

IE-SW-AL08M-8TX

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com



Features of AdvancedLine managed Switch series

Industrial networks require a future-proof infrastructure with high availability, reliability, and transparency. Managed switches increase network availability utilizing redundancies and control mechanisms as well as network diagnostics in demanding automation networks.

- Extensive set of management features enable the set-up of various redundancy, monitoring, traffic filter and security functions
- Huge variety of port count and media type enable a wide range of applications (5 to 24 ports)
- Models supporting Gigabit Ethernet including Jumbo Frame support for applications with high demand on bandwidth and latency
- Suitable for use in harsh industrial environment thanks to rugged design and wide operating temperature range of -40°C up to 75°C
- Layer 3 model for hardware supported routing between up to 20 IP-subnets

General ordering data

| | |
|------------|--|
| Version | Network switch, managed, Fast Ethernet, Number of ports: 8x RJ45, IP30, -40 °C...75 °C |
| Order No. | 2682280000 |
| Type | IE-SW-AL08M-8TX |
| GTIN (EAN) | 4050118692433 |
| Qty. | 1 items |

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Technical data

Approvals

Approvals



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

Dimensions and weights

| | | | |
|------------|----------|-----------------|-------------|
| Depth | 107.1 mm | Depth (inches) | 4.2165 inch |
| Height | 144.3 mm | Height (inches) | 5.6811 inch |
| Width | 52 mm | Width (inches) | 2.0472 inch |
| Net weight | 812 g | | |

Temperatures

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

Environmental Product Compliance

| | |
|--------------------------------------|---|
| RoHS Compliance Status | Compliant with exemption |
| RoHS Exemption (if applicable/known) | 6c, 7a, 7cl |
| REACH SVHC | Lead 7439-92-1, Lead monoxide 1317-36-8 |
| SCIP | 9229992a-00b9-4096-8962-200a7f33e289 |

EMC conformity and approvals

| | | | |
|-----------------|--|---------------|---|
| Free fall | According to IEC 60068-2-31 | 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 Vrms |
| Vibration | according to IEC 60068-2-6 | Shock | according to IEC 60068-2-27 |
| Safety standard | SELV according to EN 62368-1, UL 61010-1, UL 61010-2-201 | | |

Environmental conditions

| | | |
|-----------------------------|----------------------------|-----------------|
| Operating temperature, max. | 75 °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. | 2000 m |
| | Note | in acc. with UL |
| | Altitude, max. | 6000 m |

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Note

for restrictions, see the manufacturer's declaration for operating altitude in section downloads

Guarantee

Time interval 5 years

Interfaces

| | | | |
|-----------------------|---|------------------------|-------------------------|
| RJ45 ports | 10/100BaseT(X), auto negotiation, Full-/half-duplex mode, Auto MDI/MDI-X port | Console port interface | RS-232 (RJ45 connector) |
| Alarm contact | 1 relay output with a current capacity of 1 A at 24 V DC | Number of ports | 8x RJ45 |
| Function reset button | <5 sec: System reboot, >5 sec: Factory default | | |

MTBF

| | | |
|------|------------------------------|------------------|
| MTBF | According to Standard | Telcordia SR-332 |
| | Operating time (hours), min. | 84 1599 h |

Management features

| | | | |
|-----------------------|---|------------------------|---|
| Device configuration | Webbrowser (HTTP/HTTPS), SNMP v1/v2c/v3, Local serial console port (RS-232 via RJ-45 port), Upload of a configuration file via web-interface or TFTP-Server, Command Line Interface (Telnet/SSH) | 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), Multiple Spanning Tree Protocol (MSTP), O-Ring (recovery time <10 ms), O-Chain (recovery time <10 ms), Link Aggregation Control Protocol (LACP), Fast recovery | Network traffic filter | Quality of Service (QoS), Class of Service (CoS), Type of Service (ToS), Differentiated Services Code Point (DSCP), Port based VLAN, Tag based VLAN, GVRP (GARP VLAN Registration Protocol), IGMP v2/v3, Multicast VLAN Registration (MVR), Traffic Rate Limiting |
| 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, Access control (port based via IEEE 802.1X), Access control list (IP-based), Access control list (MAC-based), Management access security via secure IP-list and configuration of allowed access methods |

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| Time synchronization management | NTP server, SNTP client | Industrial protocol support | (web-interface, telnet, SSH), Loop protection |
| | | | Modbus/TCP slave, PROFINET device acc. to conformance class A |

Power supply

| | | | |
|-----------------------------|-----------------------------------|--------|--|
| Reverse polarity protection | Yes | | |
| Supply voltage | 12/24/48 V DC, 2 redundant inputs | | |
| Overload current protection | Yes | | |
| Connection type | 1 removable 7-pin terminal block | | |
| Voltage supply range | Voltage type | DC | |
| | Voltage, min. | 10.8 V | |
| | Voltage, max. | 52.8 V | |
| Current consumption | Voltage | 12 V | |
| | Current | 0.47 A | |
| | Voltage | 24 V | |
| | Current | 0.24 A | |
| | Voltage | 48 V | |
| | Current | 0.12 A | |

Switch characteristics

| | | | |
|--------------------|--------|--------------------------------|------------|
| Priority queues | 4 | Max. number of available VLANs | 4095 |
| VLAN-ID min | 1 | VLAN-ID max | 4094 |
| IGMP-Groups | 1024 | MAC table size | 8 K |
| Packet buffer size | 1 Mbit | Bandwidth backplane | 1.6 Gbit/s |

Technical data

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

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), 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, 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 |

Technical data

ECLASS 15.0

19-17-04-01
