

IE-SW-AL06LM-4TX-2SCS**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

General ordering data

| | |
|------------|--|
| Version | Network switch, lite managed, Fast Ethernet, Number of ports: 4 x RJ45, 2 * SC Single-mode, IP30, -40 °C...75 °C |
| Order No. | 2682270000 |
| Type | IE-SW-AL06LM-4TX-2SCS |
| GTIN (EAN) | 4050118692440 |
| Qty. | 1 pc(s). |

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Technical data

Dimensions and weights

| | | | |
|------------|----------|-----------------|------------|
| Depth | 107.1 mm | Depth (inches) | 4.217 inch |
| Height | 145.4 mm | Height (inches) | 5.724 inch |
| Width | 54.2 mm | Width (inches) | 2.134 inch |
| Net weight | 799 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: 1 kV; Signal: 1 kV, IEC 61000-4-6 CS: 3 Vrms | Free fall | According to IEC 60068-2-31 |
| Safety standard | SELV according to EN 62368-1, UL 61010-1, UL 61010-2-201 | Shock | 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 | | |

Fibre optic transceiver characteristics

| | | | |
|-----------------------------|------------|----------|--|
| Transmission rate | 100 MBit/s | | |
| Transceiver type | Singlemode | | |
| Connector type | SC-Duplex | | |
| Transmission distance, typ. | 30 km | | |
| Wavelength | typ. | 1,310 nm | |
| Receive power | min. | -34 dBm | |
| | max. | 0 dBm | |
| Transmission power | min. | -15 dBm | |
| | max. | -8 dBm | |
| Link-budget | 19 dB | | |

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Guarantee

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

Interfaces

| | | | |
|-----------------------|---|-------------------|--|
| Alarm contact | 1 relay output with a current capacity of 1 A at 24 V DC | Fibre-optic ports | 100BaseFX ports (SC connector), Singlemode |
| Function reset button | <5 sec: System reboot, >5 sec: Factory default | Number of ports | 4 x RJ45, 2 * SC Single-mode |
| RJ45 ports | 10/100BaseT(X), auto negotiation, Full-/half-duplex mode, Auto MDI/MDI-X port | | |

MTBF

| | | |
|------|------------------------------|------------------|
| MTBF | According to Standard | Telcordia SR-332 |
| | Operating time (hours), min. | 609,551 h |

Management features

| | | | |
|---------------------------------|---|-----------------------------|---|
| Device configuration | Webbrowser (HTTP/HTTPS), SNMP v1/v2c/v3, 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), Syslog, 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), O-Ring (recovery time <10 ms), O-Chain (recovery time <10 ms), Fast recovery | Network traffic filter | |
| IP-address management | Static, DHCP-Client, DHCP-Server (port based, pool-based), DHCP Option 82, DHCP-Relay | Security functions | Port based VLAN VLAN segmentation, Enable/disable ports, Loop protection, TACACS+ Authentication, Management access security via secure IP-list and configuration of allowed access methods (web-interface, telnet, SSH) |
| Time synchronization management | NTP server, SNTP client | Industrial protocol support | Modbus/TCP slave |

Power supply

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

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| | | |
|----------------------|---------------|--------|
| Voltage supply range | Voltage type | DC |
| | Voltage, min. | 10.8 V |
| | Voltage, max. | 52.8 V |

Switch characteristics

| | | | |
|---------------------|------------|----------------|-----|
| Bandwidth backplane | 1.2 Gbit/s | MAC table size | 2 K |
| Packet buffer size | 1 Mbit | | |

Technical data

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

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 802.1D for the Spanning Tree protocol, IEEE 802.1w for Rapid STP, IEEE 802.1AB for Link Layer Discovery protocol (LLDP) | | |

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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Downloads

| | |
|---|--|
| Approval/Certificate/Document of Conformity | EU Declaration of Conformity RCM 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 | Firmware – Current Firmware Device description – SNMP private MIB |
| User Documentation | Hardware Installation Guide User manual |
| Catalogues | Catalogues in PDF-format |

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www.weidmueller.com**Accessories****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). | |