Namibia CE Certified High-Speed Optical Connector QSFP-DD



Overview

400G OpenZR+ High Power QSFP-DD DCO | 60kmOur EDGEOPTIC 400G-QDD-DCO-ZRHP is a multi-vendor QSFP-DD Connectors | High Speed I/O | AmphenolDesigned for opti.

Key Takeaways

QSFP-DD optical connectors provide high-speed, CE-compliant interconnect solutions supporting up to 800G per port, suitable for data centers and high-performance networking applications. Overview of QSFP-DD Optical ConnectorsQSFP-DD (Quad Small Form-factor Pluggable Double Density) connectors are high-density, multi-lane pluggable interconnects designed to meet the growing bandwidth demands of modern data centers, AI/ML workloads, and telecommunication networks. They support 8 high-speed electrical lanes, capable of transmitting 28 Gbps NRZ, 56 Gbps PAM4, and up to 112 Gbps per lane, enabling aggregate data rates of 200G, 400G, and 800G.

These connectors are backward compatible with QSFP+, QSFP28, and QSFP56 modules, allowing flexible network upgrades without replacing existing infrastructure. Technical FeaturesHigh-Density Design: QSFP-DD maintains the same port density as QSFP28 while doubling the lane count, supporting 256 differential pairs across 32 ports in a compact footprint. Electrical and Optical Compatibility: Supports both optical and copper interfaces, including multimode and single-mode fiber, with thermal and EMI management optimized for high-speed operation.

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Thermal Management: Incorporates riding heatsinks and flexible thermal designs to ensure reliable operation of 400G and 800G modules under high-power conditions. Interoperability: Compatible with industry standards such as IEEE 802. 3bj, InfiniBand EDR, SAS 3.

0, OpenZR+, and OpenROADM MSA, ensuring seamless integration across routers, switches, and optical networks. ApplicationsQSFP-DD optical connectors are ideal for: Data Center Interconnects (DCI), including edge, metro, and regional networks.

High-

Performance Computing (HPC) and AI/ML workloads requiring ultra-low latency and high throughput. Service Provider Networks for long-haul and ultra-long-haul optical links. Ethernet, Fibre Channel, and InfiniBand environments, supporting next-generation 400G and 800G deployments.

C

E Certification and AvailabilityCE certification ensures that QSFP-DD connectors meet European safety, health, and electromagnetic compatibility standards, which is critical for deployment in Namibia and other regions requiring compliance with international standards. While specific Namibia distributors are not listed in the sources, global suppliers such as Molex, Amphenol, Cisco, and Acacia provide CE-certified QSFP-DD modules that can be shipped to Namibia. SummaryCE-certified QSFP-DD optical connectors offer high-speed, high-density, and backward-compatible solutions for modern networking and data center applications.

They support up to 800G per port, provide flexible thermal and optical management, and comply with international standards, making them suitable for deployment in Namibia's high-performance networking environments.

Article Content

QSFP-DD Connectors | High Speed I/O | Amphenol

Designed for optimized performance, cost and high-volume manufacturability, it supports multiple connector/heat-sink configurations, and full

QSFP-DD Linear Pluggable Optics (LPO)

Amphenol''s QSFP-DD Linear Pluggable Optical (LPO) Transceiver delivers low-latency, high-bandwidth PCIe ® Gen 5.0 over optical link, enabling

Optical Connector – QSFP-DD

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The QSFP-DD MSA will define a new pluggable form factor that supports 8 high speed electrical interfaces connecting to the host. This will include a mechanical module, a 2x1 Cage with connector,

Cisco 400G QSFP-DD High-Power (Bright) Optical

Learn how Cisco 400G QSFP-DD High-Power (Bright) Optical module''s small size and low power make it an optimal choice for a wide range of

Double Density Flyover® QSFP Cable System

FQSFP-DD products are capable of protocols whose channel data rates are less than this CPM. For more information, please read this blog article: A New High

Namibia SFP Optical Module 400G

BlazingFast Photonics delivers high-speed optical transceivers, silicon photonics, co-packaged optics, OSFP 1.6T modules, laser drivers, TIAs, DFB lasers, VCSEL arrays, and LPO solutions for data

QSFP-DD Product Family » Acacia

Powered by Greylock and Delphi DSP ASICs, and silicon photonic integrated circuits (PICs) for an optimized co-packaged design with 3D Siliconization.

QSFP-DD Connectors, Cages and Cable Assemblies

QSFP-DD provides high-performance computing capability. The QSFP interconnects density is doubled with electrical interface, providing superior thermal and signal integrity.

The Ultimate Guide to QSFP Cables: What You.

The Ultimate Guide to QSFP Cables: What You Need to Know? SFP vs. SFP+ vs. QSFP Key Differences Choosing the right high-speed interconnect

QSFP-DD Optical Transceivers for High-Speed Connections

Quad Small Form-Factor Pluggable Double-Density (QSFP-DD) offers twice as many high-speed electrical interfaces as QSFP28 while maintaining the same port density. When combined with higher

QSFP-DD Connectors | High Speed I/O | Amphenol

Amphenol''s QSFP-DD high-speed connector family features a scalable, high-performance interconnect platform with 76 contacts on a 0.8mm pitch and a dual-mating interface.

QSFP DD Guide: High-Speed QSFP DD Optical Modules

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Learn how QSFP DD enables high-speed 400G networking with higher density, compatibility, and performance for modern data centers.

QSFP Versus QSFP-DD Here Are the Key Differences

Here you can see the QSFP28 100G optic on the left, and the QSFP-DD 400G optic on the right. Notice that the QSFP-DD has more connection pads

Cisco 400G QSFP-DD Cable and Transceiver Modules

The Cisco® family of QSFP-DD modules provide the industry''s highest bandwidth density while leveraging the backward compatibility to lower

Cisco QSFP-DD800 Transceiver Modules Data Sheet

The Cisco family of QSFP-DD800 modules leverages the cornerstone of high-speed, high-density pluggable form factors, QSFP. The QSFP-DD800

SFP vs QSFP: Key Differences Explained

SFP vs QSFP module differences explained. Learn about compatibility, speeds, and use cases for network setups.

SFP, QSFP, QSFP-DD, OSFP Active Optical Cable Assemblies

SFP, QSFP, QSFP-DD, OSFP ACTIVE OPTICAL CABLE ASSEMBLIES Our active optical cable assembly portfolio provides improved cable flexibility and longer reach as compared to both

QSFP-DD Hardware

August 7, 2020 Abstract: This specification defines: the electrical and optical connectors, electrical signals and power supplies, mechanical and thermal requirements of the pluggable QSFP Double

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