not reachable (planned feature, will need software upgrade)