

IE-SW-PL10M-3GT-7TX

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/Gigabit Ethernet, Number of ports: 3 * RJ45 10/100/1000BaseT(X), 7 * RJ45 10/100BaseT(X), IP30, -10 °C...60 °C |
| Order No. | 1241290000 |
| Type | IE-SW-PL10M-3GT-7TX |
| GTIN (EAN) | 4050118029291 |
| Qty. | 1 pc(s). |

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Technical data

Dimensions and weights

| | | | |
|------------|---------|-----------------|------------|
| Depth | 107 mm | Depth (inches) | 4.213 inch |
| Height | 135 mm | Height (inches) | 5.315 inch |
| Width | 80.2 mm | Width (inches) | 3.157 inch |
| Net weight | 1,170 g | | |

Temperatures

| | | | |
|---------------------|----------------------------|-----------------------|----------------|
| Storage temperature | -40 °C...85 °C | Operating temperature | -10 °C...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: 20 V/m, IEC 61000-4-4 EFT: Power: 2 kV; Signal: 2 kV, IEC 61000-4-5 Surge: Power: 2 kV; Signal: 2 kV, IEC 61000-4-6 CS: 10 V, 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 | 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. | -10 °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"> +13 To +30 V for logic "1" -30 To +3 V for logic "0" Max. input current: 8 mA | Function DIP switch | Turbo-Ring, Master, Coupler, Reserve |
| LED indicator | PWR1, PWR2, FAULT, 10/100M (TP-Port), 1000M (Gigabit-Port), MSTR/HEAD, CPLR/TAIL | Number of ports | 3 * RJ45 10/100/1000BaseT(X), 7 * RJ45 10/100BaseT(X) |
| RJ45 ports | 10/100BaseT(X), 10/100/1000BaseT(X), auto negotiation | | |

MTBF

| | | |
|------|------------------------------|--------------------------|
| MTBF | According to Standard | Telcordia (Bellcore), GB |
| | Operating time (hours), min. | 911,314 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 <20/50 ms at Fast/Gigabit Ethernet interface), Turbo-Chain (recovery time <20/50 ms at Fast/Gigabit Ethernet interface), 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 |

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Power supply

| | | |
|-----------------------------|-----------------------------------|--------|
| Connection type | 2 removable 6-pin terminal blocks | |
| Current consumption | Voltage | 24 V |
| | Current | 0.65 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 | 7.4 Gbit/s | IGMP-Groups | 256 |
| MAC table size | 8 K | Max. number of available VLANs | 64 |
| Packet buffer size | 1 Mbit | Priority queues | 4 |
| VLAN-ID max | 4,094 | VLAN-ID min | 1 |

Technical data

| | | | |
|-----------------------|--|-------------------|---------|
| Housing main material | metal | Protection degree | IP30 |
| Speed | Fast/Gigabit 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 802.3ab for 1000BaseT(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 | ETIM 9.0 | 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 | ECLASS 13.0 | 19-17-04-01 |

Environmental Product Compliance

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

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Technical data

Approvals

Approvals



| | |
|---------------------------|------------|
| ROHS | Conform |
| UL File Number Search | UL Website |
| Certificate no. (cULus) | E230683 |
| Certificate no. (cULusEX) | E223527 |

Downloads

| | |
|---|---|
| Approval/Certificate/Document of Conformity | ODVA Certificate PNO Certificate ATEX certificate EU Declaration of Conformity UK Declaration of Conformity |
| Engineering Data | CAD data – STEP |
| Product Change Notification | Firmware Release Notes Product Change Notification IE-SW-PL10M-series |
| Software | Software – Managed Switch Configuration Utility Device description – SNMP MIB file Device description – GSDML IE-SW-PL10M-series Firmware – Firmware Version 3.3.24 Device description – EDS IE-SW-PL10M-series |
| User Documentation | Hardware Installation Guide Manual 20191204 Security Advisory - Multiple vulnerabilities in IE Managed Switches |
| Catalogues | Catalogues in PDF-format |
| Brochures | |

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Accessories

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

General ordering data

| 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 pc(s). | |

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). | |

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www.weidmueller.com**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 pc(s). | |