800G OSFP112DD SMF Duplex LC 1310 nm

Variants

80km 40km 20km 2km

Details

800G OSFP112DD Optical Transceiver Module

Overview

The 800G OSFP112DD transceiver module supports **8 × 106.25 Gb/s PAM4 channels** for up to **800 Gb/s transmission** over single-mode fiber.

It is available for **short-, medium-, and long-reach links (2 km to 80 km)**, using **1310 nm LAN-WDM** or **C-band coherent technology**.

Designed for high-capacity **data center, cloud, and metro network applications**.

Main Features

?	OSFP112 Double-Density form factor
?	8 × 106.25 Gb/s PAM4 electrical interface
?	Duplex LC optical connector
?	LAN-WDM (1271 – 1331 nm) / C-band coherent options
?	Transmission reach: 2 km / 10 km / 40 km / 80 km
?	Power consumption: ?16W (IM-DD) / ?24W (Coherent)
?	Single 3.3 V power supply
?	Operating case temperature: 0°C to 70°C
?	Digital diagnostics (CMIS 5.x supported)

?	RoHS compliant

Applications

800 Gigabit Ethernet links
Data Center Interconnect (DCI)
Metro core & aggregation networks
AI / ML high-throughput connections

Environmental Conditions

Parameter	**Range**
Case Operating Temperature	0 °C to +70 °C
Storage Temperature	?40 °C to +85 °C
Relative Humidity	5% – 85% (non-condensing)
ESD Protection	?1 kV / ?500 V HBM

Compliance

IEEE 802.3df / OSFP MSA
CMIS Rev. 5.x
CE / FCC / RoHS 2.0
IEC 60825-1 Class 1 Laser Safety
Telcordia GR-468 Reliability Tested

Ordering Information

Model Code	**Reach**	**Wavelength**	**Connector**	**Fiber**	**Power**

DTX-800G-OSFP112DD-FR8	2 km	1310 nm	LC Duplex	OS2 SMF	?14W
DTX-800G-OSFP112DD-LR8	10 km	1310 nm	LC Duplex	OS2 SMF	?16W
DTX-800G-OSFP112DD-ER8	40 km	1310 nm	LC Duplex	OS2 SMF	?18W
DTX-800G-OSFP112DD-ZR	80 km	C-band	LC Duplex	OS2 SMF	?24W

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