

Ireland Solutions Active Optical Equipment QSFP-DD



Article Overview

QSFP-DD (Quad Small Form-Factor Pluggable Double Density) active optical cables provide high-speed, high-density connectivity for 200G, 400G, and 800G Ethernet networks, optimized for data centers and high-performance computing.

Key Features and Specifications

QSFP-DD AOCs are designed to deliver high-bandwidth optical connectivity with compact form factors. They typically support:

- Data Rates: 200G, 400G, and up to 800G per link depending on the transceiver and cable type .
- Fiber Type: Multimode (OM4) or single-mode fibers for short- and long-reach applications .
- Lane Configuration: 8 lanes per end for 400G, doubling the density compared to QSFP28 modules .
- Standards Compliance: IEEE 802.3cd, OIF-CEI-04.0, QSFP-DD MSA, and QSFP-DD-CMIS-rev4p0 .
- Reach: Typically up to 100 meters over parallel multimode fiber for 200G AOCs, and up to 15 meters for 400G HPE cables .
- Modulation: NRZ or PAM4 depending on the speed and vendor .

Applications

QSFP-DD AOCs are widely used in:

Article Content

QSFP-DD Module Testing

QSFP-DD optical modules are the mainstream form factor for 400G client interfaces. This white paper shares the key factors in

QSFP DD 200G Active Optical Cable Assemblies

Amphenol QSFP DD to QSFP DD 200G Active Optical Cable assemblies increase the number of lanes from 4 to 8 and double the

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BlazingFast Photonics delivers high-speed optical transceivers, silicon photonics, co-packaged optics, OSFP 1.6T modules, laser

QSFP-DD Optical Transceivers for High-Speed Connections

Product overview The ongoing explosion of data traffic is driving the need for faster processing, greater bandwidth, and higher

100m (328ft) 400G QSFP-DD Active Optical Cable for FS Switches

The 400G QSFP-DD active optical cables are designed for use in 400 Gigabit Ethernet links over OM4 multimode fibres, and contain

800G QSFP-DD Active Optical Cable Data Sheet | FS

The 800G QSFP-DD Active Optical Cable is designed for 800 Gigabit Ethernet links over OM4 multimode fiber. This cable is

Cisco Compatible Transceivers | SFP, SFP+, QSFP28, QSFP-DD

Cisco Compatible Transceivers - Matching our product portfolio with Cisco transceivers allows you to identify suitable alternatives.

40G QSFP+ Transceiver Modules | Optical Transceivers

FS 40G QSFP+ optical transceiver module solutions offer a full range of QSFP+ modules from 150m to 80km reach, and used for

Contact Us

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