

IE-SW-PL08M-6TX-2ST
Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com
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. 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)
- 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

Version	Network switch, managed, Fast Ethernet, Number of ports: 6x RJ45, 2 * ST Multi-mode, IP30, 0 °C...60
Order No.	1241080000
Type	IE-SW-PL08M-6TX-2ST
GTIN (EAN)	4050118028898
Qty.	1 items
Delivery status	Discontinued
Available until	2022-06-01T00:00:00+02:00
Alternative product	IE-SW-AL10M-8TX-2GC

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Technical data

Approvals

Approvals



ROHS	Conform
UL File Number Search	UL Website
Certificate no. (cULus)	E230683
Certificate no. (cULusEX)	E344136

Dimensions and weights

Depth	105	Depth (inches)	4.1338 inch
Height	135 mm	Height (inches)	5.3149 inch
Width	80.2 mm	Width (inches)	3.1575 inch
Net weight	1040 g		

Temperatures

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

Environmental Product Compliance

RoHS Compliance Status	Compliant
REACH SVHC	Lead 7439-92-1
SCIP	9229992a-00b9-4096-8962-200a7f33e289

EMC conformity and approvals

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
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	Vibration	according to IEC 60068-2-6
Shock	according to IEC 60068-2-27	Ship use	DNV
Safety standard	UL508, UL 60950-1, EN 60950-1		

Environmental conditions

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

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Fibre optic transceiver characteristics

Transmission rate	100 Mbps	
Transceiver type	Multimode	
Connector type	ST-Duplex	
Transmission distance, typ.	5 km	
Wavelength	typ.	1300 nm
	Wavelength	TX
	min.	1260 nm
	max.	1360 nm
	Wavelength	RX
	min.	1100 nm
	max.	1600 nm
Receive power	min.	-32 dBm
	max.	-3 dBm
Transmission power	min.	-20 dBm
	max.	-10 dBm
Link-budget	12 dB	

Guarantee

Time interval	5 years
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Interfaces

Fibre-optic ports	100BaseFX ports (ST connector), Multimode	RJ45 ports	10/100BaseT(X), auto negotiation, Full-/half-duplex mode, Auto MDI/MDI-X port
Console port interface	RS-232	Function DIP switch	Turbo-Ring, Master, Coupler, Reserve
Alarm contact	2 relay outputs with a current capacity of 1 A at 24 V DC	Number of ports	6x RJ45, 2 * ST Multimode
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	LED indicator	PWR1, PWR2, FAULT, MSTR/HEAD, CPLR/TAIL, 10/100M (TP-Port), 100M (fibre-optic port).

MTBF

MTBF	According to Standard	Telcordia (Bellcore), GB
	Operating time (hours), min.	339000 h

Management features

Device configuration	Webbrowser (HTTP/HTTPS), SNMP v1/v2c/v3, Telnet console, Local serial console port (RS-232 via RJ-45 port), Windows tool	Monitoring function	SNMP v1/v2c/v3, Link Layer Discovery Protocol (LLDP), Port mirroring, Port statistics, Port monitoring, Syslog, RMON (Remote monitoring), Event based warning via E-Mail, Event based warning via relay, Event based warning via SNMP trap
Network redundancy	Spanning Tree Protocol (STP), Rapid Spanning	Network traffic filter	Quality of Service (QoS), Tag based VLAN, Port

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	Tree Protocol (RSTP), Turbo-Ring (recovery time <20 ms), Turbo-Chain (recovery time <20 ms), Link Aggregation Control Protocol (LACP)		based VLAN, IGMP v1/v2, GMRP, Traffic Rate Limiting
IP-address management	Static, BootP, RARP, DHCP-Client, DHCP-Server (port based), DHCP Option 82 (Relay Agent)	Security functions	VLAN segmentation, Enable/disable ports, Access control (port based via IEEE 802.1X), Access control list (MAC-based), Loop protection, TACACS + and IEEE 802.1X User Authentication
Time synchronization management	SNTP client, NTP client, PTPv1	Industrial protocol support	PROFINET device acc. to conformance class B, EtherNet/IP, Modbus/TCP slave

Power supply

Reverse polarity protection	Yes	
Supply voltage	12/24/48 V DC, 2 redundant inputs	
Overload current protection	Existing	
Connection type	2 removable 6-pin terminal blocks	
Voltage supply range	Voltage type	DC
	Voltage, min.	12 V
	Voltage, max.	45 V
Current consumption	Voltage	24 V
	Current	0.36 A

Switch characteristics

Priority queues	4	Max. number of available VLANs	64
VLAN-ID min	1	VLAN-ID max	4094
IGMP-Groups	256	MAC table size	8 K
Packet buffer size	1 Mbit	Bandwidth backplane	1.6 Gbit/s

Technical data

Housing main material	metal	Type of mounting	DIN rail, Panel (with optional mounting kit)
Protection degree	IP30	Speed	Fast Ethernet
Switch	managed		

Technology

MIB	MIB-II, Ethernet-Like MIB, P-BRIDGE MIB, Q-BRIDGE MIB, Bridge MIB, RSTP MIB, RMON MIB Group 1, 2, 3, 9	Data switching	Store and Forward
Flow control	IEEE 802.3x flow control, Back pressure flow control	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

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Service, IEEE 802.1X
for authentication, IEEE
802.3ad for port trunk
with LACP

Classifications

ETIM 8.0	EC000734	ETIM 9.0	EC000734
ETIM 10.0	EC000734	ECLASS 14.0	19-17-04-01
ECLASS 15.0	19-17-04-01		

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Accessories

Configuration backup and restore module (for use with switches of Value- and PremiumLine such as Basic- and ValueLine WLAN devices)


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 ST	

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 ST	

Ethernet


- 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

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Type	VDATA CAT6	Version
Order No.	1348590000	Terminal rail fixing, Surge protection, Cat.6, PoE, 802.3 bt at Type 1,
GTIN (EAN)	4050118153002	802.3 bt at Type 2, 802.3 bt at Type 3, 802.3 bt at Type 4
Qty.	1 ST	