

1.6T-OSFP224-2FR4 1.6T 2xFR4 OSFP224 RHS 8x200G PAM4 1310nm 2km Dual Duplex LC/UPC

SMF Transceivers

Quick Details

Part number:VC-OSFP224-2FR4

Connector Type: Dual Duplex LC/UPC

Form Factor: Twin-port OSFP RHS/Flat Top

Wavelength: 1271nm, 1291nm, 1311nm and 1331nm

Distance:2km

Fiber Type: SMF

Description

This product is an 1600Gb/s Octal Small Form-factor Pluggable (OSFP-RHS) optical module with closed top fin designed for 3km optical communication applications. The module converts 8 channels of 200Gb/s (PAM4) electrical input data to 2 sets of 4 CWDM optical signal and multiplexes them into 2 sets of a signal channel for 850Gbps optical transmission. Reversely, on the receiver side, the module optically de-multiplexes 2 sets of a signal channel 850Gbps signal inputs into 2 sets of 4 CWDM channel signals and converts them to 8 output channels of 200G electrical data.

The central wavelengths of the 4 CWDM channels are 1271, 1291, 1311 and 1331 nm as members of the CWDM wavelength grid defined in ITU-T G.694.2. It contains an optical Dual SMF LC duplex connector for the optical interface and a 60-pin connector for the electrical interface. To minimize the optical dispersion in the long-haul system, single-mode fiber (SMF) has to be applied in this module. Host FEC is required to support up to 2km fiber transmission.I2C interface is supported to read and control the status of this product.

Features

- OSFP form factor hot pluggable
- CMIS compliance
- 2 sets of 4 CWDM lanes MUX/DEMEX design
- Dual duplex LC connector, UPC
- IHS, Closed Top Fin
- Up to 2km maximum reach via single mode fiber
- 32 Watts max
- Case temperature range of 0°C to 70°C

Applications

- 1x1.6Tb/s Ethernet
- 2x800Gb/s Ethernet
- 4x400Gb/s Ethernet
- 8x200Gb/s Ethernet

Specifications

Part No.	VC-OSFP224-2FR4	Form Factor	Twin-port OSFP RHS/Flat Top
Distance	2km	Wavelength	1271nm, 1291nm, 1311nm and 1331nm
Transmitter Type	EML	Connector	Dual Duplex LC/UPC
Receiver Type	PIN	Media	SMF
TX Power	-2.2~4.9dBm	Minimum Receiver Power	-6.2dBm
Power Budget	4dB	Receiver Overload	4.9dBm
Max. Power Consumption	30W	Extinction Ratio	≥3.5dB
DDM/DOM	Supported	Commercial Temperature Range	0 to 70°C
Modulation (Electrical)	8x 200G-PAM4	Modulation (Optical)	Dual 4x 200G-PAM4