

S10G-ER-CXX

SFP+ 10GbE ER DDM up to 40km CWDM 1471nm-1611nm 15dB SM

1. Product overview

Hot-pluggable SFP+ optical transceiver for CWDM links up to 40 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
- 40 km SMF reach; duplex LC connector
- CWDM DFB transmitter; PIN receiver
- CWDM wavelength range: 1471-1611 nm
- Digital Diagnostic Monitoring; RoHS compliant

3. Applications

10 Gb/s CWDM optical systems; 10GBASE-LR at 10.3125 Gb/s; 10GBASE-LW 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	40 km
Nominal power supply	+3.3 V

5. Recommended operating conditions

Parameter	Specification
Operating case temperature	0 to +70°C
Power supply	+3.3 V; tolerance not specified

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6. Optical characteristics

Parameter	Specification
Wavelength range / band	1471-1611 nm
Transmitter type (features)	CWDM DFB
Transmitter type (separate specification)	CWDM EML
Receiver type	PIN
TX power	-1 to +5 dBm
Receiver sensitivity (product page)	< -16 dBm
Optical power budget	15 dB
Maximum transmission distance	40 km SMF
Receiver sensitivity (family PDF)	-16 to 0 dBm

7. Digital diagnostics and management

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

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
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Related identifier in linked family PDF	SFP-10G-ER-Cxx