

IE-MC-EL-1GT-1GESFP

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com



Features of EcoLine media converters

- Supports 100/1000BaseT(X) and 100/1000BaseSFP
- Jumbo Frame Support: Up to 10 KB, ideal for high-throughput applications
- Link Fault Pass-through (LFPT): Ensures network reliability by forwarding link faults
- Wide Operating Temperature: From -40°C to +75°C
- Very small design: Perfect for space-constrained installations
- Dual Power Inputs: Enhances reliability and uptime
- Compatible with a wide range of SFP transceivers: Singlemode / Multimode ; Fast Ethernet / Gigabit Ethernet

General ordering data

Version	Media converter, Gigabit Ethernet, Number of ports: 1x RJ45 100/1000 BaseT(X), 1x 100/1000BaseSFP Slot, IP30, -40 °C...75 °C
Order No.	3109790000
Type	IE-MC-EL-1GT-1GESFP
GTIN (EAN)	409998718796 1
Qty.	1 items

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Technical data

Approvals

Approvals



ROHS	Conform
UL File Number Search	UL Website
Certificate no. (cULus)	E141197

Dimensions and weights

Depth	70 mm	Depth (inches)	2.7559 inch
Height	95 mm	Height (inches)	3.7401 inch
Width	26.1 mm	Width (inches)	1.0276 inch
Net weight	208 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)	7a, 7cl
REACH SVHC	Lead 7439-92-1, Lead monoxide 1317-36-8
SCIP	dffb5644-fcc1-4eb0-b457-1bedb12d5ec5

EMC conformity and approvals

Free fall	According to IEC 60068-2-31	EMC standards	EN 55032, EN 55035, 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 - 5 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, IEC 61000-4-8
Vibration	according to IEC 60068-2-6	Shock	according to IEC 60068-2-27
Safety standard	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

Guarantee

Time interval 5 years

Interfaces

Fibre-optic ports	100/1000Base SFP Slot	RJ45 ports	100/1000 BaseT(X), auto negotiation, Full-/half-duplex mode, Auto MDI/MDI-X port
Function DIP switch	1x for switching between 100BaseSFP and 1000BaseSFP on SFP port, 1x for enabling/disabling Link Fault Pass-through (LFPT)	Number of ports	1x RJ45 100/1000 BaseT(X), 1x 100/1000BaseSFP Slot

MTBF

MTBF	According to Standard	Telcordia (Bellcore), GB
	Operating time (hours), min.	2268268 h
	Ambient temperature	25 °C

Power supply

Reverse polarity protection	Yes	
Supply voltage	12/24/48 V DC, 2 redundant inputs	
Overload current protection	Yes	
Connection type	1 removable 4-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	0.23 A
	Voltage type	DC
	Voltage	24 V
	Current	0.12 A
	Voltage type	DC
	Voltage	48 V
	Current	0.07 A
	Voltage type	DC

Switch characteristics

Jumbo frame support up to 10 KB

Technical data

Housing main material	Metal	Type of mounting	DIN rail, Wall mounting
Protection degree	IP30	Speed	Gigabit Ethernet

Technology

Data switching	Store and Forward	Standard	IEEE 802.3u for 100BaseT(X) and 100BaseFX, IEEE 802.3ab
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Technical data

for 1000BASE-T, IEEE
802.3z for 1000BASE-X

Classifications

ETIM 8.0	EC001467	ETIM 9.0	EC001467
ETIM 10.0	EC001467	ECLASS 14.0	19-17-01-32
ECLASS 15.0	19-17-01-32		

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Accessories

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SFP transceiver (for use with switches of Eco-, Advanced-, Substation and BasicLine series B)


Features of SFP-Transceiver series

- Huge variety of transceiver types for several transmission speeds (up to 10 Gigabit Ethernet) and distances (up to 60 km)
- BiDi SFP models for communication via single fiber
- Easy control of transceiver status due to support of Digital Diagnostic Monitoring (DDM)
- Hot pluggable (during operation)
- Class 1 laser product, EN60825-1 compliant
- Applicable for switches of the Eco-, Advanced- and SubstationLine

General ordering data

Type	IE-SFP-1FE-MM-2	Version
Order No.	2682450000	SFP Transceiver, 100 Mbps, Multimode, LC-Duplex, 4 km, -40 °C...85
GTIN (EAN)	4050118692266	°C
Qty.	1 ST	
Type	IE-SFP-1FE-SM-30	Version
Order No.	2682460000	SFP Transceiver, 100 Mbps, Singlemode, LC-Duplex, 30 km, -40
GTIN (EAN)	4050118692259	°C...85 °C
Qty.	1 ST	
Type	IE-SFP-1FE-SM-60	Version
Order No.	2682470000	SFP Transceiver, 100 Mbps, Singlemode, LC-Duplex, 60 km, -40
GTIN (EAN)	4050118692242	°C...85 °C
Qty.	1 ST	
Type	IE-SFP-1GE-MM-05	Version
Order No.	2682480000	SFP Transceiver, 1000 Mbps, Multimode, LC-Duplex, 0.5 km, -40
GTIN (EAN)	4050118692235	°C...85 °C
Qty.	1 ST	
Type	IE-SFP-1GE-MM-2	Version
Order No.	2682490000	SFP Transceiver, 1000 Mbps, Multimode, LC-Duplex, 2 km, -40
GTIN (EAN)	4050118692228	°C...85 °C
Qty.	1 ST	
Type	IE-SFP-1GE-SM-10	Version
Order No.	2682500000	SFP Transceiver, 1000 Mbps, Singlemode, LC-Duplex, 10 km, -40
GTIN (EAN)	4050118692211	°C...85 °C
Qty.	1 ST	
Type	IE-SFP-1GE-SM-40	Version
Order No.	2682510000	SFP Transceiver, 1000 Mbps, Singlemode, LC-Duplex, 40 km, -40
GTIN (EAN)	4050118692204	°C...85 °C
Qty.	1 ST	
Type	IE-SFP-1GE-SM-10-BIDI-T...	Version
Order No.	2682520000	SFP Transceiver, 1000 Mbps, Singlemode BiDi, LC-Simplex, 10 km,
GTIN (EAN)	4050118692198	-40 °C...85 °C
Qty.	1 ST	
Type	IE-SFP-1GE-SM-10-BIDI-T...	Version
Order No.	2682530000	SFP Transceiver, 1000 Mbps, Singlemode BiDi, LC-Simplex, 10 km,
GTIN (EAN)	4050118692181	-40 °C...85 °C
Qty.	1 ST	
Type	IE-SFP-1GE-SM-20-BIDI-T...	Version
Order No.	2682540000	SFP Transceiver, 1000 Mbps, Singlemode BiDi, LC-Simplex, 20 km,
GTIN (EAN)	4050118692174	-40 °C...85 °C
Qty.	1 ST	

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Accessories

Type	IE-SFP-1GE-SM-20-BIDI-T...	Version	
Order No.	2682550000	SFP Transceiver, 1000 Mbps, Singlemode BiDi, LC-Simplex, 20 km,	
GTIN (EAN)	4050118692167	-40 °C...85 °C	
Qty.	1 ST		

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		