SFP-10/25G-CSR-S DataSheet

Cisco SFP-10/25G-CSR-S is a dual-rate 10G/25G SFP28 CSR transceiver supporting up to 400m on OM4 fiber. Ideal for high-performance, extended-range data center and aggregation links. RS-FEC required for 25G

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SFP-10/25G-CSR-S Description

SFP-10/25G-CSR-S is a Cisco dual-rate SFP28 optical transceiver supporting both 10Gbps and 25Gbps Ethernet. Designed for extended-reach, high-performance data center connections, it enables seamless upgrades and compatibility in mixed 10G/25G environments. This module operates over OM3/OM4 multimode fiber, delivering up to 300 meters (OM3) or 400 meters (OM4/OM5) with standard LC connectors. SFP-10/25G-CSR-S is hot-swappable, energy efficient (1.2W), and requires RS-FEC for 25G operation. Commonly known as Cisco 25G CSR SFP28 or 10/25G SFP28 CSR, it is ideal for modern leaf-spine architectures, inter-rack connections, and aggregation links in cloud, enterprise, and service provider networks.

Product Highlights

Data Rate

Wavelength

Max. Distance

Key Features

- **Application:**
    - Designed for extended-reach 10G/25G Ethernet links within and between data center racks, large server rooms, or campus buildings.

- Excellent for leaf-spine, inter-rack, and cross-floor aggregation, especially where fiber runs exceed typical SR or SL distances.
- **Functionality:**
  - Dual-rate (supports both 10G and 25G speeds) for flexible upgrade and mixed-network deployments.
  - Longest multimode reach in SFP28 series (up to 300m on OM3, 400m on OM4/OM5).
  - RS-FEC required on host for 25G operation; optional for 10G.
  - Ideal for future-proofing large data centers, minimizing switch layers, and supporting scalable cloud architectures.
- **Industries:**
  - Telecom, cloud providers, large enterprises, universities, research institutions.

Model comparison

Parameter	SFP-10/25G-CSR-S	SFP-25G-SR-S	SFP-25G-SL
Form Factor	SFP28	SFP28	SFP28
Data Rate	10/25 Gbps	25 Gbps	25 Gbps
Wavelength	850 nm	850 nm	850 nm
Fiber Type	MMF	MMF	MMF
Max. Distance	300m (OM3)/400m (OM4)	70m (OM3)/100m (OM4)	20m (OM3)/30m (OM4)
Power Consumption	1.2 W	1.2 W	1.2 W
Operating Temp.	0~70°C	0~70°C	0~70°C
FEC Requirement	RS-FEC (25G)	RS-FEC required	RS-FEC required
Hot-swappable	Yes	Yes	Yes
Connector	LC Duplex	LC Duplex	LC Duplex
Rate Support	10G/25G	25G only	25G only

Specification

Parameter	Value
Product Model	SFP-10/25G-CSR-S
Form Factor	SFP28
Data Rate	10/25 Gbps (dual-rate)
Wavelength	850 nm
Interface	LC Duplex (PC/UPC)
Cable Type	MMF (OM3/OM4/OM5)
Max. Distance	300m (OM3) / 400m (OM4/OM5)
Transmit Power (max/min)	+2.4 dBm / -7.3 dBm (10G), +2.4 dBm / -6 dBm (25G)
Receive Power (max/min)	+2.4 dBm / -9.9 dBm (10G), +2.4 dBm / -8.7 dBm (25G)
Power Consumption	1.2 W
Operating Temperature	0 to 70°C (32 to 158°F)
Storage Temperature	-40 to 85°C (-40 to 185°F)
FEC Requirement	RS-FEC required for 25G
Connector	Dual LC/PC
Compliance	IEEE 802.3by, SFF-8402, SFF-8472, RoHS 6

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