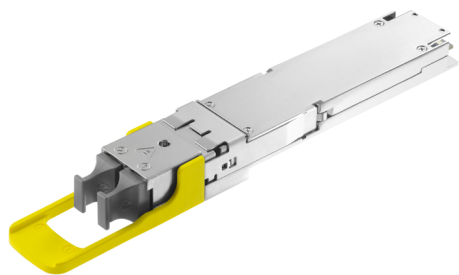


Optical Transceiver



1.6T 2*DR4 500M OSFP-RHS

General Description

The 1.6T-2×DR4 500M OSFP-RHS Transceiver is a next-generation high-speed optical module designed for hyperscale data centers and AI/ML networks. It adopts a hot-pluggable OSFP1600 form factor and integrates a high-bandwidth EML transmitter with a PIN photodetector receiver, enabling an aggregate bit rate of 1.6Tbps. Supporting 8×200G Ethernet, this transceiver offers exceptional performance for short-reach applications up to 500 meters, making it an ideal solution for ultra-high bandwidth, low-latency interconnects.



OSFP Serial Optical Interface

- 1.6TBASE-DR8 optical interface
- 1.6TAUI-8 C2M electrical interface
- Two wire serial Interface with digital diagnostic monitoring



OSFP MSA Compliant

- Hot-pluggable OSFP1600 form factor
- Compliant with OSFP MSA Specification Rev 5.1 RHS type 2 housing with Dual MPO-12/APC receptacle
- Compliant with CMIS Rev 5.3



Standards and Low Power Consumption

- Compliant with IEEE802.3dj D1p3
- Less than 30W in temperature range of 0 to 70 °C

Optical Transceiver

Technical Data

Model	1.6T-2*DR4 500 OSFP-RHS	Transmission rate	1.6 Tb/s (8×200G)
Package Type	OSFP 1600	Transmission distance	500 meters
Wavelength	1304.5~1317.5nm	Fiber type	Single Mode Fiber (SMF)
Connector	MPO-12/APC	Receiver type	PIN
Transmitter type	EML	Commercial Temperature	0~70 °C
Data diagnosis	Yes	Receiver sensitivity	≤ -3.4 dBm (OMAouter)
Transmitted optical power	-3.3 - 4dBm (average per lane)	Receive overload	≤ 4.2 dBm (OMAouter)
Power Supply Voltage	3.135 - 3.465V	Extinction Ratio	≥ 3.5 dB
Power Consumption	Up to 30 W (2 W in Low Power Mode)	Packaging scheme	OSFP, RHS Type 2 housing, per OSFP MSA Rev 5.1
Modulation	PAM4	FEC function	Yes
Application	Ethernet	Warranty	3 Years
Protocol	IEEE 802.3dj D1p3 compliant (host-based FEC)	Brand	Hermesys

Order Information

PART NUMBER	DESCRIPTION
OSFP-21A6005H5A-RH	OSFP SM 1.6T 500M DR4 12MPO/APC RHS