Data sheet

IE-SW-AL06LM-4TX-2SCS

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, 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 items

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Technical data

Approvals

Approvals	CE c(UL)us LISTED UKCA
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	145.4 mm	Height (inches)	5.7244 inch
Width	54.2 mm	Width (inches)	2.1339 inch
Net weight	799 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: 1 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

Fibre optic transceiver characteristics

Transmission rate	100 MBit/s	
Transceiver type	Singlemode	
Connector type	SC-Duplex	
Transmission distance, typ.	30 km	
Wavelength	typ.	1310 nm
Receive power	min.	-34 dBm
	max.	0 dBm
Transmission power	min.	-15 dBm
	max.	-8 dBm
Link-budget	19 dB	

Guarantee

Time interval	5 years

Interfaces

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

MTBF

MTBF	According to Standard	Telcordia SR-332
	Operating time (hours), min.	609551 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	Port based VLAN
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, Loop protection, TACACS + Authentication, Management access security via secure IP-list and configuration of

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Technical data

			allowed access methods (web-interface, telnet, SSH)
Time synchronization management	NTP server, SNTP client	Industrial protocol support	Modbus/TCP slave

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

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

Technical data

Housing main material	Metal	Type of mounting	DIN rail
Protection degree	IP30	Speed	Fast Ethernet
Switch	lite 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 802.1D 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
ETIM 10.0	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	ECLASS 14.0	19-17-04-01
ECLASS 15.0	19-17-04-01		

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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 ST	