

**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.	<a href="#">2682540000</a>
Type	IE-SFP-1GE-SM-20-BIDI-TX1310
GTIN (EAN)	4050118692174
Qty.	1 pc(s).

Creation date December 4, 2023 8:55:03 AM CET

Catalogue status 24.11.2023 / We reserve the right to make technical changes.

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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	
	Wavelength TX	max. 1,355 nm	
	Wavelength RX	min. 1,470 nm	
	Wavelength RX	max. 1,600 nm	
	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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## Technical data

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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	19170303		

### Approvals

Approvals



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

### Downloads

Approval/Certificate/Document of Conformity	<a href="#">EU Declaration of Conformity</a> <a href="#">RCM Declaration of Conformity</a> <a href="#">UK Declaration of Conformity</a>
Catalogues	<a href="#">Catalogues in PDF-format</a>