

Industrial Ethernet IE-SW-PL18M-2GC14TX2ST

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Product image



Weidmüller's Premium Line consists of high-end switches with advanced management and security features. It is suitable for demanding network solutions. The equipment can be delivered with Fast Ethernet or Gigabit Ethernet ports. One variety is fitted with Fast Ethernet and Power-over-Ethernet ports. With their advanced ring redundancy technology (recovery time ≤ 20 ms), these devices raise the reliability and availability of your industrial networks. The optional SFP transceiver can be fitted offering a high degree of flexibility. Gigabit versions permit use in networks with a high volume of communications

- Managed Fast Ethernet versions in a high-quality metal housing (IP 30)
- Managed Power-over-Ethernet (PoE) switch with 6 Fast Ethernet ports, 4 of them PoE+ ports
- Versions with 10 or 18 ports and Gigabit uplink ports
- Full Gigabit switch with 9 ports
- Supports all standard TCP/IP-based protocols in industrial networks (for example Ethernet/IP, Modbus/TCP)
- Integrated redundancy mechanisms (recovery time ≤ 20 ms) increase the reliability in network ring structures
- Approvals: CE, FCC, cULus, Class I Div. 2 / ATEX, DNV / GL

General ordering data

Type	IE-SW-PL18M-2GC14TX2ST
Order No.	1241340000
Version	Network switch, managed, Fast/Gigabit Ethernet, Number of ports: 14 * RJ45 10/100BaseT(X), 2 * ST Multi-mode, 2 * combo-ports (10/100/1000BaseT(X) or 1000BaseSFP), IP30, 0 °C...60 °C
GTIN (EAN)	4050118029352
Qty.	1 pc(s).

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Technical data

Dimensions and weights

Width	94 mm	Width (inches)	3.701 inch
Height	135 mm	Height (inches)	5.315 inch
Depth	142.7 mm	Depth (inches)	5.618 inch
Weight	1,630 g	Net weight	1,630 g

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
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EMC conformity and approvals

EMC standards	EN 55032, EN 55024, CISPR 32, FCC Part 15 Subpart B Class A, IEC 61000-4-2 ESD: Contact: 6 kV; Air: 8 kV, IEC 61000-4-3 RS: 80 MHz bis 1 GHz: 10 V/m, IEC 61000-4-4 EFT: Power: 1 kV; Signal: 0,5 kV, IEC 61000-4-5 Surge: Power: 2 kV; Signal: 1 kV, IEC 61000-4-6 CS: 10 V, IEC 61000-4-8	Explosive risk zone	UL/cUL, Class I, Division 2, Groups A, B, C and D, ATEX Zone 2 Ex nA nC IIC T4 Gc
Free fall	according to IEC 60068-2-32	Security	UL508, UL60950-1, CSA C22.2 No. 60950-1, EN60950-1
Ship use	DNV-GL	Shock	according to IEC 60068-2-27
Vibration	according to IEC 60068-2-6		

Environmental conditions

Humidity	5 to 95 % (non-condensing)	Operating temperature, max.	60 °C
Operating temperature, min.	0 °C	Storage temperature, max.	85 °C
Storage temperature, min.	-40 °C		

Fibre optic 100BaseFX

Link budget multimode	12 dB	Max. TX multi-mode	-10 dBm
Min. TX multi-mode	-20 dBm	Receive sensitivity multi-mode	-32 dBm
System reserve multi-mode		Typical distances multi-mode	5 km (50/125 µm, multi-mode cable), 4 km (62.5/125 µm multi-mode cable)
	-6 dBm		
Wavelength multi-mode	1,300 nm		

Guarantee

Time interval	5 years
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Interfaces

Alarm contact	2 relay outputs with a current capacity of 1 A at 24 V DC	Console port interface	RS-232
Digital inputs	2 inputs with the same ground, isolated +13 To +30 V for logic "1" -30 To +3 V for logic "0" - Max. input current: 8 mA	Fibre-optic ports	100BaseFX ports (ST connector), Multimode, 1000BaseSFP-Slot
LED indicator		Note 1	When connecting a single-mode fiber transceiver over a short distance, we recommend using an attenuator to prevent the transceiver from being damaged by excessive optical power.
	PWR1, PWR2, FAULT, MSTR/HEAD, CPLR/TAIL, 10/100M (TP-Port), 100M (fibre-optic port), 1000M (Gigabit-Port)		
Number of ports	14 * RJ45 10/100BaseT(X), 2 * ST Multi-mode, 2 * combo-ports (10/100/1000BaseT(X) or 1000BaseSFP)	RJ45 ports	10/100BaseT(X) or 10/100/1000BaseT(X), auto negotiation

MTBF

MTBF	240,000 hrs	MTBF	Telcordia (Bellcore), GB
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Power supply

Connection type	2 removable 6-pin terminal blocks	Current consumption	0.61 A at 24 V
Overload current protection	Existing	Reverse polarity protection	Available
Supply voltage, max	45 V DC	Supply voltage, min.	12 V DC
Voltage supply	24 V DC, 2 redundant inputs		

Switch characteristics

IGMP-Groups	256	MAC table size	8 K
Max. number of available VLANs	64	Packet buffer size	2 Mbit
Priority queues	4	VLAN-ID max	4,094
VLAN-ID min	1		

Technical data

Housing main material	metal	Protection degree	IP30
Type of mounting	Rail		

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Technology

Flow control		MIB	MIB-II, Ethernet-Like MIB, P-BRIDGE MIB, Q-BRIDGE MIB, Bridge MIB, RSTP MIB, RMON MIB Group 1, 2, 3, 9
	IEEE 802.3x flow control, Back pressure flow control		
Protocol		Standard	IEEE 802.3 for 10BaseT, IEEE 802.3u for 100BaseT(X) und 100BaseFX, IEEE 802.3ab for 1000BaseT(X), IEEE 802.3z for 1000BaseX, IEEE 802.3x for flow control, IEEE 802.1D for the Spanning Tree protocol, IEEE 802.1w for Rapid STP, IEEE 802.1Q for VLAN tagging, IEEE 802.1p for Class of Service, IEEE 802.1X for authentication, IEEE 802.3ad for port trunk with LACP
	IGMPv1/v2, GMRP, GVRP, SNMPv1/v2c/v3, DHCP Server/Client, BootP, TFTP, SNTP, SMTP, RARP, RMON, HTTP, HTTPS, Telnet, Syslog, DHCP option 66/67/82, SSH, SNMP Inform, Modbus/TCP, LLDP, IEEE 1588 PTP, IPv6		

Classifications

ETIM 4.0	EC002598	ETIM 5.0	EC002598
ETIM 6.0	EC000734	eClass 6.2	19-17-01-06
eClass 7.1	19-17-01-06	eClass 8.1	19-17-01-06
eClass 9.0	19-17-01-06	eClass 9.1	19-17-01-06

Approvals

Approvals



ROHS

Conform

Downloads

Approval/Certificate/Document of Conformity	ODVA Certificate DNV-GL certificate ATEX certificate EU Declaration of Conformity
Brochure/Catalogue	CAT 9 IETH 15/16 EN
Product Change Notification	Firmware Release Notes
Software	SNMP MIB file GSDML IE-SW-PL18M-series EDS IE-SW-PL18M-series Managed Switch Configuration Utility Firmware Version 3.4.4
User Documentation	Hardware Installation Guide Manual