

S25G-L40I-CXX

SFP28 25 GbE-LR DDM 40km I-Temp CWDM 1471-1611nm 16dB SM

1. Product overview

Hot-pluggable SFP28 CWDM transceiver with EML laser and APD receiver, supporting eight channels and up to 40 km over SMF with host FEC. The description names S25G-L40-Cxx and describes use in outdoor cabinets and tower base stations.

2. Key features

- 40 km SMF transmission
- Duplex LC optical interface
- Digital Diagnostic Monitoring (DDM)
- Hot-pluggable form factor; single +3.3 V supply

3. Applications

5G/4G fronthaul; metro CWDM access; FTTx/broadband backhaul; data center interconnect; utility, industrial and enterprise optical networks.

4. Technical data

Parameter	Specification
Data rate	Up to 25.78 Gb/s
Fiber	Single-mode fiber
Connector	Duplex LC
Power consumption	≈ 1.5 W
Host interface	SFI
Differential impedance	100

5. Recommended operating conditions

Parameter	Specification
Case temperature	-40 to +85°C
Nominal supply	+3.3 V
Maximum reach	40 km with host FEC

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6. Optical characteristics

Parameter	Specification
TX CWDM range	1470-1610 nm
CWDM channels	8
Title wavelength range	1471-1611 nm
TX output power	0 to +5 dBm
RX sensitivity	= -16 dBm
Receiver overload	= -4 dBm
Optical power budget	16 dB

7. Digital diagnostics and management

Parameter	Specification
Monitored parameters	Temperature, voltage, bias current, TX power and RX power

8. Safety and regulatory

SFP MSA; Class 1 laser; RoHS.

9. Ordering information

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