800G OSFP224 SMF OS2 LC Duplex 1310nm

Variants

10km 1Km 2Km 500M

Details

800G OSFP224 SMF (OS2) LC Duplex 1310 nm Transceiver

Product Overview

The 800G OSFP224 transceiver is a high-speed optical module designed for next-generation data centers and core network interconnections. It supports an aggregate bandwidth of 800 Gbps (8 × 100G lanes). Operating at 1310 nm wavelength, the module delivers stable and efficient performance over single-mode fiber (OS2).

It is available in two transmission options: **FR4** for distances up to 2 km and **LR4** for distances up to 10 km. This makes it suitable for both short and long-distance data center applications.

Main Characteristics

No.	Feature
1	OSFP224 form factor, compliant with OSFP MSA
2	Hot-pluggable optical interface
3	800 Gbps transmission (8 × 100G lanes)
4	1310 nm CWDM wavelength operation
5	LC Duplex optical interface

6	Low power consumption and optimized thermal design
7	DDM / DOM supported
8	Designed for data centers, cloud networks, and DCI
9	Compliant with IEEE 802.3df standard
10	RoHS 2.0 compliant

Technical Parameters

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

Applications

No.	Application
1	800G Ethernet data center links
2	Cloud computing and AI infrastructure
3	Data Center Interconnect (DCI)
4	Enterprise backbone and metro networks