

IE-SW-SPE05-4T1LMPODL-1TX**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

The unmanaged SPE switch from Weidmüller offers the solution for reliable and efficient networking. It enables the bridging of large distances of up to 1,000 m using the SPE standard 10Base-T1L (10 Mbit/s). Using this switch eliminates the need for subsystems or gateways, simplifying the network infrastructure and reducing complexity.

- Simple and space-saving installation, as both data transmission and power supply are provided via only one pair of wires (PoDL classes 10 - 14, up to 50 W, SCCP support)
- The unmanaged SPE switch from Weidmüller is compatible with all Ethernet and IP-based protocols and can be used universally
- Provides a reliable and efficient way to optimize network connectivity and increase system efficiency

General ordering data

Order No.	3012120000
Type	IE-SW-SPE05-4T1LMPODL-1TX
GTIN (EAN)	4099986918344
Qty.	1 items

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Technical data

Approvals

Approvals



ROHS Conform

UL File Number Search [UL Website](#)

Certificate no. (cULus) E141197

Dimensions and weights

Depth	108.3 mm	Depth (inches)	4.2638 inch
Height	145.1 mm	Height (inches)	5.7126 inch
Width	28 mm	Width (inches)	1.1024 inch
Net weight	530 g		

Temperatures

Storage temperature	40 °C...85 °C	Operating temperature	-40 °C...70 °C
Humidity	5 to 98% (non-condensing)		

Environmental Product Compliance

RoHS Compliance Status	Compliant with exemption
RoHS Exemption (if applicable/known)	7a, 7cl
REACH SVHC	Lead 7439-92-1, Lead monoxide 1317-36-8
SCIP	9229992a-00b9-4096-8962-200a7f33e289

EMC conformity and approvals

Free fall	According to IEC 60068-2-32	EMC standards	EN 61000-6-2, EN 61000-6-4
Vibration	according to IEC 60068-2-6	Shock	according to IEC 60068-2-27
Railway	EN 50121-4	Safety standard	UL 61010-1, UL 61010-2-201

Environmental conditions

Operating temperature, max.	70 °C
Operating temperature, min.	-40 °C
Humidity	5 to 98% (non-condensing)
Storage temperature, max.	85 °C
Storage temperature, min.	40 °C
Operating altitude	Altitude, max. 2000 m

Guarantee

Time interval	5 years
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Interfaces

RJ45 ports	10/100BaseT(X), auto negotiation, Full-/half-duplex mode, Auto MDI/MDI-X port	Function DIP switch	MAC frame filtering (on/off), QoS (on/off), SPE-T1L (on/off), SPE-T1L (master/slave), PoDL (on/
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Number of ports	1x RJ45, 4x SPE port acc. to IEC 63171-2	LED indicator	off), PoDL SCCP (on/off), PoDL (24V/50V) Power LED: PWR, Port LED: LNK/ACT, 10/100M (RJ45 port), Port LED: LNK/ACT, 10M (SPE port), PoDL indicator
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MTBF

MTBF	According to Standard	Telcordia SR-332
	Operating time (hours), min.	692776 h
	Input voltage	24 V

Management features

Network traffic filter	Quality of Service (QoS)	Industrial protocol support	PROFINET device acc. to conformance class A
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Power supply

Reverse polarity protection	Yes
Supply voltage	1 single input
Overload current protection	Yes
Connection type	1 removable 2-pin terminal block
Voltage supply range	Voltage type DC Voltage, min. 20 V Voltage, max. 30 V
Current consumption	Voltage 24 V Voltage type DC Current consumption with Powered Device (PD) 3.47 A Current consumption without Powered Device (PD) 0.09 A

Switch characteristics

Priority queues	4	MAC table size	1 K
Packet buffer size	128 kbit	Bandwidth backplane	280 Mbit/s

Technical data

Housing main material	Metal
Type of mounting	DIN rail
Protection degree	IP30
Speed	Fast Ethernet, 10BaseT1L
PoDL output power	Standard IEEE 802.3cg Voltage according to PoDL class 24 V PoDL class 10 Output power 1.85 W Standard IEEE 802.3cg Voltage according to PoDL class 24 V PoDL class 11 Output power 4.8 W Standard IEEE 802.3cg Voltage according to PoDL class 24 V PoDL class 12 Output power 12.63 W Standard IEEE 802.3cg Voltage according to PoDL class 50 V

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	PoDL class	13
	Output power	11.54 W
	Standard	IEEE 802.3cg
	Voltage according to PoDL class	50 V
	PoDL class	14
	Output power	30 W
Switch	unmanaged	
PoDL power budget	Voltage type	DC
	Voltage, min.	24 V
	Voltage, max.	30 V
	Power budget	80 W

Technology

Data switching	Store and Forward	Flow control	IEEE 802.3x flow control
Standard	IEEE 802.3 for 10BASE-T, IEEE 802.3u for 100BASE-TX, IEEE 802.3x for flow control, IEEE 802.3cg for 10Base-T1L		

Important note

Product information	Only powered devices with the same voltage can be operated at the same time.
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Classifications

ETIM 8.0	EC000734	ETIM 9.0	EC000734
ETIM 10.0	EC000734	ECLASS 14.0	19-17-04-02
ECLASS 15.0	19-17-04-02		