PRODUCT SHEET

PoE

Product Identification

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

Product designation	Article number	E-number (SE) (SE)
Konverter PoE Managed 8p UT M	PL02P30024P100P-UTM	51 734 04

Technical description

PoE Switch Managed 8p UT M is a PoE managed switch with 8 pcs. PoE+ ports according to AT standard where all ports can deliver power at the same time. The unit has a fiber input and holds 2 x 12 V 20 Ah batteries in a thermally insulated space with heating element and thermostat for reliable outdoor use. The system logs temperature, current and voltage for continuous monitoring. The integrated managed switch provides remote access over the VPN for controlling ports (on/off) and reading the current power output. A separate 24 V load output is available for external equipment with higher power requirements, such as PTZ cameras. Prepared for external 4G/5G router

Table 2. Quick Facts

Quick Facts	
Supply voltage (V)	230V AC, +/- 10%, 47Hz- 63Hz
Voltage out (V)	27.3 V DC boosted to 54 V DC Also applicable in battery operation.
Batteries[a.]	2 x 20 Ah

[a.] Recommended. If batteries are included, it is indicated, otherwise batteries are ordered separately

Areas of application

Table 3. Areas of application

Areas of application	Yes	No
PowerWatch compatible	✓	
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. Max 1 A
Efficiency[a.]	87%
Standby consumption	Data is missing.
Voltage out	27.3 V DC boosted to 54 V DC Also applicable in battery operation.

Electrical data	
Current (A)[b.]	5A
Power (W)	30.8W per port

[a.] At rated load.

[b.] Power outlet/load is specified as max, normal current output should be 80% of max.

Table 5. Fuses

Fuses	
Mains fuse	2.5 A
Load fuses	Fuse on supply to PoE switch : T10A
Battery fuse	16A

Table 6. Printed circuit boards and Internal power consumption

Circuit Boards	Internal power consumption (during battery operation)	Other. info
PoE Switches Managed 8p	Data is missing	
PRO3	< 120 mA	All relays on external alarm board pulled in normal mode.

Load outputs

Table 7. Load outputs

Load outputs	
Number of loading outputs	PoE switch can drive load to eight PoE devices and motherboards can drive one (1) 24 V load output to power other applications.

Table 8. Total maximum load and recommended load.

Model	Recommended total load (80%)[a.]
10A	8A

[a.] Typically, 70-80% of the maximum load is recommended in continuous operation, depending on the thermal margins of the product.

Table 9. POE outputs

POE outputs	
Number of PoE ports (RJ-45)	8
PoE budget	600W
POE Budget/Max Power Per Port	30.8 W.
Number of LAN ports	2
Network ports/interfaces, RJ-45	1000Mbps
Managed	Yes

Alarm and protection

Table 10. Number of relay on which alarm can be given

Number of Relays	Alarm on switching relay?[a.]
0	✗

[a.] Relay, alternating potential-free contacts.

Table 11. Alarm over communication and on LED on motherboard PRO3

Alarms	Alarm via communication[a.]	Indication diode on main board.
Network outage	✓	✓
Fuse failure	✓	✓
Sabotage Breakers	✓	✓
Fan failure	✓	
Charger failure, overvoltage	✓	✓
Charger failure, undervoltage	✓	✓

Alarms	Alarm via communication[a.]	Indication diode on main board.
Cell failure or not connected battery	✓	✓
Low system voltage, (system voltage below 24.0 V in mains operation).	✓	✓
Low battery voltage (<24.0 V DC) or power failure	✓	✓
Over-temperature	✓	
Sub-temperature	✓	
Short battery life remaining	✓	
Aged battery	✓	✓
Overcurrent 80%, daily average	✓	
Overcurrent 100%, minute average	✓	
Over current 175%, second average	✓	

[a.] Applies to communication against the parent system, active only if configuration allows. PoE devices do not communicate with parent systems.

Table 12. Alarm and protection

Alarm and protection	Yes	No
Battery charge protection/controlled charging[a.]	✓ Batteries are charged with a maximum of 0.5 A.[b.]	
Deep discharge protection, see Battery [2][c.]	✓	
Overload Protection/Surge Protection	✓	
Over-temperature protection	✓	
Short circuit protection	✓	

[a.] Controlled charging protects and extends battery life.

[b.] Factory setting. Adjustable in PowerWatch

[c.] When the deep discharge protection is activated, the device turns off and the LED goes out.

Communication and Indications

Table 13. Communication and Indications

Communication and Indications	Yes	No	Other. info.
Communication	✓	✗	
RJ-45	✓		Refer to manual for alarms that PoE switch can provide.
Port control via connected computer	✓		
PowerWatch[a.]	✓		
Indicators/LEDs	✓		LED on circuit board.

[a.] PowerWatch consists of a cable and software, it is ordered separately.

Battery

Table 14. Technical data - Batteries

Battery	
Ref. Batteries[a.]	2 x 20 Ah
Battery type	Maintenance-free AGM (lead-acid) batteries
Deep discharge protection	Activates when the system voltage drops below about 20 V DC.

[a.] If batteries are included, it is indicated, otherwise batteries are ordered separately.

Enclosure and Mechanics

Table 15. Enclosure and Mechanics

Enclosure and Mechanics	
Type	Pole
IP class	IP65
Material	Fiberglass Reinforced Acrylic Plastic
Colour	Beige
Cable grommets	10 pcs
Lock	✗ Locks are available as an option.
Fan in enclosure	✓

Assembly, installation and eligibility requirements

Table 16. Fitting

Fitting	Yes	No
Pole.	✓	

Table 17. Installation

Installation	Yes	No
Fixed installation.	✓	

Dimensions, weight and packaging information

Table 18. Dimensions

Dimensions, (WxHxD).	Dimensions with packaging[a.]
486 x 530 x 286 mm	550 x 500 x 300 mm

[a.] Dimensions (WxHxD) of product and packaging may differ, this is because the product may be oriented differently in the package.

Table 19. Weight

Net weight	Weight with packaging
14.5 kg	14.7 kg

Table 20. Packaging

Packaging	
Packaging	Cardboard and plastic shock protection.
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

The accessories fits in

Table 21. The option fits the following enclosures

Accessories	Enclosure

Contact

Table 22. 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

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COMPLIANCE AND REGULATORY COMPLIANCE

Delivery time, warranty and terms

Table 23. Delivery time, warranty and terms

Delivery time, warranty and terms	
Warranty period[a.]	The product has a two (2) year warranty against manufacturing defects.
Special warranty conditions	Batteries and wear parts are not covered by 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.]	10 working days. 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 24. 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.
Ventilation, free distance around the enclosure.	100 mm	Ventilation openings must not be blocked or covered.

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

Table 25. Maintenance

Yes	No	Interval	Other. info
✓		Annually	The fan should be cleaned annually. Battery terminal voltage must be measured. Ensure that the average load does not exceed 80% of the rated capacity of the power supply.

Certifications and approvals

Table 26. Approved according to

Complies with	Directives
PoE	IEEE 802.3af, IEEE 802.3at/30.8 W up to type2, class 4.
Emissions	
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 (EC) 765/2008
EMC	EMC Directive 2014/30EU
Electric (LVD)	Low Voltage Directive: 2014/35/EU

Environmental data

Table 27. 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	✗		
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	✗/ ✗/ ✗/ ✗/✓	No=Gold, Tungsten, Tantalum, Cobalt. Yes=Tin	Tin in solders in printed circuit boards purchased through a Swedish supplier.
Contains nanomaterials: EC 1272/2008	✗	The product does not contain nanomaterials.	

Environmental data	J/N	Informaţie	Other. info.
Ecodesign 2009/125/EC	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/EC	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 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.[b.]Contact your distributor for more information.			

[a.]Standby consumption and power.

[b.]Costs incurred in connection with recycling are not reimbursed.

CE

Manufacturer and country of origin

Table 28. Manufacturer and country of origin

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

[a.]Manufacturer is the trademark indicated on the product, regardless of what is stated in this product sheet.

[b.]Verify with the Customs Ombud/Customs Service for export/import; alternative classification 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 29. Eligibility requirements by country. Applies only to the installation of this product in a fixed network connection

Permission Requirements for Installation	Fixed installation (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”)

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

Table 30. Reference table: environmental classes according to EN 50130-5 (referred to in EN 50131-6)

Class	Type	Temperature range
Environmental Class 1	Heated indoors (type 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

Miscellaneous

Reference table: manufacturer's stated service life and recommended battery replacement

Table 31. Reference table: manufacturer's stated service life and recommended battery replacement

Battery Type (Design Life)[a.]	Battery replacement time in normal operation, +20°C.	Replacement during hot operation, +30°C	Replacement during hot operation, +40°C
3 - 5 years	2 - 3 years	1 - 1.5 years	0.5 - 0.75 years
6 - 9 years	5 - 6 years	2.5 - 3 years	1.2 - 1.5 years
10 - 12 years	6 - 7 years	3 - 3.5 years	1.5 - 1.75 years
15 + years	10 - 12 years	5 - 6 years	2.5 - 3 years

[a.] Valid in case of completely unused battery stored under optimal conditions.

About this information

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

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