Data sheet

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 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.	20 km	
Wavelength	Wavelength	TX
	typ.	1310 nm
	Wavelength	RX
	typ.	1550 nm
	Wavelength	TX
	min.	1270 nm
	max.	1355 nm
	Wavelength	RX
	min.	1470 nm
	max.	1600 nm
Receive power	min.	-23 dBm
	max.	-3 dBm
Transmission power	min.	-8 dBm

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	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

Power supply

Supply voltage	3.3 V (via Ethernet switch)

Technical data

Type of mounting	Insert in SFP slot

Classifications

ETIM 8.0	EC003628	ETIM 9.0	EC003628
ETIM 10.0	EC003628	ECLASS 14.0	19-17-03-03
ECLASS 15.0	19-17-03-03		