1G Ethernet SFP BiDi 1310/1490nm

1 GbE | SFP | Digital Diagnostic Monitoring

1. Product overview

The GLOBALfiber 1G Ethernet SFP BiDi 1310/1490nm comprises 4 optical variants for 1 Gigabit Ethernet. Digital Diagnostic Monitoring (DDM) is specified for every ordering variant. Select the product according to fiber type, wavelength and the stated optical power budget.

2. Key features

- SFP form factor for 1 Gigabit Ethernet
- DDM specified across the ordering range
- Operating temperature: 0 to 70 °C
- Stated ordering reaches: 10km, 40km
- Complementary 1310/1490 nm TX/RX options
- LC optical connector specified

3. Applications

1 Gigabit Ethernet optical links using the fiber types and wavelengths specified for each product. Use complementary TX/RX wavelength variants at opposite ends of a BiDi link.



4. Technical data

Parameter	Specification
Service / form factor	1 Gigabit Ethernet / SFP
Optical variants	4
Fiber types in optical table	SM
Digital monitoring	DDM
Optical connector	LC
Ordering reaches	10km, 40km

5. Recommended operating conditions

Operating temperature	0 to 70 °C
Supply voltage	Not specified
Power dissipation	Not specified
Storage temperature	Not specified

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6. Optical characteristics

Product number	Fiber	TX/RX (nm)	TX (dBm)	RX sensitivity (dBm)	Budget (dB)
S1G-BX10D-34	SM	1310/1490	-10 to -5	-21 to -3	11
S1G-BX10D-43	SM	1490/1310	-10 to -5	-21 to -3	11
S1G-BX40D-34	SM	1310/1490	-5 to 0	-23 to -3	18
S1G-BX40D-43	SM	1490/1310	-5 to 0	-23 to -3	18

All rows: 0 to 70 °C. Wavelength order is TX/RX. Receiver sensitivity notation and all numerical limits are retained as supplied.

7. Digital diagnostics and management

Digital Diagnostic Monitoring (DDM) is listed for all ordering variants. Monitoring accuracy, alarm thresholds and management-interface details are not specified.

8. Safety and regulatory

Laser-safety classification, regulatory certifications and standards-compliance declarations are not specified.

9. Ordering information

Product number	Description
S1G-BX10D-34	SFP BIDI, 1GE, DDM, SM, 10km, TX/RX=1310/1490nm, 11dB, LC
S1G-BX10D-43	SFP BIDI, 1GE, DDM, SM, 10km, TX/RX=1490/1310nm, 11dB, LC
S1G-BX40D-34	SFP BIDI, 1GE, DDM, SM, 40km, TX/RX=1310/1490nm, 18dB, LC
S1G-BX40D-43	SFP BIDI, 1GE, DDM, SM, 40km, TX/RX=1490/1310nm, 18dB, LC

Product number prefixes updated to S1G; technical values and suffixes retained. Source date: 20 October 2024. Source discrepancies are documented in the accompanying comments file.