

IE-SFP-1GE-SM-10-BIDI-TX1310

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

www.weidmueller.com



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

Version	SFP Transceiver, 1000 Mbps, Singlemode BiDi, LC-Simplex, 10 km, -40 °C...85 °C
Order No.	2682520000
Type	IE-SFP-1GE-SM-10-BIDI-TX1310
GTIN (EAN)	4050118692198
Qty.	1 items

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Technical data

Approvals

Approvals



ROHS Conform

UL File Number Search [UL Website](#)

Certificate No. (cURus) E230683

Dimensions and weights

Net weight 17.5 g

Temperatures

Storage temperature -40 °C...85 °C Operating temperature -40 °C...85 °C

Humidity 5 to 95 % (non-condensing)

Environmental Product Compliance

RoHS Compliance Status Compliant without exemption

REACH SVHC No SVHC above 0.1 wt%

EMC conformity and approvals

EMC standards EN 55032, EN 55035 Safety standard UL 62368-1

Environmental conditions

Operating temperature, max. 85 °C Operating temperature, min. -40 °C

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

Storage temperature, min. -40 °C

Fibre optic transceiver characteristics

Transmission rate 1000 Mbps

Digital diagnostic monitor function (DDM) Supported

Transceiver type Singlemode BiDi

Connector type LC-Simplex

Transmission distance, typ. 10 km

Wavelength	Wavelength	TX
	typ.	1310 nm
Wavelength	Wavelength	RX
	typ.	1550 nm
	Wavelength	TX
min.	1270 nm	
max.	1355 nm	
Wavelength	Wavelength	RX
	min.	1470 nm
	max.	1600 nm
Receive power	min.	-20 dBm
	max.	-3 dBm
Transmission power	min.	-9 dBm

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	max.	-3 dBm
Link-budget	11 dB	
Note	BiDi-SFP transceivers must be used in pairs (e.g. IE-SFP-1GE-SM-10-BIDI-TX1310 and IE-SFP-1GE-SM-10-BIDI-TX1550 or IE-SFP-1GE-SM-20-BIDI-TX1310 and IE-SFP-1GE-SM-20-BIDI-TX1550).	

Guarantee

Time interval	3 years
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Power supply

Supply voltage	3.3 V (via Ethernet switch)
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Technical data

Type of mounting	Insert in SFP slot
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Classifications

ETIM 6.0	EC001121	ETIM 7.0	EC001121
ETIM 8.0	EC003628	ETIM 9.0	EC003628
ETIM 10.0	EC003628	ECLASS 9.1	27-44-02-92
ECLASS 10.0	27-44-02-92	ECLASS 11.0	19-17-03-03
ECLASS 12.0	19-17-03-03	ECLASS 13.0	19-17-03-03
ECLASS 14.0	19-17-03-03	ECLASS 15.0	19-17-03-03