

S10G-L100-I-CXX

SFP+ 10GbE-eZR CWDM DDM 100km, I-Temp CWDM 1471nm-1611nm 27dB SM

1. Product overview

Hot-pluggable SFP+ optical transceiver for CWDM links up to 100 km over single-mode fiber. Duplex LC connectivity and a single +3.3 V supply support deployment in optical networks. Digital diagnostic monitoring provides operating information.

2. Key features

- Up to 10.7 Gb/s bit-rate support
- 100 km SMF reach; duplex LC connector
- Cooled CWDM EML transmitter; APD receiver
- CWDM wavelength range: 1471-1611 nm
- Digital Diagnostic Monitoring; RoHS compliant

3. Applications

10 Gb/s CWDM optical systems; 10GBASE-ZR at 10.3125 Gb/s; 10GBASE-ZW at 9.953 Gb/s; LTE systems; other optical links.

4. Technical data

Parameter	Specification
Form factor	SFP+; hot-pluggable
Supported bit rate	Up to 10.7 Gb/s
Fiber type	Single-mode fiber
Optical connector	Duplex LC
Maximum reach	100 km
Nominal power supply	+3.3 V

Parameter	Specification
Linked PDF rates	1.25-11.32 Gb/s table; 1.25-11.3 Gb/s overview
Additional applications (PDF)	1G Ethernet, CPRI, OTN G.709, Fibre Channel
Optical polish / dispersion	UPC; no external dispersion compensation required
Power / supply (PDF)	<1.5 W; about 1.2 W at 25°C; 3.3 V ±5%
Storage temperature (PDF)	-40 to +85°C

5. Recommended operating conditions

Parameter	Specification
Operating case temperature	-40 to +85°C
Power supply	+3.3 V

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6. Optical characteristics

Parameter	Specification
Wavelength range / band	1471-1611 nm
Transmitter type (features)	Cooled CWDM EML
Receiver type	APD
TX power	+1 to +4 dBm
Receiver sensitivity (product page)	< -26 dBm
Optical power budget	27 dB
Maximum transmission distance	100 km SMF
TX output power (linked PDF)	0 to +5 dBm
RX sensitivity (linked PDF)	-26 / -27 dBm max
RX overload (linked PDF)	-7 dBm min
Optical budget (linked PDF)	26-27 dB
Dispersion tolerance	2000 ps/nm max
CWDM channels (ITU-T G.694.2)	1471, 1491, 1511, 1531, 1551, 1571, 1591, 1611 nm; 20 nm spacing

7. Digital diagnostics and management

Real-time Digital Diagnostic Monitoring (DDM); SFP+ MSA and SFF-8472 compliance stated.

Linked PDF: I2C / SFF-8472 monitors module temperature, Vcc, laser bias, TX and RX power. Standards: SFF-8431, SFF-8432, IEEE 802.3ae, ITU-T G.694.2.

The sources do not list individual diagnostic thresholds or monitoring accuracy.

8. Safety and regulatory

SFP+ MSA; SFF-8472; RoHS. Laser safety class and numerical ESD ratings are not specified in the supplied sources.

9. Ordering information

Parameter	Specification
S10G-L100-I-CXX	SFP+ 10GbE-eZR CWDM DDM 100km, I-Temp CWDM 1471nm-1611nm 27dB SM
Related identifier in linked family PDF	S10G-L100-I-Cxx