

## Industrial Ethernet IE-SW-PL18M-2GC-16TX

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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  $\leq 20$  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  $\leq 20$  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-2GC-16TX
Order No.	<a href="#">1241320000</a>
Version	Network switch, managed, Fast/Gigabit Ethernet, Number of ports: 16x RJ45 10/100BaseT(X), 2 * combo-ports (10/100/1000BaseT(X) or 1000BaseSFP), IP30, 0 °C...60 °C
GTIN (EAN)	4050118029079
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	1,630 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	Ship use	DNV-GL
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		

**Guarantee**

Time interval 5 years

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**Technical data**
**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"> <li>+13 To +30 V for logic "1"</li> <li>-30 To +3 V for logic "0"</li> <li>Max. input current: 8 mA</li> </ul>	Fibre-optic ports	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.
Number of ports	PWR1, PWR2, FAULT, MSTR/HEAD, CPLR/TAILO, 10/100M (TP-Port), 1000M (Gigabit-Port) 16x RJ45 10/100BaseT(X), 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	Database	Telcordia (Bellcore), GB
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**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	Available		
Voltage supply	24 V DC, 2 redundant inputs		
Voltage supply range	Voltage type	DC	
	Voltage, min.	12 V	
	Voltage, max.	45 V	

**Switch characteristics**

Bandwidth backplane	7.2 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), IEEE 802.3ab for 1000BaseT(X), IEEE 802.3z for 1000BaseX, 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		

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**Technical data****Downloads**

Approval/Certificate/Document of Conformity	<a href="#">ODVA Certificate</a> <a href="#">PNO Certificate</a> <a href="#">DNV-GL certificate</a> <a href="#">ATEX certificate</a> <a href="#">EU Declaration of Conformity</a>
Brochure/Catalogue	<a href="#">CAT 9 IETH 18/19 EN</a>
Engineering Data	<a href="#">STEP</a>
Product Change Notification	<a href="#">Firmware Release Notes</a>
Software	<a href="#">SNMP MIB file</a> <a href="#">GSDML IE-SW-PL18M-series</a> <a href="#">EDS IE-SW-PL18M-series</a> <a href="#">Managed Switch Configuration Utility</a> <a href="#">Firmware Version 3.4.30</a>
User Documentation	<a href="#">Hardware Installation Guide</a> <a href="#">Manual</a> <a href="#">20191204 Security Advisory IE Managed Switches</a>