

IE-SFP-1GE-SM-20-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, 20 km, -40 °C...85 °C
Order No.	2682540000
Type	IE-SFP-1GE-SM-20-BIDI-TX1310
GTIN (EAN)	4050118692174
Qty.	1 pc(s).

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Technical data**Dimensions and weights**

Net weight	17.5 g
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Temperatures

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

EMC conformity and approvals

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

Humidity	5 to 95 % (non-condensing)	Operating temperature, max.	85 °C
Operating temperature, min.	-40 °C	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.	20 km		
Wavelength	Wavelength	TX	
	typ.	1,310 nm	
	Wavelength	RX	
	typ.	1,550 nm	
	Wavelength	TX	
	min.	1,270 nm	
	max.	1,355 nm	
	Wavelength	RX	
Receive power	min.	-23 dBm	
	max.	-3 dBm	
Transmission power	min.	-8 dBm	
	max.	-2 dBm	
Link-budget	15 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).		
Note	When connecting a single-mode fiber transceiver over a short distance, we recommend using an attenuator to prevent the transceiver from being damaged by excessive optical power.		

Guarantee

Time interval	3 years
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Power supply

Voltage supply	3.3 V (via Ethernet switch)
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Creation date April 27, 2024 10:05:17 PM CEST

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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
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		

Approvals

Approvals



ROHS	Conform
UL File Number Search	UL Website
Certificate No. (cURus)	E230683

Downloads

Approval/Certificate/Document of Conformity	EU Declaration of Conformity RCM Declaration of Conformity UK Declaration of Conformity
Engineering Data	CAD data – STEP
Catalogues	Catalogues in PDF-format