

PRODUCT SHEET

PoE



Product Identification

Table 1. Product designation, part number and email number.

Product designation	Article number	E-number (SE)
PoE Switch 8p PS OUT S	PL02P00048P050P-UTS	51 73 418

Technical description

Power supply to power PoE devices such as surveillance cameras and other PoE powered devices.

PoE switch with eight PoE fed ports and two LAN ports and one sfp port. Power supplies power PoE cards. The device lacks batteries, so backup power in case of power failure is not possible

Table 2. Quick Facts

Quick Facts	
Supply voltage (V)	230V AC, +/- 10%, 47Hz- 63Hz
Voltage out (V)	54.6 V DC, (48 V DC) Batteries not possible to connect to the deviceAlso applicable in battery operation.

Areas of application

Table 3. Areas of application

Areas of application	Yes	No
IP camera, power supply.	✓	
Networked devices that can be powered by PoE.	✓	

Electrical data

Table 4. Electrical data

Electrical data	
Supply voltage	230V AC, +/- 10%, 47Hz- 63Hz
Charge current	Depending on the power outlet.
Efficiency ^a .	93%
Standby consumption	0.5W
Voltage out	54.6 V DC, (48 V DC) Batteries not possible to connect to the deviceAlso applicable in battery operation.
Power (W)	30.8W per port

^aAt rated load.

Load outputs

Table 5. Load outputs

Load outputs	
Number of loading outputs	PoE switch can drive load. Load output to power other applications

Table 6. POE outputs

POE outputs	
Number of PoE ports (RJ-45)	8
PoE budget	240W
POE Budget/Max Power Per Port	! 8 30.8 W.
Number of LAN ports	2
Network ports/interfaces, RJ-45	100 Mbit/s 1000Mbps
Managed	No Yes

Alarm and protection

Table 7. Alarm and protection

Alarm and protection	Yes	No
Overload Protection/ Surge Protection	✓	
Over-temperature protection	✓	
Short circuit protection	✓	

Communication and Indications

Table 8. Communication and Indications

Communication and Indications	Yes	No	Other. info.
Communication		X	
Indicators/LEDs	✓	X	

Enclosure and Mechanics

Table 9. Enclosure and Mechanics

Enclosure and Mechanics	
Type	Pole
IP class	IP65
Material	Powder coated sheet metal.Sheet metalFiberglass Reinforced Acrylic Plastic
Colour	Beige
Cable grommets	4 pcs
Knockout hole	1 pc. on the back
Lock	X
Fan in enclosure	X

Assembly, installation and eligibility requirements

Table 10. Fitting

Fitting	Yes	No
Pole.	✓	

Table 11. Installation

Installation	Yes	No
Fixed installation.	✓	

Dimensions, weight and packaging information

Table 12. Dimensions

Dimensions, (WxHxD).	Dimensions with packaging ^a .
300 x 250 x 141 mm	515 x 415 x 308 mm

^aDimensions (WxHxD) of product and packaging may differ, this is because the product may be oriented differently in the package.

Table 13. Weight

Net weight	Weight with packaging
5.0 kg	5.4 kg

Table 14. Packaging

Packaging	
Packaging	Cardboard and impact protection in cardboard.
Quantity in pack	1 pc.
Packaging Type (GS1 T0137)	BX box.
Conditions EUR pallet	EUR pallets may not be stacked during transport or storage. Stacking may result in damage to product and packaging
Transport environment	The product must be protected from condensation and direct precipitation during transportation.
Transport temperature (without battery)	-30 °C to +70 °C
Storage environment	Dry indoor environment, protected from condensation. Relative humidity: max 95%, non-condensing
Storage temperature without batteries	-20 °C to +60 °C

Fits

Table 15. Bracket suitable for device

Accessories	OUT S	OUT M	OUT L
Wall Bracket	✓ (Included)	✓ (Included)	✓ (Included)
Pole Mount: Pole Mount Kit for UT S and UT M	✓ (Included)	✓ (Included)	X
Sun Protection, Sun Shield Kit ^a .	✓	✓	✓

^aMounted directly on pole and does not depend on enclosure.

Contact

Table 16. Contact

Department	
Switchboard	031-340 02 30
Support and technical issues	support@milleteknik.se
Sales	sales@milleteknik.se
WWW	www.milleteknik.se
Address	Ögärdesvägen 8B, 433 30 Partille

About this information

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

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COMPLIANCE AND REGULATORY COMPLIANCE

Delivery time, warranty and terms

Table 17. Delivery time, warranty and terms

Delivery time, warranty and terms	
Warranty period ^a .	The product has a two (2) year warranty against manufacturing defects. In addition to the regular warranty period, an additional three (3) year warranty can be purchased.
Special warranty conditions	Components manufactured by manufacturers other than Milleteknik are not covered by Milleteknik's warranty. See also general terms and conditions.
General Terms and Conditions	ALEM09 with exceptions, see: www.milleteknik.se/conditions/
Support	Telephone support and email support during the warranty period are free of charge. For spare parts that are not covered by warranty, there is a charge
Delivery and stock	
Delivery time ^b .	Or as per agreement. Delivery from factory, transportation time is added.

^a If the device is purchased through a wholesaler or other supplier, other warranty conditions may apply.

^b In the case of larger orders, delivery time increases, acc. to agreement.

Operation and maintenance

Table 18. Operation

Operation	Data	Other. info
Environment	Outdoor Class 3.	
Operating temperature (permissible) ^a .	-25°C to +50°C	Class 3 according to EN 50131-6/ EN 60839-11
Load, power supply	80%	Average load shall not exceed 80% of the rated capacity of the power supply.

^a Specifies the permissible ambient temperature range in which the product can operate without damage. See also table on battery life.

Table 19. Maintenance

Yes	No	Interval	Other. info
	✓		Maintenance-free.

Certifications and approvals

Table 20. Approved according to

Complies with	Directives
PoE	IEEE 802.3af, IEEE 802.3at/30.8 W. Note that 802.3at type2 is not supported, as the PoE card does not have a type 2 handshake function.
Emissions	BS EN/EN55032 (CISPR32) Klasse B, BS EN/EN61000-3-2, -3, EAC TP TC 020, CNS13438, GB9254 Klasse B, GB17625.1
Immunity	EN61000-6-2:2005, EN61000-4-2, -3, 4, -5, -6, -11 SS-EN 50130-4:2011 Edition 2, EN50131-6
C.E.	CE marking according to Regulation (EC) No 765/2008
RoHS	RoHS Directive 2011/65/EU, including amendment (EU) 2015/863
EMC	EMC Directive 2014/30/EU
Electric (LVD)	Low Voltage Directive 2014/35/EU

Environmental data

Table 21. Environmental data

Environmental data	J/N	Informație	Other. info.
Building Product Declaration (BPD)	✓	Yes, see iBvd at www.milleteknik.se .	-
REACH Information Obligation (EC) No 1907/2006	✓	Yes, see the DoC at www.milleteknik.se The product complies with REACH Regulation (EC) No 1907/2006.	If empty, the product is not covered.
SVHC substances, CAS/EC	✓	Yes, lead, 7439-92-1/231-100-4	For text, see iBvd at www.milleteknik.se . If blank, substance is missing.
Subject to the RoHS Directive, (EU) 2015/863)	✓	Yes, see the DoC at www.milleteknik.se	
WEEE 2012/19/EU	✓	The product contains electrical components or wiring and is covered by the WEEE Directive (2012/19/EU).	If empty, the product is not covered. End-of-life products must be returned to a recycling centre
Battery Regulation (EU) 2023/1542	X		
SCIP No 2008/98/EC	✓	Yes, registered under the EU Waste Directive where applicable, (2008/98/EC).	If empty, no SCIP number is needed.
Conflict minerals (EU) 2017/821	X/ X/ X/ X/ ✓	No=Gold, Tungsten, Tantalum, Cobalt. Yes=Tin	Tin in solders in printed circuit boards purchased through a Swedish supplier.
Contains nanomaterials: EC 1272/2008	X	The product does not contain nanomaterials.	

Environ- mental da- ta	J/N	Informație	Other. in- fo.
Ecodesign 2009/125/E C		Milleteknik's products are intended for professional use and are therefore not directly covered by the Ecodesign Regulation (EU 2019/1782). As some components may be covered, we nevertheless disclose relevant information ^a , where applicable, to provide our customers with confidence in their choice.	
Machine Directive 2006/42/E C		The product is part of electrical systems, is subject to the relevant electrical and safety directives and is not a machine according to the Machinery Directive (2006/42/EC). Will be replaced by Machinery Regulation (EU) 2023/1230, which will apply in 2027.	
The product is designed for a long service life, which reduces the environmental impact. End-of-life products are handed over to the nearest recycling centre.			

^aStandby consumption and power.



Manufacturer and country of origin

Table 22. Manufacturer and country of origin

Manufacturer ^a	Milleteknik AB
Customs State. Nos.	85044095 ^b
Country of origin	Sweden

^aManufacturer is the trademark indicated on the product, regardless of what is stated in
this product sheet.
^bVerify with the Customs Ombud/Customs Service for export/import; alternative classifica-
tion 85044055 may become applicable if the product is assessed as a battery charger.

APPENDIX

Eligibility requirements, installation

Eligibility requirements vary between countries. The table summarizes national requirements for fixed installation and connection of equipment with a plug socket, respectively.

Options on the secondary side of the product, such as 12 V, 24 V or 48 V DC, are connected according to the respective instructions. Work on the network connection of the product shall be carried out in accordance with national eligibility requirements

Table 23. Eligibility requirements by country. Applies only to the installation of this product in a fixed network connection

Permis- sion Re- quire- ments for In- stalla- tion	Fixed instal- lation (230 V)	Plug	Other. info
Sweden	✓	✗	Fixed installation may be performed by technicians but shall be under the responsibility of a qualified installer. (Electrical Safety Act, SS 436 40 00) Plug may be connected without authorization.
Norway	✓	✓	Requirements for qualified electricians also for equipment with a plug socket in fixed installations. (NEK 400, DSB)
Finland	✓	✗	Plug may be connected without authorization. (Tukes, SFS 6000)
Denmark	✓	✗	Plug may be connected without authorization. (Safety Board)
Germany	✓	✗	All fixed installations require a qualified electrician according to VDE 0100. Plug sockets may be connected without authorization, but only by person with basic electrical knowledge ("Elektrotechnisch unterwiesene Person")

Miscellaneous

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

Table 24. Max power PoE.

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

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

Reference table: environmental classes according to EN 50130-5 (referred to in EN 50131-6)

Table 25. Reference table: environmental classes according to EN 50130-5 (referred to in EN 50131-6)

Class	Type	Tempera- ture range
Environmental Class 1	Heated indoors (type of office/residence).	+5°C to +40°C
Environmental Class 2	Generally indoors (type warehouses/stairwells, not temperature controlled).	-10°C to +40°C
Environmental class 3	Protected outdoors.	-25°C to +50°C
Environmental class 4	Generally outdoors.	-25°C to +60°C

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