

Certified Passive Optical Network 800G



Summary of Content

Certified 800G PON solutions leverage OSFP modules, DAC/AOC cables, and coherent optical interfaces to deliver high-speed, interoperable, and low-latency connectivity for data centers and service provider networks.

800G Optical Transceivers

OSFP 800G transceiver modules provide 800 Gigabit Ethernet connectivity with flexible options for 400GE, 200GE, and 100GE interfaces. These modules are certified and tested for superior performance, quality, and reliability, supporting high-speed electrical and optical compliance with IEEE 802.3 standards. They are suitable for AI applications, data centers, high-performance computing networks, and service provider core and distribution layers (Cisco OSFP 800G Data Sheet) . Coherent 800G transceivers follow the OIF-800ZR standard, enabling single-wavelength 800G coherent line interfaces for point-to-point DWDM links over 80–120 km. These modules support client interfaces of 100GE, 200GE, 400GE, and 800GE, using dual-polarization 16QAM modulation and forward error correction (OFEC) for high reliability in DCI and metro networks (OpenZR+ 800G Whitepaper) .

Passive and Active Cables



Article Content

800G QSFP-DD Digital Coherent Optics Transceiver

The 800G Digital Coherent Optics (DCO) family of transceivers are available in two small form-factors, QSFP-DD and OSFP, which

G.9804.1 : Higher speed passive optical networks

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800Gb/s OSFP Transceivers | Optical Interconnect | Amphenol

Amphenol's 800G OSFP optical modules include 2xDR4 (plus), 2xFR4 (plus), 2xLR4, AOC, and AOC breakout series,

Cisco OSFP 800G Transceiver Modules Data Sheet

Learn more about how Cisco is using Inclusive Language. The Cisco ® OSFP 800G transceiver modules provide 800

800G Optics

Qualified for use across Juniper's 800GbE-capable PTX and QFX product families, Juniper offers an expanding portfolio of 800G

Approved Networks

The 800G transceiver is ideal for data center networking and Artificial Intelligence (AI) applications such as supercomputer clustering.

800G OpenZR+

The advancements in 800G standardization efforts by OIF and the Open ROADM MSA group have laid a robust

FS 800G Transceivers and Cables Complete Guide

FS provides a comprehensive portfolio of 800G optical transceivers and DAC/AOC cables for data centers, engineered

Cisco QSFP-DD and OSFP 800G ZR/ZR+ Coherent Optics Modules

The 800G ZR+ modules leverage the industry-standard OpenROADM interoperable Probabilistic Constellation Shaping (PCS) mode

800G Networking Solutions

Whether it's deployed in hyperscale data centers, edge clusters, or distributed AI fabrics, our 800G technology supports model

Contact Us

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