

**IE-SW-AL06M-4GTPOE-2GESFP****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://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: 4 * RJ45 10/100/1000BaseT(X) PoE+, 2x 100/1000BaseSFP Slot, IP30, -40 °C...75 °C
Order No.	<a href="#">2682430000</a>
Type	IE-SW-AL06M-4GTPOE-2GESFP
GTIN (EAN)	4050118692280
Qty.	1 pc(s).

**IE-SW-AL06M-4GTPOE-2GESFP****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://www.weidmueller.com)**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	910 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
---------------	---------

## IE-SW-AL06M-4GTPOE-2GESFP

Weidmüller Interface GmbH &amp; Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

## Technical data

## Interfaces

Alarm contact	1 relay output with a current capacity of 1 A at 24 V DC	Console port interface	RS-232 (RJ45 connector)
Fibre-optic ports		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	100/1000Base SFP Slot 4 * RJ45 10/100/1000BaseT(X) PoE+, 2x 100/1000BaseSFP Slot	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.	495,624 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

**IE-SW-AL06M-4GTPOE-2GESFP****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://www.weidmueller.com)**Technical data****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	6.6 A
	Voltage	24 V
	Current	5.68 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	12 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		

## IE-SW-AL06M-4GTPOE-2GESFP

Weidmüller Interface GmbH &amp; Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

## Technical data

## 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 and 100BASE-FX, IEEE 802.3ab for 1000BASE-T, IEEE 802.3z for 1000BASE-X, IEEE 802.3x for flow control, IEEE 802.3ad for port trunk with LACP, IEEE 802.3at/af for Power-over-Ethernet, 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)		

## 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

## IE-SW-AL06M-4GTPOE-2GESFP

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 26  
D-32758 Detmold  
Germany

[www.weidmueller.com](http://www.weidmueller.com)

# Technical data

## Downloads

Approval/Certificate/Document of Conformity	<a href="#">PNO Certificate</a>
	<a href="#">RCM Declaration of Conformity</a>
	<a href="#">EU 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="#">Device description – SNMP private MIB</a>
	<a href="#">Firmware – Current Firmware</a>
	<a href="#">Device description – GSDML file</a>
	<a href="#">Device description – EDS file</a>
User Documentation	<a href="#">Hardware Installation Guide</a>
	<a href="#">User manual</a>
Catalogues	<a href="#">Catalogues in PDF-format</a>