

## IE-SW-PL16M-16TX

Weidmüller Interfaces GmbH & Co. KG

Postfach 3030

32760 Detmold

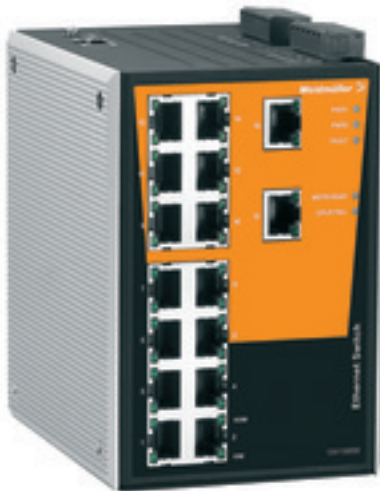
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### Product image



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. 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)
- 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

Version	Network switch, managed, Fast Ethernet, Number of ports: 16x RJ45, IP30, 0 °C...60 °C
Order No.	<a href="#">1241100000</a>
Type	IE-SW-PL16M-16TX
GTIN (EAN)	4050118028881
Qty.	1 pc(s).

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## Technical data

## Dimensions and weights

Depth	142.7 mm	Depth (inches)	5.618 inch
Height	135 mm	Height (inches)	5.315 inch
Width	94 mm	Width (inches)	3.701 inch
Net weight	1,586 g		

## Temperatures

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

## 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	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	Safety standard	UL508, UL 60950-1, EN 60950-1
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		

## 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 <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>	LED indicator	PWR1, PWR2, FAULT, MSTR/HEAD, CPLR/TAIL, 10/100M (TP-Port)
Number of ports	16x RJ45	RJ45 ports	10/100BaseT(X), auto negotiation, Full-/half-duplex mode, Auto MDI/MDI-X port

Creation date March 10, 2023 8:43:11 AM CET

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## MTBF

MTBF	According to Standard	Telcordia (Bellcore) GR
	Operating time (hours), min.	247,000 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 Tree Protocol (RSTP), Turbo-Ring (recovery time <20 ms), Turbo-Chain (recovery time <20 ms), Link Aggregation Control Protocol (LACP)	Network traffic filter	Quality of Service (QoS), Tag based VLAN, Port 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

Connection type	2 removable 6-pin terminal blocks	
Current consumption	Voltage	24 V DC
	Current	0.41 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

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**Technical data**

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

**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	Standard	IEEE 802.3 for 10BaseT, IEEE 802.3u for 100BaseT(X), 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**

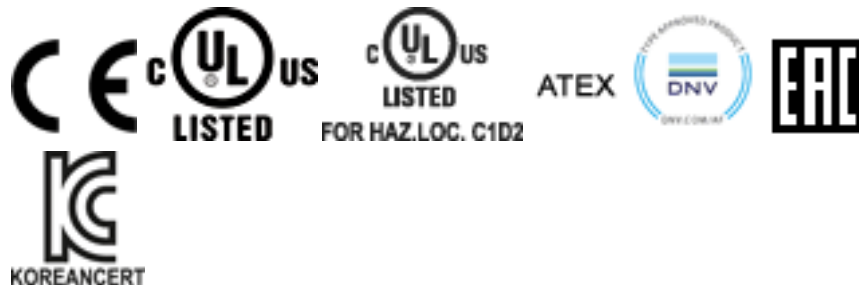
ETIM 6.0	EC000734	ETIM 7.0	EC000734
ETIM 8.0	EC000734	ECLASS 9.0	19-17-01-06
ECLASS 9.1	19-17-01-06	ECLASS 10.0	19-17-04-01
ECLASS 11.0	19-17-04-01	ECLASS 12.0	19-17-04-01

**Environmental Product Compliance**

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

**Approvals**

Approvals



ROHS	Conform
UL File Number Search	UL Website
Certificate no. (cULus)	E141197
Certificate no. (cULusEX)	E223527

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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 certificate</a> <a href="#">ATEX certificate</a> <a href="#">KC certificate</a> <a href="#">EU Declaration of Conformity</a> <a href="#">UK Declaration of Conformity</a>
Engineering Data	<a href="#">CAD data – STEP</a>
Product Change Notification	<a href="#">Firmware Release Notes</a>
Software	<a href="#">Software – Managed Switch Configuration Utility</a> <a href="#">Device description – SNMP MIB file</a> <a href="#">Device description – GSDML IE-SW-PL16M-series</a> <a href="#">Firmware – Firmware Version 3.4.18</a> <a href="#">Device description – EDS IE-SW-PL16M-series</a>
User Documentation	<a href="#">Hardware Installation Guide</a> <a href="#">Manual</a> <a href="#">20191204 Security Advisory - Multiple vulnerabilities in IE Managed Switches</a>
Catalogues	<a href="#">Catalogues in PDF-format</a>
Brochures	