

COLORZ® 800

800ZR/ZR+ QSFP-DD/OSFP

Product Type

800ZR/ZR+ QSFP-DD
800ZR/ZR+ OSFP

Market Segments

Between Data Centers

Applications

Data Center Interconnects (DCI)
800 Gbps ZR/ZR+ up to 500 km

Features

- Compatible with QSFP-DD/OSFP MSA
- Compatible with OIF 800ZR and OpenZR+
- Compatible with Common Management Interface Specification (CMIS) and OIF Coherent Module Management Interface Specification
- 800 Gbps with single optical carrier (120 Gbaud, 16QAM)
- Fully C-Band or L-Band tunable
- Enables up to 64Tbps per fiber
- Two-wire management interface (TWI) with extended digital diagnostic monitoring

Description

COLORZ® 800 is a family of 800 Gbps ZR/ZR+ pluggable Digital Coherent Optics (DCO) transceivers. This DCO can be plugged into compatible switches and routers for coherent transmission of 800GbE signals over DWDM links. COLORZ 800 offers both QSFP-DD and OSFP form factor.

The transmitter is tunable over the ITU C-Band or L-Band. COLORZ 800 includes a narrow linewidth tunable laser, Silicon Photonics Modulator, coherent receiver, and coherent digital signal processor (DSP).

Optical signals are transmitted and received from the module by standard duplex SMF and LC receptacles.

COLORZ 800 utilizes Marvell's new 5 nm Orion coherent DSP, field proven silicon photonics platform, driver, and TIA technology to provide coherent transmission performance previously only available on lower density, higher power, and higher cost systems.