

**IE-SW-AL06LM-4TX-2SCS****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://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.	<a href="#">2682270000</a>
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	
Safety standard	SELV according to EN 62368-1, 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		

## 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
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## 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 Span- ning 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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Approval/Certificate/Document of Conformity	<a href="#">EU Declaration of Conformity</a> <a href="#">RCM Declaration of Conformity</a> <a href="#">UK Declaration of Conformity</a> <a href="#">Manufacturer's declaration for operating altitude</a>
Engineering Data	<a href="#">CAD data – STEP</a>
Product Change Notification	<a href="#">Firmware Release Notes</a>
Software	<a href="#">Firmware – Current Firmware</a> <a href="#">Device description – SNMP private MIB</a>
User Documentation	<a href="#">Hardware Installation Guide</a> <a href="#">User manual</a>
Catalogues	<a href="#">Catalogues in PDF-format</a>