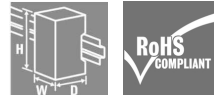


Industrial Ethernet IE-SW-PL16M-14TX-2SC

Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 16
 D-32758 Detmold
 Germany
 Fon: +49 5231 14-0
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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-2SC |
| Order No. | 1241120000 |
| Version | Network switch, managed, Fast Ethernet, Number of ports: 14x RJ45, 2 * SC Multi-mode, IP30, 0 °C...60 °C |
| GTIN (EAN) | 4050118028874 |
| 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 | 1,586 g | Net weight | 1,588 g |

Environmental Product Compliance

REACH SVHC Lead 7439-92-1

EMC conformity and approvals

| | | | |
|---------------|---|---------------------|---|
| EMC standards | FCC Part 15, CISPR (EN55022) Class A, EN 61000-4-2 (ESD), Stage 2, EN 61000-4-3 (RS), Stage 3, EN 61000-4-4 (EFT), Stage 3, EN 61000-4-5 (surge voltage), Stage 3, EN 61000-4-6 (CS), Stage 3, EN 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 | -6 dBm | Typical distances multi-mode | 5 km (50/125 µm multi-mode cable), 4 km (62.5/125 µm multi-mode cable) |
| Wavelength multi-mode | 1,300 nm | | |

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"> • +13 To +30 V for logic "1" • -30 To +3 V for logic "0" • Max. input current: 8 mA | Fibre-optic ports | 100BaseFX ports (SC 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 * SC Multimode |
| RJ45 ports | 10/100BaseT(X), auto negotiation, Full-/half-duplex mode, Auto MDI/MDI-X port | | |

MTBF

| | | | |
|------|-------------|------|--------------------------|
| MTBF | 247,000 hrs | MTBF | Telcordia (Bellcore), GB |
|------|-------------|------|--------------------------|

Power supply

| | | | |
|-----------------------------|-----------------------------------|-----------------------------|----------------|
| Connection type | 2 removable 6-pin terminal blocks | Current consumption | 0.51 A at 24 V |
| Overload current protection | Existing | Reverse polarity protection | Available |
| Supply voltage | 24 V DC, 2 redundant inputs | Supply voltage, max | 45 V DC |
| Supply voltage, min. | 12 V DC | | |

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 | Mounting rail | | |

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Technical data**Technology**

| | | | |
|--------------|--|----------|--|
| 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, Modbus/TCP, LLDP, IEEE 1588 PTP, IPv6 | Standard | IEEE 802.3 for 10BaseT, IEEE 802.3u for 100BaseT(X) und 100BaseFX, 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 |

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 DE_PN4800_160418_004.pdf |
| Brochure/Catalogue | CAT 9 IETH 15/16 EN |
| Product Change Notification | Release Notes |
| Software | SNMP MIB file GSDML IE-SW-PL16M-series EDS IE-SW-PL16M-series Managed Switch Configuration Utility Version 3.4.2 |
| User Documentation | Hardware Installation Guide Manual |