



SFP-10/25G-LR-I DataSheet

Cisco SFP-10/25G-LR-I is a dual-rate 10G/25G SFP28 industrial LR transceiver for SMF up to 10km, -40~85°C. Ideal for harsh environments, CPRI, and metro backbone. RS-FEC required for 25G.

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SFP-10/25G-LR-I Description

SFP-10/25G-LR-I is a Cisco industrial-temperature SFP28 optical transceiver supporting both 10G and 25G Ethernet over single-mode fiber. Designed for deployment in harsh or extreme environments, this module operates from -40°C to 85°C and supports up to 10 kilometers on G.652 SMF. With a standard LC duplex interface, 1310nm wavelength, and robust build quality, SFP-10/25G-LR-I delivers reliable long-range connectivity for industrial data centers, metro networks, and mobile fronthaul/backhaul. Dual-rate support enables seamless upgrades from 10G to 25G networks, while CPRI options 7–10 extend its application to wireless and telecom environments. RS-FEC is required for 25G operation.

Product Highlights

Data Rate
Wavelength
Max. Distance

Model comparison

Parameter	SFP-10/25G-LR-I	SFP-10/25G-LR-S	SFP-10/25G-CSR-S
Form Factor	SFP28	SFP28	SFP28

Data Rate	10/25 Gbps	10/25 Gbps	10/25 Gbps
Wavelength	1310 nm	1310 nm	850 nm
Fiber Type	SMF	SMF	MMF
Max. Distance	10 km	10 km	300m (OM3)/400m (OM4)
Power Consumption	1.3 W	1.3 W	1.2 W
Operating Temp.	-40~85°C (IND)	0~70°C (COM)	0~70°C (COM)
CPRI Support	Yes (7,8,9,10)	No	No
FEC Requirement	RS-FEC (25G)	RS-FEC (25G)	RS-FEC (25G)
Hot-swappable	Yes	Yes	Yes
Connector	LC Duplex	LC Duplex	LC Duplex
Rate Support	10G/25G	10G/25G	10G/25G

Specification

Parameter	Value
Product Model	SFP-10/25G-LR-I
Form Factor	SFP28
Data Rate	10/25 Gbps (dual-rate)
Wavelength	1310 nm
Interface	LC Duplex (PC/UPC)
Cable Type	Single-Mode Fiber (SMF, G.652)
Max. Distance	10 km
Transmit Power (max/min)	+2.0 dBm / -5.5 dBm (25G) +0.5 dBm / -6.7 dBm (10G)
Receive Power (max/min)	+2.0 dBm / -14.8 dBm (25G) +0.5 dBm / -15.9 dBm (10G)
Power Consumption	1.3 W

Parameter	Value
Operating Temperature	-40 to 85°C (-40 to 185°F)
Storage Temperature	-40 to 85°C (-40 to 185°F)
FEC Requirement	RS-FEC required for 25G
CPRI Support	Options 7, 8, 9, 10
Connector	Dual LC/PC
Compliance	IEEE 802.3by, SFF-8402, SFF-8472, RoHS 6

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