

Industrial Ethernet IE-SW-PL16M-14TX-2ST

Weidmüller Interface GmbH & Co. KG
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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-PL16M-14TX-2ST
Order No.	1241130000
Version	Network switch, managed, Fast Ethernet, Number of ports: 14x RJ45, 2 * ST Multi-mode, IP30, 0 °C...60 °C
GTIN (EAN)	4050118029024
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
Net weight	1,586 g		

Environmental Product Compliance

REACH SVHC Lead 7439-92-1

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 to 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	Safety standard	UL508, UL 60950-1, EN 60950-1
Explosive risk zone	UL/cUL, Class I, Division 2, Groups A, B, C and D, ATEX Zone 2 Ex nA nC IIC T4 Gc	Shock	according to IEC 60068-2-27
Vibration	according to IEC 60068-2-6	Free fall	According to IEC 60068-2-32

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 transceiver characteristics

Transmission rate	100 Mbps		
Transceiver type	Multimode		
Connector type	ST-Duplex		
Transmission distance, typ.	5 km		
Wavelength	typ.	1,300 nm	
	Wavelength	TX	
	min.	1,260 nm	
	max.	1,360 nm	
	Wavelength	RX	
	min.	1,100 nm	
Receive power	min.	-32 dBm	
	max.	-3 dBm	
Transmission power	min.	-20 dBm	
	max.	-10 dBm	
Link-budget	12 dB		

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Technical data
Guarantee

Time interval 5 years

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 <ul style="list-style-type: none"> +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
LED indicator	PWR1, PWR2, FAULT, MSTR/HEAD, CPLR/TAIL, 10/100M (TP-Port), 100M (fibre-optic port).	Number of ports	14x RJ45, 2 * ST Multimode
RJ45 ports	10/100BaseT(X), auto negotiation, Full-/half-duplex mode, Auto MDI/MDI-X port		

MTBF

MTBF 247,000 hrs Database Telcordia (Bellcore), GB

Power supply

Connection type	2 removable 6-pin terminal blocks		
Current consumption	Voltage	24 V DC	
	Current	0.51 A	
Overload current protection	Existing		
Reverse polarity protection	Yes		
Voltage supply	12/24/48 V DC, 2 redundant inputs		
Voltage supply range	Voltage type	DC	
	Voltage, min.	12 V	
	Voltage, max.	45 V	

Switch characteristics

Bandwidth backplane	3.2 Gbps	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	DIN rail, Panel (with optional mounting kit)		

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Technical data

Technology

Data switching	Store and Forward	Flow control	IEEE 802.3x flow control, Back pressure 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	Protocol	IGMPv1/v2, GVRP, SNMPv1/v2c/v3, DHCP Server/Client, BootP, TFTP, SNTP, SMTP, RARP, GMRP, LACP, RMON, HTTP, HTTPS, Telnet, Syslog, DHCP option 66/67/82, SSH, SNMP Inform, PROFINET, EtherNet/IP, Modbus/TCP, LLDP, IEEE 1588 PTP, IPv6
Standard	IEEE 802.3 for 10BaseT, IEEE 802.3u for 100BaseT(X) and 100BaseFX, IEEE 802.3x for flow control, IEEE 802.1D-2004 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		

Classifications

ETIM 6.0	EC000734	ETIM 7.0	EC000734
eClass 9.0	19-17-01-06	eClass 9.1	19-17-01-06
eClass 10.0	19-17-04-01		

Approvals

Approvals			
ROHS	Conform		

Data sheet**Industrial Ethernet
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Technical data**Downloads**

Approval/Certificate/Document of Conformity	ODVA Certificate DNV-GL certificate ATEX certificate EU Declaration of Conformity
Brochure/Catalogue	CAT 9 IETH 18/19 EN
Engineering Data	STEP
Product Change Notification	Firmware Release Notes
Software	SNMP MIB file GSDML IE-SW-PL16M-series EDS IE-SW-PL16M-series Managed Switch Configuration Utility Firmware Version 3.4.18
User Documentation	Hardware Installation Guide Manual 20191204 Security Advisory IE Managed Switches

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Accessories

Mounting kit for 19" rack assembly

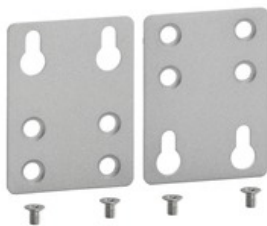
- For assembling DIN rail-based devices on 19" racks



General ordering data

Type	RM-KIT	Version
Order No.	1241440000	Kit for 19"-rack mounting
GTIN (EAN)	4050118029154	
Qty.	1 pc(s).	

Mounting kit for wall mounting



Mounting kit for alternative wall-mounting of DIN rail-based (top-hat type) Industrial Ethernet components.

IE-WALLMOUNT-KIT-30MM for use with:

- Industrial Ethernet Switches of the product range **IE-SW-BL05**

IE-WALLMOUNT-KIT-46MM for use with:

- Industrial Ethernet Switches of the product ranges **IE-SW- BL06/BL08/VL05/VL08/VL09/VL16/PL06/PL08/PL09/PL10/PL16/PL18**
- Industrial Ethernet media converters of the product range **IE-MC-VL**
- Industrial Ethernet switches of the product range **IE-WL-AP**

General ordering data

Type	IE-WALLMOUNT-KIT-46MM
Order No.	1504440000
GTIN (EAN)	4050118312317
Qty.	1 pc(s).

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Accessories

Configuration module



Module for saving and loading a device configuration

- Reduced system downtime by simple reconfiguration if equipment is swapped over
- Automatic loading of the saved configuration possible after device restart
- Compact and robust design
- Useable with all Weidmüller managed switches and industrial WLAN devices

General ordering data

Type	EBR-MODULE RS232	Version	
Order No.	1241430000	Configuration module, IP40, 0 °C...60 °C	
GTIN (EAN)	4050118029086		
Qty.	1 pc(s).		

Ethernet (Cat.6)



- Suitable for Cat. 5 (up to 100 MHz) and Cat. 6 (up to 250 MHz Class E)
- Suitable for PoE+ (according to IEEE 802.3at, IEEE 802.3bt Type 3 and 4)
- Protection of all wire pairs
- Connection via RJ45 sockets
- Metal housing

General ordering data

Type	VDATA CAT6	Version	
Order No.	1348590000	Terminal rail fixing, Surge protection, 1 A, According to IEC61643-21	
GTIN (EAN)	4050118153002		
Qty.	1 pc(s).		