

IE-SW-AL08M-8GTPOE**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com**Features of AdvancedLine Power-over-Ethernet managed switches**

- Variants with 4 or 8 IEEE 802.3af/at compliant PoE ports (up to 30 watt power output per PoE port)
- Integrated DC/DC converter for providing PoE voltage to PDs over the entire PSE input voltage range from 12 to 57 V DC
- 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
- Model with fiber optic ports for communication links over long distances
- 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, managed PoE, Gigabit Ethernet, Number of ports: 8x RJ45 10/100/1000 BaseT(X) PoE+, IP30, -40 °C...75 °C |
| Order No. | 2682420000 |
| Type | IE-SW-AL08M-8GTPOE |
| GTIN (EAN) | 4050118692297 |
| Qty. | 1 pc(s). |

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Technical data**Dimensions and weights**

| | | | |
|------------|----------|-----------------|------------|
| Depth | 108.5 mm | Depth (inches) | 4.272 inch |
| Height | 145.1 mm | Height (inches) | 5.713 inch |
| Width | 54.3 mm | Width (inches) | 2.138 inch |
| Net weight | 915 g | | |

Temperatures

| | | | |
|---------------------|----------------------------|-----------------------|----------------|
| Storage temperature | -40 °C...85 °C | Operating temperature | -40 °C...75 °C |
| Humidity | 5 to 95 % (non-condensing) | | |

EMC conformity and approvals

| | | | |
|-----------------|--|-----------|---|
| EMC standards | EN 55032, EN 55024, 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 bis 1 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 V | Free fall | |
| Safety standard | UL 61010-1, UL 61010-2-201 | Shock | According to IEC 60068-2-31 according to IEC 60068-2-27 |
| Vibration | according to IEC 60068-2-6 | | |

Environmental conditions

| | | | |
|-----------------------------|----------------------------|--|--|
| Humidity | 5 to 95 % (non-condensing) | | |
| Operating altitude | Altitude, max. | 2,000 m | |
| | Note | in acc. with UL | |
| | Altitude, max. | 6,000 m | |
| | Note | for restrictions, see the manufacturer's declaration for operating altitude in section downloads | |
| Operating temperature, max. | 75 °C | | |
| Operating temperature, min. | -40 °C | | |
| Storage temperature, max. | 85 °C | | |
| Storage temperature, min. | -40 °C | | |

Guarantee

| | |
|---------------|---------|
| Time interval | 5 years |
|---------------|---------|

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Interfaces

| | | | |
|-----------------------|--|------------------------|-----------------------------------|
| Alarm contact | 1 relay output with a current capacity of 1 A at 24 V DC | Console port interface | RS-232 (RJ45 connector) |
| 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 | Number of ports | 8x RJ45 10/100/1000 BaseT(X) PoE+ |
| RJ45 ports | 10/100/1000BaseT(X), auto negotiation, Full-/half-duplex mode, Auto MDI/MDI-X port | | |

MTBF

| | | |
|------|------------------------------|------------------|
| MTBF | According to Standard | Telcordia SR-332 |
| | Operating time (hours), min. | 495,670 h |

Management features

| | | | |
|---------------------------------|---|-----------------------------|---|
| Device configuration | Webbrowser (HTTP/HTTPS), SNMP v1/v2c/v3, Command Line Interface (Telnet/SSH), Local serial console port (RS-232 via RJ-45 port), Upload of a configuration file via web-interface, TFTP-Server or external backup module | Monitoring function | SNMP v1/v2c/v3, Link Layer Discovery Protocol (LLDP), Port mirroring (local, remote), 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, 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-client) | Network traffic filter | Quality of Service (QoS), Tag based VLAN, GVRP (GARP VLAN Registration Protocol), IGMP v2/v3, Traffic Rate Limiting |
| IP-address management | Static, DHCP-Client, DHCP-Server (port based, pool-based), DHCP Option 82, DHCP-Relay | Security functions | VLAN segmentation, Enable/disable ports, TACACS+ and IEEE 802.1X User Authentication, DoS/DDoS auto prevention, 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 |

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Power over Ethernet (PoE)

| | | |
|------------------------|--|--------------|
| PoE output current | Standard | IEEE 802.3af |
| | Output current | 350 mA |
| | Standard | IEEE 802.3at |
| | Output current | 600 mA |
| PoE output power | Standard | IEEE 802.3af |
| | Output power | 15.4 W |
| | Standard | IEEE 802.3at |
| | Output power | 30 W |
| PoE pin assignment | Mode A: Pin 1, 2 (V+); Pin 3, 6 (V-); Alternative A; MDI | |
| Total PoE power budget | Voltage type | DC |
| | Voltage, min. | 12 V |
| | Voltage, max. | 23.9 V |
| | Power budget | 60 W |
| | Voltage type | DC |
| | Voltage, min. | 24 V |
| | Voltage, max. | 57 V |
| | Power budget | 120 W |

Power supply

| | | |
|-----------------------------|-----------------------------------|--------|
| Connection type | 1 removable 6-pin terminal block | |
| Current consumption | Voltage | 12 V |
| | Current | 6.53 A |
| | Voltage | 24 V |
| | Current | 5.49 A |
| | Voltage | 48 V |
| | Current | 2.68 A |
| Overload current protection | Yes | |
| 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. | 57 V |

Switch characteristics

| | | | |
|--------------------------------|-----------|--------------------------------|--------------|
| Bandwidth backplane | 16 Gbit/s | Jumbo frame support | up to 9.6 KB |
| MAC table size | 8 K | Max. number of available VLANs | 4,096 |
| Number of IGMP-Groups per VLAN | 256 | Packet buffer size | 4 Mbit |
| Priority queues | 8 | VLAN-ID max | 4,095 |
| VLAN-ID min | 1 | | |

Technical data

| | | | |
|-----------------------|------------------|-------------------|-------------|
| Housing main material | Metal | Protection degree | IP30 |
| Speed | Gigabit Ethernet | Switch | managed PoE |
| Type of mounting | DIN rail | | |

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Technology

| Data switching | Store and Forward | Flow control | IEEE 802.3x flow control |
|----------------|---|--------------|--------------------------|
| Standard | IEEE 802.3 for 10BASE-T, IEEE 802.3u for 100BASE-TX, IEEE 802.3ab for 1000BASE-T, IEEE 802.3x for flow control, IEEE 802.3ad for port trunk with LACP, 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), IEEE 802.3at/af for Power-over-Ethernet | | |

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 |

Approvals

Approvals



| | |
|-------------------------|------------|
| ROHS | Conform |
| UL File Number Search | UL Website |
| Certificate no. (cULus) | E141197 |

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www.weidmueller.com**Technical data****Downloads**

| | |
|---|---|
| Approval/Certificate/Document of Conformity | PNO Certificate |
| | RCM Declaration of Conformity |
| | EU Declaration of Conformity |
| | UK Declaration of Conformity |
| | Manufacturer's declaration for operating altitude |
| Engineering Data | CAD data – STEP |
| Product Change Notification | Firmware Release Notes |
| Software | Device description – SNMP private MIB |
| | Firmware – Current Firmware |
| | Device description – GSDML file |
| | Device description – EDS file |
| User Documentation | Hardware Installation Guide |
| | User manual |
| Catalogues | Catalogues in PDF-format |