

IE-SW-EL06-4POE-2SC

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com



Features of EcoLine Power-over-Ethernet unmanaged switches/injectors

- Variants with 2, 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
- Models supporting Gigabit Ethernet including Jumbo Frame support for applications with high demand on bandwidth and latency
- Models 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
- Reliable operation due to redundant voltage inputs, fault relay and LED diagnostics

General ordering data

Version	Network switch, unmanaged PoE, Fast Ethernet, Number of ports: 4x RJ45 10/100 BaseT(X) PoE+, 2x SC Multi-mode, IP30, -40 °C...75 °C
Order No.	2682390000
Type	IE-SW-EL06-4POE-2SC
GTIN (EAN)	4050118692327
Qty.	1 pc(s).

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Technical data

Dimensions and weights

Depth	94.9 mm	Depth (inches)	3.736 inch
Height	144.3 mm	Height (inches)	5.681 inch
Width	41 mm	Width (inches)	1.614 inch
Net weight	760 g		

Temperatures

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

EMC conformity and approvals

EMC standards	EN 55032, EN 55024, CISPR 32, 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	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		

Fibre optic transceiver characteristics

Transmission rate	100 Mbps	
Transceiver type	Multimode	
Connector type	SC-Duplex	
Transmission distance, typ.	2 km	
Wavelength	typ.	1,310 nm
Receive power	min.	-31 dBm
	max.	0 dBm
Transmission power	min.	-23.5 dBm
	max.	-14 dBm
Link-budget	7.5 dB	

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Guarantee

Time interval 5 years

Interfaces

Fibre-optic ports	100BaseFX ports (SC connector), Multimode	Function DIP switch	2x for enabling/disabling power fault alarm via relay
LED indicator	Power LED: PWR1, PWR2, FAULT, Port LED: LNK/ACT, PoE active, 100M (fibre-optic port).	Number of ports	4x RJ45 10/100 BaseT(X) PoE+, 2x SC Multi-mode
RJ45 ports	10/100BaseT(X), auto negotiation, Full-/half-duplex mode, Auto MDI/MDI-X port	Signalling contact	1 relay output with a current capacity of 1 A at 24 V DC

MTBF

MTBF	According to Standard	Telcordia SR-332
	Operating time (hours), min.	538,904 h

Power over Ethernet (PoE)

PoE output current	Standard	IEEE 802.3af
	Output current	350 mA
PoE output power	Standard	IEEE 802.3at
	Output power	600 mA
PoE pin assignment	Standard	IEEE 802.3af
	Output power	15.4 W
Total PoE power budget	Standard	IEEE 802.3at
	Output power	30 W
PoE pin assignment	Mode A: Pin 1, 2 (V+); Pin 3, 6 (V-); Alternative A; MDI	
Voltage type	Voltage type	DC
	Voltage, min.	24 V
Voltage, max.	Voltage, max.	49.9 V
	Power budget	60 W
Voltage type	Voltage type	DC
	Voltage, min.	50 V
Voltage, max.	Voltage, max.	57 V
	Power budget	120 W

Power supply

Connection type	1 removable 6-pin terminal block	
Current consumption	Voltage	24 V DC
	Current	2.8 A
Voltage supply	Voltage	57 V DC
	Current	2.2 A
Overload current protection	Yes	
Reverse polarity protection	Yes	
Voltage supply	24/48 V DC, 2 redundant inputs	
Voltage supply range	Voltage type	DC
	Voltage, min.	24 V
	Voltage, max.	57 V

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Technical data

Switch characteristics

Bandwidth backplane	1.2 Gbps	MAC table size	1 K
Packet buffer size	448 kbit		

Technical data

Housing main material	Metal	Protection degree	IP30
Speed	Fast Ethernet	Switch	unmanaged PoE
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) and 100BaseFX, IEEE 802.3x for flow control, IEEE 802.3at/af for Power-over- Ethernet		

Classifications

ETIM 6.0	EC000734	ETIM 7.0	EC000734
ETIM 8.0	EC000734	ECLASS 9.0	19-17-01-06
ECLASS 9.1	19-17-01-06	ECLASS 10.0	19-17-04-10
ECLASS 11.0	19-17-04-10	ECLASS 12.0	19-17-04-10

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

Downloads

Approval/Certificate/Document of Conformity	KC certificate EU Declaration of Conformity RCM Declaration of Conformity UK Declaration of Conformity Manufacturer's declaration for operating altitude
Engineering Data	CAD data – STEP
User Documentation	Hardware Installation Guide
Catalogues	Catalogues in PDF-format

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