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Product description

OEM4160003 - OEM SFP-GE-SM1550 - BIDI-20KMSC Single-mode

SFP fiber optic transceiver / 15/13 / Bidirectional / DDM / Single SC connector / mini-GBIC / Speed 1.25 Gb / Up to 20 KM Connection 1.25Gb/s Single-mode 20km 1310nm SC DDM fiber SFP transceiver

The GE-BX20-SM1310S and GE-BX20-SM1550S transceivers are a cost-effective, high-performance module that has a single SC optical interface.

They are compatible with the Small Form Factor Plug-in Multiple Source Agreement (MSA) and digital diagnostic functions are available via the 2-wire serial bus specified in SFF-8472.

The receiver section uses a PIN receiver and the transmitter uses a 1310 nm FP laser; up to 14dB of link budget guarantees the application of 20 km of this 1000Base-LX Ethernet module.

Specs:

- Data links up to 1.25 Gb/s
- Hot-plug
- Single LC connector
- Up to 20 km in 9/125ÿm SMF
- 1310 nm FP laser transmitter
- 1550 nm PIN photodetector
- Single +3.3V power supply
- Monitoring interface compatible with SFF-8472
- Maximum power <1 W
- Industrial/extended/commercial version available: operating
- temperature range:
- Industrial grade: -40°C to 85°C
- Extended temperature range: -5°C to 85°C
- Commercial grade: - 0°C to 70°C
- It complies with RoHS and is lead-free

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Order information

1.25G SFP Dual fiber	
GE-SX-MM850	1.25Gbps, 850nm MM 500m Dual LC, DDM 0°C~+70°C
GE-SX-MM1310	1.25gbps, 1310nm MM 2km Dual LC, DDM 0°C~+70°C
GE-LX20-SM1310	1.25Gbps, 1310nm SM 20km Dual LC, DDM 0°C~+70°C
GE-LX40-SM1310	1.25Gbps, 1310nm SM 40km Dual LC, DDM 0°C~+70°C
GE-LX60-SM1550	1.25Gbps, 1550nm SM 60km Dual LC, DDM 0°C~+70°C
GE-LX80-SM1550	1.25Gbps, 1550nm SM 80km Dual LC, DDM 0°C~+70°C
GE-LX120-SM1550	1.25Gbps, 1550nm SM 120km Dual LC, DDM 0°C~+70°C
1.25G SFP Single fiber	
GE-BX10-SM1310/1550	1.25Gbps, BiDi 1310nm/1550nm SM 10km LC,DDM 0°C~+70°C
GE-BX20-SM1310/1550	1.25Gbps, BiDi 1310nm/1550nm SM 20km LC, DDM 0°C~+70°C
GE-BX40-SM1310/1550	1.25Gbps, BiDi 1310nm/1550nm SM 40km LC, DDM 0°C~+70°C
GE-BX60-SM1310/1550	1.25Gbps, BiDi 1310nm/1550nm SM 60km LC, DDM 0°C~+70°C
GE-BX80-SM1310/1550	1.25Gbps, BiDi 1310nm/1550nm SM 80km LC, DDM 0°C~+70°C
GE-BX100-SM1310/1550	1.25Gbps, BiDi 1310nm/1550nm SM 120km LC, DDM 0°C~+70°C
1.25G CWDM SFP	
SFP-GE-CW40-xx	1470-1610nm CWDM 40km DDM 1.25G
SFP-GE-CW60-xx	1470-1610nm CWDM 86km DDM 1.25G
SFP-GE-CW80-xx	1470-1610nm CWDM 80km DDM 1.25G
SFP-GE-CW120-xx	1470-1610nm CWDM 120km DDM 1.25G
SFP-GE-CW160-xx	1470-1610nm CWDM 160km DDM 1.25G
1.25G DWDM SFP	
SFP-GE-DW40-CHxx	DWDM SFP 40km DDM 1.25G
SFP-GE-DW80-CHxx	DWDM SFP 80km DDM 1.25G
SFP-GE-DW120-CHxx	DWDM SFP 120km DDM 1.25G
SFP-GE-DW160-CHxx	DWDM SFP 160km DDM 1.25G

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Application

Optical Parameters (TOP = -40 to 85° C, VCC ? 3.135 to 3.465 Volts

Parameter	Symbol	Min.	Typical	Max.	Unit	Note
Transmitter Section:						
Center Wavelength	λ_c	1270	1310	1600	nm	
Spectral Width(RMS)	σ_{RMS}			4	nm	
Optical Output Power	P_{out}	-9		-3	dBm	1
Extinction Ratio	ER	9			dB	
Optical Rise/Fall Time	t_r / t_f			260	ps	2
Relative Intensity Noise	RIN			-120	dB/Hz	
Total Jitter Contribution	TX Δ TJ			0.284	UI	3
Eye Mask for Optical Output	Compliant with IEEE802.3 z (class 1 laser safety)					
Receiver Section:						
Optical Input Wavelength	λ_c	1530	1550	1570	nm	
Receiver Overload	P_{ol}	-3			dBm	4
RX Sensitivity	Sen			-24	dBm	4
RX_LOS Assert	LOS_A	-40			dBm	
RX_LOS De-assert	LOS_D			-25	dBm	
RX_LOS Hysteresis	LOS_H	0.5			dB	
General Specifications:						
Data Rate	BR		1.25		Gb/s	
Bit Error Rate	BER			10^{-12}		
Max. Supported Link Length on 9/125μm SMF@1.25Gb/s	L_{MAX}		20		km	
Total System Budget	LB	14			dB	

Detailed Information

Speed:	1.25Gb/s	Wavelength:	1310nm/1550nm
Distance:	20KM	Connector:	SC
DDM:	Support	Fiber Type:	Single Fiber Singlemode
Power Supply:	3.3V	Compatibility:	Cisco, Huawei, HP...
Manufacturer:	Yes	Working Temp.:	0~70°C
Warranty:	1 Years		
High Light:	**1550nm SFP Optical Module, 1310nm SFP Optical Module, SC 1.25G SFP Module**		