

PRODUCT SHEET - POWER SUPPLY FROM MILLETEKNIK

PoE

PoE Switch 4p FLX M



Managed PoE switch with 4 PoE Ports.

PoE switch with 8 PoE ports.

PoE switch with 16 PoE ports.

Constant output voltage, 24 V (which is boosted to 48 V) , regardless of battery or mains operation, which means that the entire battery capacity can be used.

For mounting on a wall or in a 19" rack.

Voltage, current and power

Mains voltage: 230 V AC - 240 V AC, 47 Hz - 63 Hz.

Voltage out: 27.3 VDC, (24 V).

Charging current: 10 A. 13.5 A.

Power outlet: 30.8 W/ PoE port, 5 A on 24 V load output.

Load outputs

PoE switch can drive load to PoE devices and motherboard can drive one (1) 24V load output to drive other applications.

Alarm

Alarms are given for: Delayed power failure alarm or low battery voltage, disconnected batteries, fuse failure and overcharging of batteries.

Alarms are given for: Delayed mains failure alarm or low battery voltage, disconnected batteries at start-up and fuse failure.

Protection

Protection against overload, overvoltage, overtemperature, short circuit and deep discharge.

Controlled charging of batteries protects against overcharging and extends the life of batteries. Batteries are charged with a maximum of 4.5 A.

Fuses

Mains fuse: 2.5 A.

Load securing: Fuse on supply to PoE switch (8p): 10A. Fuse on load output: 10 A. Fuse on supply to PoE switch (16p): 13.5 A.

Battery fuse: 30 A.

Indications and communication

LED displays information and alarms on the circuit board and on the enclosure door.

PoE power supply can not as an option, communicate via protocol (RS-485/I²C) against UC. (ASSA

Name, article number and e-number

Name, article number and email number.

Name	Article number	E-number (SV)
PoE M-Switch 4p FLM	FM01N10224P01004PM	51 728 96
PoE Switch 8p FLX M	FM01N10224P01008PM	51 728 97
PoE Switch 16p FLX M	FM01N10224P01016PM	51 728 98
PoE Switch Managed 8p FLX L	FL01N10224P25008PM	51 729 48

Description

Primary switched four, eight or 16 PoE-ports, power supply with battery backup 24 V, 30.8 W/port, with room for two 20 Ah batteries.

Area of use

Power supply with backup power to power PoE devices such as surveillance cameras and other PoE powered devices. A plate for keystone modules makes the installation of PoE devices easier. An additional load output to power other 24 V applications.

Batteries drive, for example, the access system, when the power grid goes down.

Long life, energy efficient and support is available if something goes wrong, now or in 10 years.

Technical description

Plate for attachment of Keystone modules.

1 Gb ports.

ABLOY, RCO, Sentrion, Unison, Bravida, Vanderbilt/ACRE and Tidomat - this can only be set from the factory and cannot be changed by users or technicians).

Battery and battery type

Two 7 Ah, Two 14 Ah, or two 20 Ah batteries.

PoE M-switch 8p FLX M: two 20 Ah batteries.

PoE M-switch 16p FLX M: two 14 Ah batteries.

Battery type: 12 V, AGM lead-acid battery, maintenance-free. Batteries not included.

Backup operating time on batteries

The reserve operating time in battery operation depends on how large a load is connected to the power supply. If the load varies, as with frequent opening of door locks, the time that batteries can continue to power the security system decreases. To get an estimate of reserve operating times see: www.milleteknik.se/Manualer/FaQ/Reservdrifttider/

Enclosure

Sheet metal cabinet for wall mounting or in a 19" rack cabinet (5 HE). Powder-coated black. Four cable entries on the top and outlet holes on the back. Cable tie holder in enclosure.

Dimensions, fan and IP class.

Dimensions, height x width x depth	[sv] HE	Built-in fan	IP class
224 x 437 x 212 mm	6	Yes	IP32

Weight

Weight.

Name	Net weight	Weight incl. packaging
PoE M- switch 16p FLX M	8.2 kg	8.95 kg
PoE M-switch 4p FLX M	7.8 kg	8.55 kg
PoE M- switch 8p FLX M	8 kg	8.75 kg

Installation requirements

The device is intended for fixed installation. The unit must be installed indoors, environmental class 1, ambient temperature: +5°C to +40°C. Recommended ambient temperature is +15°C to +25°C (for optimal battery life).

¹Costs incurred in connection with recycling are not reimbursed.

Requirements that the product meets

The product meets the following requirements.

EMC:	EMC Directive 2014 / 30EU
Electricity:	Low voltage directive: 2014/35 / EU
PoE:	IEEE 802.3af, IEEE 802.3at/30.8 W Note that 802.3at type2 is not supported, as the PoE card lacks a handshake function for type 2. IEEE 802.3af, IEEE 802.3at/30.8 W up to Type2, Class 4.
CE:	CE directive according to: 765/2008



Guarantee

The product has a two-year warranty against manufacturing defects. Batteries and wearing parts are not covered by warranty.

Expandable, options and accessories

Tamper switch

Manufacturing, lifespan, environmental impact and recycling

Manufactured by Milleteknik in Partille, Sweden.

The product is designed and constructed for a long service life, which reduces the environmental impact. The life of the product (except wearing parts) depends on, among other things, environmental factors, mainly ambient temperature, unforeseen load on components such as lightning strikes, external impact, handling errors, etc. Products are recycled, simply because they are modular, by being left at the nearest recycling station or sent back to the manufacturer.¹Contact your distributor for more information.

Link to the latest information

Products and software are subject to updates, you will always find the latest information on our website.

PoE

Link to technical specifications

[PoE M-switch 4p FLX M Swedish](#)

[PoE M-switch 4p FLX M English](#)

[PoE M-switch 8p FLX M Swedish](#)

[PoE M-switch 8p FLX M English](#)

PoE M-switch 16p FLX M Swedish

PoE M-switch 16p FLX M English

Miscellaneous

The difference between PoE, PoE+ and PoE++.

Max power PoE.

-	PoE	Poe+	PoE++
Official name	IEEE 802.3af	IEEE 802.3at	IEEE 802.3bt
Maximum power	13 W	25 W	71 W
Compatible ^a .	-	PoE	PoE, PoE+

^aThe power supply follows "up", but not "down". A PoE can never power a PoE+/PoE++ device that requires more than 13 W.

About this information

All information is published subject to possible errors. Information is updated without prior notice.