SMR-L15 / SMR-L40

SFP Multirate 100M-2.7G DDM | 1310 nm single-mode family

1. Product overview

GLOBALfiber multirate SFP optical transceivers provide serial optical data communications for telecom and data networking. This family supports 15 km / 40 km over single-mode fiber, with digital diagnostics accessible through an I2C serial interface.

2. Key features

Hot-pluggable SFP; digital diagnostic monitoring; 1310 nm single-mode transmission; 13 dB / 25 dB optical budgets.

3. Applications

STM-16 FEC / OC-48 FEC; STM-16 / OC-48; 1G/2G Fibre Channel; Gigabit Ethernet; STM-4 / OC-12; DVB-ASI; ESCON; STM-1 / OC-3.

4. Technical data

Parameter	Specification
Form factor	Small Form-Factor Pluggable (SFP)
Technical data-rate range	155 Mb/s to 2.67 Gb/s
Fiber	Single-mode
Reach	15 km / 40 km
Optical interface	LC
Wavelengths	1310 nm
Diagnostics	Digital diagnostics via I2C; SFF-8472

5. Recommended operating conditions

Parameter	Specification
Operating case temperature	0 to + 70 C
Supply voltage / power consumption	Not specified



Simplified functional illustration - not to scale

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6. Optical characteristics

Product number	Wavelength (nm)	TX output (dBm)	RX sensitivity (dBm)	Budget (dB)
SMR-L15	1310	-5 to 0	-18 to -3	13
SMR-L40	1310	-2 to +3	-27 to -9	25

Receiver ranges are reproduced under the original sensitivity heading; the upper value is not reclassified as overload.

7. Digital diagnostics and management

Digital diagnostic functions are available over the I2C serial bus specified by SFP MSA SFF-8472. Modules are hot-pluggable.

8. Safety and regulatory

ITU G.957 (SDH/SONET); IEEE 802.3 Gigabit Ethernet; ANSI Fibre Channel specifications; SFP MSA; SFF-8472. Class 1 laser product: IEC-60825 and FDA 21 CFR 1040.10 / 1040.11. Operate within specified temperature and voltage limits. Terminate optical ports with an optical connector or dust plug.

9. Ordering information

Parameter	Specification
SMR-L15	SFP Multirate 100M-2.7G DDM 15km, 1310nm 13dB SM
SMR-L40	SFP Multirate 100M-2.7G DDM 40km, 1310nm 25dB SM

10. General notes

The introduction gives an upper data rate of 2.67 Mb/s, while the title and applications give 2.67 Gb/s. The GLOBALfiber ordering descriptions use 100M-2.7G; the technical application range is 155 Mb/s to 2.67 Gb/s. The technical range is retained without inferring operation at other rates.