

IE-SW-AL26M-22GTPOE-2GCPOE-2GESFP

Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 26
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 Germany

www.weidmueller.com



Features of AdvancedLine Power-over-Ethernet managed switches

- Variants with 4,8 or 24 IEEE 802.3af/at compliant PoE ports (up to 30 W power output per PoE port)
- Variants with integrated DC/DC converter for providing PoE voltage to PDs over the entire PSE input voltage range from 12 to 57 V DC
- Model for 19" rack mounting with 24 PoE ports and 720 W total power budget
- Advanced PoE management functions, including PD alive check with auto reboot function and PoE time scheduling
- Extensive set of management features enable the set-up of various redundancy, monitoring, traffic filter and security functions
- Models with SFP ports for communication links over long distances with fiber optic transceivers
- Suitable for use in harsh industrial environment thanks to rugged design and wide operating temperature range of -40°C up to 75°C

General ordering data

| | |
|------------|--|
| Version | Network switch, 19" rack mount, managed PoE, Gigabit Ethernet, Number of ports: 22x RJ45 10/100/1000BASE-T(X) PoE+, 2x combo-ports (10/100/1000BASE-T(X) PoE+ or 100/1000BaseSFP), 2x 100/1000BaseSFP Slot, IP30, -40 °C...70 °C |
| Order No. | 3109780000 |
| Type | IE-SW-AL26M-22GTPOE-2GCPOE-2GESFP |
| GTIN (EAN) | 4099987187954 |
| Qty. | 1 items |

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Technical data

Approvals

Approvals



ROHS Conform

Dimensions and weights

| | | | |
|------------|----------|-----------------|--------------|
| Depth | 343 mm | Depth (inches) | 13.5039 inch |
| Height | 44.45 mm | Height (inches) | 1.75 inch |
| Width | 433 mm | Width (inches) | 17.0472 inch |
| Net weight | 4205 g | | |

Temperatures

| | | | |
|---------------------|----------------------------|-----------------------|----------------|
| Storage temperature | -40 °C...85 °C | Operating temperature | -40 °C...70 °C |
| Humidity | 5 to 95 % (non-condensing) | | |

Environmental Product Compliance

| | |
|--------------------------------------|--|
| RoHS Compliance Status | Compliant with exemption |
| RoHS Exemption (if applicable/known) | 6c, 7a, 7cI |
| REACH SVHC | Lead 7439-92-1, Lead monoxide 1317-36-8, 2-Methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one 71868-10-5 |
| SCIP | d86f76fe-fd99-481e-8a23-bd7d255be1b7 |

EMC conformity and approvals

| | | | |
|-----------|-----------------------------|---------------|---|
| Free fall | According to IEC 60068-2-31 | EMC standards | EN 55032, EN 55035, FCC Part 15 Subpart B Class A, IEC 61000-4-2 ESD: Contact: 4 kV; Air: 8 kV, IEC 61000-4-3 RS: 80 MHz - 5 GHz: 3 V/m, IEC 61000-4-4 EFT: Power: 0.5 kV; Signal: 0.5 kV, IEC 61000-4-5 Surge: Power: 0,5 kV; Signal: 1 kV, IEC 61000-4-6 CS: 3 Vrms |
| Vibration | according to IEC 60068-2-6 | Shock | according to IEC 60068-2-27 |

Environmental conditions

| | |
|-----------------------------|---|
| Operating temperature, max. | 70 °C |
| Operating temperature, min. | -40 °C |
| Humidity | 5 to 95 % (non-condensing) |
| Storage temperature, max. | 85 °C |
| Storage temperature, min. | -40 °C |
| Operating altitude | Altitude, max. 6000 m |
| | Note for restrictions, see the manufacturer's declaration for operating altitude in section downloads |

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Guarantee

Time interval 5 years

Interfaces

| | | | |
|------------------------|--|-----------------|---|
| Fibre-optic ports | 100/1000Base SFP Slot | RJ45 ports | 10/100/1000BaseT(X), auto negotiation, Full-/half-duplex mode, Auto MDI/MDI-X port |
| Console port interface | RS-232 (DB-9 connector) | Number of ports | 22x RJ45 10/100/1000BASE-T(X) PoE+, 2x combo-ports (10/100/1000BASE-T(X) PoE+ or 100/1000BaseSFP), 2x 100/1000BaseSFP Slot |
| Function reset button | <5 sec: System reboot and set LAN IP to factory Default, >5 sec: Factory default, Note: behavior of reset button can be configured via web interface | | |

MTBF

| | | |
|------|------------------------------|------------------|
| MTBF | According to Standard | Telcordia SR-332 |
| | Operating time (hours), min. | 409753 h |
| | Ambient temperature | 25 °C |

Management features

| | | | |
|-----------------------|---|------------------------|---|
| Device configuration | Webbrowser (HTTP/HTTPS), SNMP v1/v2c/v3, Command Line Interface (Telnet/SSH), Local serial console port (RS-232 via DB-9 port), Upload of a configuration file via web-interface or TFTP-Server | Monitoring function | SNMP v1/v2c/v3, Link Layer Discovery Protocol (LLDP), Port mirroring (local, remote), Port statistics, Port monitoring, RMON (Remote monitoring), Event based warning via E-Mail, Event based warning via relay, Event based warning via SNMP trap, Ethernet cable diagnostics on RJ-45 ports |
| Network redundancy | Spanning Tree Protocol (STP), Rapid Spanning Tree Protocol (RSTP), Multiple Spanning Tree Protocol (MSTP), O-Ring (recovery time <30 ms), O-Chain (recovery time <30 ms), Link Aggregation Control Protocol (LACP), Fast recovery, Media Redundancy Protocol (MRP-manager/client) | Network traffic filter | Quality of Service (QoS), Differentiated Services Code Point (DSCP), Tag based VLAN, GVRP (GARP VLAN Registration Protocol), IGMP v2/v3, Traffic Rate Limiting, IGMP Snooping, MLD Snooping, MLD v1/v2 |
| IP-address management | Static, DHCP-Client, DHCP-Server (port based, pool-based), DHCP Option 82, DHCP-Relay, IPv4/IPv6 | Security functions | VLAN segmentation, Enable/disable ports, TACACS+ and IEEE 802.1X User Authentication, DoS/DDoS auto prevention, |

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Access Control List, DHCP snooping, Loop protection, Management access security via privilege level configuration for different user roles

| | | | |
|---------------------------------|--------------------------|-----------------------------|--|
| Time synchronization management | SNTP server, SNTP client | Industrial protocol support | PROFINET device acc. to conformance class B, EtherNet/IP, Modbus/TCP slave |
|---------------------------------|--------------------------|-----------------------------|--|

Power over Ethernet (PoE)

| | | |
|--|----------------|--------------|
| PoE output power | Standard | IEEE 802.3af |
| | Output power | 15.4 W |
| PoE output current | Standard | IEEE 802.3af |
| | Output current | 350 mA |
| Total PoE power budget | Standard | IEEE 802.3at |
| | Output power | 30 W |
| | Standard | IEEE 802.3af |
| | Output current | 600 mA |
| PoE pin assignment | Voltage type | DC |
| | Voltage, min. | 50 V |
| | Voltage, max. | 57 V |
| | Power budget | 720 W |
| PoE pin assignment | | |
| Mode A: Pin 1, 2 (V-); Pin 3, 6 (V+); Alternative A; MDI-X | | |

Power supply

| | | |
|-----------------------------|---|---------|
| Reverse polarity protection | No | |
| Supply voltage | 1 single input | |
| Overload current protection | Yes | |
| Connection type | 1x 6-pin fork/ring lug connection | |
| Voltage supply range | Voltage type | DC |
| | Voltage, min. | 50 V |
| | Voltage, max. | 57 V |
| Current consumption | Voltage | 50 V |
| | Voltage type | DC |
| | Current consumption with Powered Device (PD) | 14.71 A |
| | Current consumption without Powered Device (PD) | 0.51 A |
| | Voltage | 57 V |
| | Voltage type | DC |
| | Current consumption with Powered Device (PD) | 12.92 A |
| | Current consumption without Powered Device (PD) | 0.46 A |

Switch characteristics

| | | | |
|---------------------|--------------|--------------------------------|--------|
| Priority queues | 8 | Max. number of available VLANs | 4095 |
| VLAN-ID min | 1 | VLAN-ID max | 4095 |
| MAC table size | 8 K | Packet buffer size | 4 Mbit |
| Bandwidth backplane | 52 Gbit/s | Number of IGMP-Groups per VLAN | 256 |
| Jumbo frame support | up to 9.6 KB | | |

Technical data

| | | | |
|-----------------------|-------|------------------|-------------------|
| Housing main material | Metal | Type of mounting | 19" rack mounting |
| Protection degree | IP30 | Speed | Gigabit Ethernet |

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Technical data

Switch managed PoE

Technology

| Data switching | Store and Forward | Flow control | IEEE 802.3x flow control |
|----------------|---|--------------|--------------------------|
| Standard | IEEE 802.3 for 10BaseT, IEEE 802.3u for 100BaseT(X) and 100BaseFX, IEEE 802.3ab for 1000BASE-T, IEEE 802.3z for 1000BASE-X, IEEE 802.3x for flow control, IEEE 802.3ad for port trunk with LACP, IEEE 802.3at/af for Power-over-Ethernet, IEEE 802.1D for the Spanning Tree protocol, IEEE 802.1w for Rapid STP, IEEE 802.1s for the Multiple Spanning Tree Protocol (MSTP), IEEE 802.1p for Class of Service / Quality of Service (CoS/QoS), IEEE 802.1Q for VLAN tagging, IEEE 802.1X for authentication, IEEE 802.1AB for Link Layer Discovery protocol (LLDP) | | |

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

SFP transceiver (for use with switches of Eco-, Advanced-, Substation and BasicLine series B)



Features of SFP-Transceiver series

- Huge variety of transceiver types for several transmission speeds (up to 10 Gigabit Ethernet) and distances (up to 60 km)
- BiDi SFP models for communication via single fiber
- Easy control of transceiver status due to support of Digital Diagnostic Monitoring (DDM)
- Hot pluggable (during operation)
- Class 1 laser product, EN60825-1 compliant
- Applicable for switches of the Eco-, Advanced- and SubstationLine

General ordering data

| | | |
|------------|----------------------------|--|
| Type | IE-SFP-1FE-MM-2 | Version |
| Order No. | 2682450000 | SFP Transceiver, 100 Mbps, Multimode, LC-Duplex, 4 km, -40 °C...85 |
| GTIN (EAN) | 4050118692266 | °C |
| Qty. | 1 ST | |
| Type | IE-SFP-1FE-SM-30 | Version |
| Order No. | 2682460000 | SFP Transceiver, 100 Mbps, Singlemode, LC-Duplex, 30 km, -40 |
| GTIN (EAN) | 4050118692259 | °C...85 °C |
| Qty. | 1 ST | |
| Type | IE-SFP-1FE-SM-60 | Version |
| Order No. | 2682470000 | SFP Transceiver, 100 Mbps, Singlemode, LC-Duplex, 60 km, -40 |
| GTIN (EAN) | 4050118692242 | °C...85 °C |
| Qty. | 1 ST | |
| Type | IE-SFP-1GE-MM-05 | Version |
| Order No. | 2682480000 | SFP Transceiver, 1000 Mbps, Multimode, LC-Duplex, 0.5 km, -40 |
| GTIN (EAN) | 4050118692235 | °C...85 °C |
| Qty. | 1 ST | |
| Type | IE-SFP-1GE-MM-2 | Version |
| Order No. | 2682490000 | SFP Transceiver, 1000 Mbps, Multimode, LC-Duplex, 2 km, -40 |
| GTIN (EAN) | 4050118692228 | °C...85 °C |
| Qty. | 1 ST | |
| Type | IE-SFP-1GE-SM-10 | Version |
| Order No. | 2682500000 | SFP Transceiver, 1000 Mbps, Singlemode, LC-Duplex, 10 km, -40 |
| GTIN (EAN) | 4050118692211 | °C...85 °C |
| Qty. | 1 ST | |
| Type | IE-SFP-1GE-SM-40 | Version |
| Order No. | 2682510000 | SFP Transceiver, 1000 Mbps, Singlemode, LC-Duplex, 40 km, -40 |
| GTIN (EAN) | 4050118692204 | °C...85 °C |
| Qty. | 1 ST | |
| Type | IE-SFP-1GE-SM-10-BIDI-T... | Version |
| Order No. | 2682520000 | SFP Transceiver, 1000 Mbps, Singlemode BiDi, LC-Simplex, 10 km, |
| GTIN (EAN) | 4050118692198 | -40 °C...85 °C |
| Qty. | 1 ST | |
| Type | IE-SFP-1GE-SM-10-BIDI-T... | Version |
| Order No. | 2682530000 | SFP Transceiver, 1000 Mbps, Singlemode BiDi, LC-Simplex, 10 km, |
| GTIN (EAN) | 4050118692181 | -40 °C...85 °C |
| Qty. | 1 ST | |
| Type | IE-SFP-1GE-SM-20-BIDI-T... | Version |
| Order No. | 2682540000 | SFP Transceiver, 1000 Mbps, Singlemode BiDi, LC-Simplex, 20 km, |
| GTIN (EAN) | 4050118692174 | -40 °C...85 °C |
| Qty. | 1 ST | |

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Accessories

| | | |
|------------|----------------------------|---|
| Type | IE-SFP-1GE-SM-20-BIDI-T... | Version |
| Order No. | 2682550000 | SFP Transceiver, 1000 Mbps, Singlemode BiDi, LC-Simplex, 20 km, |
| GTIN (EAN) | 4050118692167 | -40 °C...85 °C |
| Qty. | 1 ST | |
| Type | IE-SFP-1GE-RJ45 | Version |
| Order No. | 2766120000 | SFP Transceiver, 10/100/1000 MBit/s, RJ45, 0.1 km, -40 °C...85 °C |
| GTIN (EAN) | 4064675023791 | |
| Qty. | 1 ST | |