

Article Overview

QSFP-DD transceivers in South Africa provide high-speed 400G connectivity for data centers, enterprise networks, and high-performance computing, with local suppliers offering a range of compatible modules.

Overview of QSFP-DD

QSFP-DD (Quad Small Form-Factor Pluggable Double Density) is a high-density, high-speed transceiver standard designed for 400 Gigabit Ethernet applications. It supports eight high-speed lanes, each capable of 50Gbps or 56Gbps, enabling aggregate data rates up to 400Gbps. QSFP-DD modules are backward compatible with QSFP56 and QSFP28 ports, allowing flexible upgrades without replacing existing infrastructure .

Key Features

- o High Bandwidth Density: Supports up to 400Gbps per port, with some interconnect systems capable of 800Gbps or 1.6Tbps per switch slot .
- o Hot-Swappable: Modules can be installed or replaced without shutting down the network .
- o Digital Diagnostic Monitoring (DDM): Real-time monitoring of temperature, voltage, and optical power for operational reliability .
- o Connector Types: MPO, MPO-16 APC, and LC connectors are commonly used depending on the module type and fiber compatibility .
- o Compatibility: Works with multimode (OM3/OM4/OM5) and single-mode fiber, supporting link lengths from 50m to 2km depending on the module .

Popular QSFP-DD Modules in South Africa

- o Eaton Tripp Lite N286-400G-SR8-G
 - o 400GBASE-SR8 compliant, multimode fiber
 - o 850 nm wavelength, up to 100 meters
 - o Zinc housing for EMI protection
 - o Hot-swappable with MPO/APC connector
- o Cisco 400G QSFP-DD Modules
 - o Supports 400GBASE-SR4.2, VR4, DR4, and 4x100G breakout
 - o MPO-12 or MPO-16 APC connectors
 - o Link reach up to 50m over OM4/OM5 MMF
 - o Compliant with IEEE 802.3bs and 400GAUI-8 standards

- o FS(R) 400G QSFP-DD Modules
- o QDD-SR8-400G: up to 100m over OM4 MMF
- o QDD-FR4-400G: up to 2km over single-mode fiber
- o Compatible with Cisco, Arista, Juniper, and Dell QSFP-DD ports
- o IEEE 802.3bs and 400GAUI-8/CEI-56G-VSR-PAM4 compliant

Local Suppliers in South Africa

- o Netshield South Africa: Offers a wide range of SFP, SFP+, QSFP, QSFP28, and QSFP-DD transceivers for commercial, extended, and industrial temperature ranges .
- o ComX Computers: Stocks Eaton Tripp Lite QSFP-DD modules with detailed specifications and local availability .
- o Cisco and FS distributors: Provide certified QSFP-DD modules compatible with major networking brands, suitable for enterprise and data center deployments .

Considerations for Deployment

- o Ensure fiber type and connector compatibility with existing network infrastructure.
- o Verify module compliance with IEEE standards (e.g., 400GBASE-SR8, 400GAUI-8) for interoperability.
- o Consider link distance requirements to select between multimode or single-mode QSFP-DD modules.
- o Utilize DDM features for monitoring and maintaining network reliability. QSFP-DD modules in South Africa provide a scalable, high-performance solution for modern network security and high-speed data applications, with multiple local suppliers offering both multimode and single-mode options for enterprise and data center environments.

Differentiator 400G QSFP-DD to 4x QSFP56 100G 15m active optical cable for use in select HPE products.

July 11, 2019 - QSFP-DD Hardware Specification for QSFP DOUBLE DENSITY 8X PLUGGABLE TRANSCEIVER -

Hier sollte eine Beschreibung angezeigt werden, diese Seite lässt dies jedoch nicht zu.

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Switchcom Distribution is a leading distributor of high-end wired and wireless networking equipment, VoIP, surveillance, and more.

HPE 400GbE QSFP-DD/QSFP112 5m Active Optical Cable provides low-latency, high-bandwidth connectivity for switches, servers

HPE Networking Comware 400G QSFP-DD to QSFP-DD 30m AOC provides long-distance 400G connectivity for large data center

Each type of QSFP cable is created according to specific networking requirements to offer flexibility and scalability

The QFX5240 Switch leverages Broadcom Tomahawk 5 silicon to provide 800GbE--twice the capacity of the previous generation.

HPE Aruba Networking 400G QSFP-DD to 4x QSFP56 100G 30m Active Optical Cable . SKU # R9B51A
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Enhance your network speed with the HPE Aruba Networking 400G PLR4 QSFP-DD Transceiver. Achieve 10km reach over SMF

It's built for the advanced networking requirements of large-scale clusters, and works with Apstra Data Center Director to assure daily

Shop high-quality networking equipment at CCF Security Systems. Enjoy fast, 3-5 day delivery across South Africa, and reach us

Product overview The Cisco 400GBASE Quad Small Form-Factor Pluggable Double Density (QSFP-DD) portfolio offers customers a

HPE 400GbE QSFP-DD VR4 50m Transceiver offers ultra-fast, reliable connectivity with optimized performance and scalability

Web: <https://www.millstraining.co.za>

