

800G OSFP224 SMF OS2 LC Duplex 1310nm

Variants

500M 1Km 2Km 10km

Details

800G OSFP224 SMF (OS2) LC Duplex 1310 nm

Product Overview

The **800G OSFP224** transceiver is an advanced high-speed optical module designed for next-generation data centers and core network interconnections. It supports an aggregate bandwidth of 800 Gbps using eight electrical lanes at 100 Gbps each. Operating at a wavelength of 1310 nm, the module delivers reliable performance over single-mode fiber (OS2) with excellent power efficiency and thermal stability.

The module is available in **FR4 (2 km)** and **LR4 (10 km)** variants, providing flexibility for both short- and long-reach single-mode applications.

Main Characteristics

- ? Compact **OSFP224** form factor, compliant with OSFP MSA
- ? **Hot-pluggable** optical interface
- ? Supports **800 Gbps** data transmission (8 x 100 G lanes)
- ? Operates on **1310 nm** CWDM wavelength grid
- ? Available with **LC Duplex** optical interface
- ? Low power consumption and optimized thermal design
- ? Digital diagnostics monitoring (DDM/DOM) supported
- ? Designed for data centers, cloud networks, and DCI links
- ? Fully compliant with **IEEE 802.3df** standard
- ? **RoHS 2.0** compliant

Technical Parameters

Parameter	Specification
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Form Factor	OSFP224
Data Rate	800 Gbps aggregate
Transmission Distance	FR4: up to 2 km / LR4: up to 10 km
Wavelength	1310 nm
Fiber Type	Single Mode (OS2)
Connector Type	LC Duplex
Power Supply Voltage	+3.3 V
Power Consumption	? 16 W (typical)
Operating Temperature	0°C to 70°C
Storage Temperature	-40°C to 85°C
Digital Diagnostics	Supported
EMC / Safety	CE, FCC, RoHS 2.0

Applications

- ? 800G Ethernet links between data center switches and routers
- ? High-speed interconnects for cloud and AI computing networks
- ? Data Center Interconnect (DCI) solutions
- ? Enterprise backbone and metro transmission systems