

10G Ethernet SFP+ I-Temp Family

SR | LRM | LR | LR40 | ER | ZR

1. Product overview

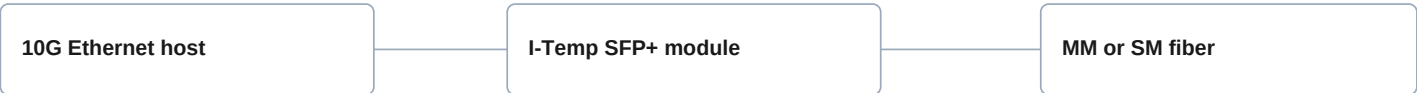
The GLOBALfiber 10G Ethernet SFP+ I-Temp family provides multimode and single-mode optical connectivity with a stated operating temperature range of -40°C to +85°C. Wavelength options include 850 nm, 1310 nm and 1550 nm. The ordering range lists links from 220 m to 80 km.

2. Key features

- SFP+ optical transceivers for 10G Ethernet
- Industrial temperature range: -40°C to +85°C
- Multimode (MM) and single-mode (SM) variants
- 850 nm, 1310 nm and 1550 nm wavelength options
- Digital Diagnostic Monitoring (DDM) listed for all ordering variants
- LRM requires electronic dispersion compensation (EDC)

3. Applications

10G Ethernet optical links requiring the specified industrial temperature range. Select the appropriate wavelength, fiber type, reach and optical power budget for the intended link.



4. Technical data

Parameter	Specification
Form factor / service	SFP+ / 10G Ethernet
Fiber types	Multimode (MM); single-mode (SM)
Optical wavelengths	850 / 1310 / 1550 nm, depending on variant
Stated ordering reaches	SR: 300 m; LRM: 220 m; LR: 10 km; ER: 40 km; ZR: 80 km
Monitoring	DDM listed for all five ordering variants
LRM requirement	Electronic dispersion compensation (EDC)

5. Recommended operating conditions

Parameter	Specification
Operating temperature	-40°C to +85°C, all optical-table variants
Supply voltage	Not specified
Power consumption	Not specified
Storage temperature	Not specified

10G Ethernet SFP+ I-Temp Family

6. Optical characteristics

Product number	Fiber	Wavelength (nm)	TX power (dBm)	RX sensitivity (dBm)	Budget (dB)
S10G-SR	MM	850	-6 to -1	-10 to 0	4
S10G-LRM	MM	1310	-6 to -1	-10 to 0	4
S10G-LR	SM	1310	-6 to +1	-15 to +1	9
S10G-LR40	SM	1310	-1 to +4	-16 to 0	15
S10G-ER	SM	1550	-1 to +4	-16 to 0	15
S10G-ZR	SM	1550	0 to +5	-23 to -8	23

Temperature range for every row: -40°C to +85°C. Receiver sensitivity values are retained as stated, including the supplied ranges.

7. Digital diagnostics and management

Digital Diagnostic Monitoring (DDM) is specified for all five products in the ordering table. 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

Parameter	Specification
S10G-SR-IND	SFP+, 10GE, DDM; 300 m; I-Temp; 850 nm; 4 dB; MM
S10G-LRM-IND	SFP+, 10GE, DDM; 220 m; I-Temp; 1310 nm; 3.4 dB; MM; requires EDC
S10G-LR-IND	SFP+, 10GE, DDM; 10 km; I-Temp; 1310 nm; 9 dB; SM
S10G-ER-IND	SFP+, 10GE, DDM; 40 km; I-Temp; 1550 nm; 15 dB; SM
S10G-ZR-IND	SFP+, 10GE, DDM; 80 km; I-Temp; 1550 nm; 23 dB; SM

Product number prefixes updated to S10G. Original suffixes and technical values retained. Source differences are documented in the separate source comments.