

800G OSFP112DD SMF (OS2) MPO 1310 nm

Variants

1km 500M 2km

Details

800G OSFP112-DD | SMF (OS2) | MPO | 1310 nm

Available distances: 500 m • 1 km • 2 km

General Overview

- ? OSFP112 Dual-Density hot-pluggable optical module
 - ? Parallel 8 × 100 Gbps lanes based on PAM4 (106.25 Gb/s each)
 - ? Operates in the 1310 nm O-band for short to mid-reach links
 - ? MPO-16 (APC) interface for eight Tx + eight Rx fibers
 - ? Supports IEEE 802.3df / CMIS 5.x management
 - ? Optimized for low latency AI/ML and DCI interconnects
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Key Highlights

- Hot-pluggable OSFP form factor with integrated heatsink
 - Electrical interface: 8 × CAUI-112 (100 ? AC coupled)
 - Supply voltage: single 3.3 V rail ($\pm 5\%$)
 - Power consumption: ? 14–16 W (variant-dependent)
 - Operating temperature: 0 °C to 70 °C (case)
 - Compliant with RoHS 2.0 and IEC laser safety Class 1
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Optical Performance

- ? **Transmission wavelength:** 1310 nm nominal
- ? **Modulation format:** PAM4 53 GBd per lane
- ? **Tx OMA-outer:** –2.9 to +4.0 dBm (typ.)
- ? **Receiver sensitivity:** –5.9 dBm (DR8) / –4.5 dBm (FR8)

? Tx dispersion penalty: ? 3.5 dB
? Extinction ratio: ? 3.5 dB

Distance Variants

Variant	Optical Type	Fiber Type	Reach	Use Case
DR8	1310 nm Parallel SMF	OS2	500 m	Rack-to-rack / Row links
XDR8	Extended DR8	OS2	1 km	Building or campus links
FR8	1310 nm Parallel SMF	OS2	2 km	Aggregation / Metro DC links