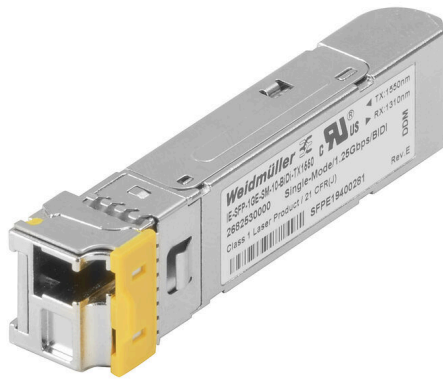


## IE-SFP-1GE-SM-20-BIDI-TX1310

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

[www.weidmueller.com](http://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 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	TX		
	Wavelength	typ.	1310 nm
Wavelength	RX		
	Wavelength	typ.	1550 nm
	Wavelength	min.	1270 nm
	max.	1355 nm	
Wavelength	RX		
	Wavelength	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		