

# Swedish Active Optical Device QSFP-DD



## Overview

The STC-QSFPDD-DR4-500M optical transceiver provides high-speed 400Gbps Ethernet connectivity over parallel single-mode fiber (SMF) up to 500 meters. It uses four 100G PAM4 optical lanes operating at 1310nm and complies with IEEE 802.3bs 400GBASE-DR4 and QSFP-DD MSA standards. As a. The 400G QSFP-DD active optical cables are designed for use in 400 Gigabit Ethernet links over OM4 multimode fibres, and contain eight multi-mode fibres (MMF) optic transceivers per end, each operating at data rates of up to 53Gb/s. 3cd. Abstract: This specification defines: the electrical and optical connectors, electrical signals and power supplies, mechanical and thermal requirements of the pluggable QSFP Double Density (QSFP-DD) module, connector and cage system. TE. QSFP-DD (Quad Small Form-Factor Pluggable Double Density) represents a transformative advancement in optical transceiver technology, addressing the exponential growth in data center bandwidth requirements and the demands of modern high-performance computing environments.



## Article Content

OSFPFL-400G-QDDAOxxx Datasheet | FS

The 400G QSFP-DD to OSFP-RHS Active Optical Cable is a pluggable, parallel, fiber-optic QSFP-DD to OSFP-RHS AOC for Ethernet applications. It contains eight multi-mode fibers (MMF) optic

40G QSFP+ Active Optical Cable

Product Overview The 40G QSFP+ Active Optical Cable (AOC) is an integrated, hot-pluggable fiber-optic cable assembly with QSFP+ connectors at both ends. Designed for high-speed, low-latency

How to Achieve Interconnection Between OSFP and QSFP-DD Ports?

This article outlines key OSFP and QSFP-DD differences and offers four practical interconnection solutions to support scalable 400G/800G data center networks.

400G Optical Transceivers: What's the Difference Between OSFP and QSFP-DD?

Application Scenarios: Both QSFP-DD and OSFP are suitable for data center interconnect (DCI) scenarios, including direct attach copper cables (DAC), active optical cables (AOC), and fiber optic

Wholesale Optical Transceivers Module | 100G

Shop high-speed optical transceivers from Unitekfiber. We offer 100% compatible 40G, 100G, and 400G QSFP-DD modules for data centers. Expert technical

2m (7ft) 400G QSFP-DD Active Optical Cable

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

QSFP-DD Fibre Optic Transceiver Technology Overview

The QSFP-DD (Quad Small Form-factor Pluggable - Double Density) form-factor is used for 200G, 400G and 800G applications and is backward compatible with

QSFP-DD Optical Module Overview: What is the differ?

The QSFP-DD is the smallest 400G form factor optical module on the market today. It is also the optical module that offers the highest transmission

QSFP-DD Hardware

QSFP-DD supports up to 400 Gb/s in aggregate over an 8 x 50 Gb/s electrical interface. The cage and connector design provides backwards compatibility to QSFP28 modules which can be inserted into a

QSFP-DD Optical Transceivers - MapYourTech

QSFP-DD is an advanced hot-pluggable optical transceiver form factor that doubles the bandwidth density of traditional QSFP28 modules by

Cisco 400G Digital Coherent Optics QSFP-DD Optical

Cisco now offers a range of all new 400G Digital Coherent QSFP-DD transceivers. Cisco already offers a range of Digital Coherent CFP2 transceivers

Unlocking the Future of Connectivity: Understanding

Discover the future of connectivity with QSFP-DD transceivers. Learn how this compact, high-density interface enhances 200G/400G interconnect

200G QSFP-DD Active Optical Cable Datasheet | FS

The QDD200-AOxx is a 8-Channel, Pluggable, Parallel, Fiber-Optic QSFP-DD AOC for 2X100 Gigabit Ethernet, Infiniband FDR/EDR Applications. This transceiver is a high performance module for short

QSFP-DD Optical Transceivers Unlocking Faster

QSFP-DD Optical Transceivers deliver up to 800Gbps speeds, offering high bandwidth, energy efficiency, and compatibility for modern networks

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 traditional passive copper and emerging active copper (ACC/AEC) solutions,

400G QSFP-DD Active Optical Cable

400G QSFP-DD Active Optical Cable FEATURES Eight-channel full duplex active optical cable Up to 53.125 Gbps data rate per channel by PAM 4 modulation Low power consumption: < 8 W per cable

Unlocking the Potential of 200G QSFP-DD: A Deep Dive into Optical ...

This blog will discuss the world of optical transceivers, which mainly includes the 200G QSFP-DD module. Understanding how this advanced technology increases data center

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

The Ultimate Guide to QSFP Cables

Explore the ultimate guide to QSFP cables. Learn QSFP types, differences from SFP, installation methods, and benefits for high-speed data

Optical Transceiver: SFP vs SFP+ vs QSFP28 vs QSFP-DD

Compare SFP, SFP+, QSFP+, QSFP28, and QSFP-DD optical transceivers. Learn differences, speeds, and best use cases for data center networks.

Understanding SFP, SFP+, QSFP and Beyond:

In the world of networking, the ability to connect devices with high-speed data transmission is crucial. Whether you are setting up a local area network (LAN), a

400G-QSFP-DD-DR4-500M

The STC-QSFPDD-DR4-500M optical transceiver provides high-speed 400Gbps Ethernet connectivity over parallel single-mode fiber (SMF) up to 500 meters. It uses four 100G PAM4 optical lanes

QSFP-DD Optical Transceivers for High-Speed Connections

QSFP-DD ports incorporate a riding heatsink that can be sized independently of the optical module, added on top of the module, or placed between modules. This flexibility enables switch and routing

Understanding Backward Compatibility with QSFP-DD,

For optical modules, backward compatibility is essential. The upkeep and operation of the network infrastructure are directly related. Future data center

400G QSFP-DD Active Optical Cable Datasheet | FS

400G QSFP-DD to 400G QSFP-DD Active Optical Cable enables low-power, high-reliability and high-speed interconnections over very thin copper cables without using any optical components.

Cisco QSFP-DD Pluggable Open Line System (QDD

Learn more about the Cisco QSFP-DD Open Line System (QDD OLS), a pluggable optical amplifier module that provides a simple yet powerful open line

The Ultimate Guide to QSFP Cable: Everything You

A: Active optical cables use electronic components to amplify signals over long distances by utilizing optical fibers. On the other hand, passive copper

QSFP-DD TRANSCEIVERS for 400G and 800G | Smartoptics

QSFP-DD is the most widely adopted form factor for 400G, with great potential for 800G. While QSFP-DD prioritizes backward compatibility, OSFP's larger surface area enables higher thermal efficiency

Cisco QDD-400-AOC1M 400G QSFP-DD Active Optical Cable, 1 m | Fiber Optic

Use this 1 m Cisco QSFP-DD active optical cable when 400G devices sit close together and you want the cleanest possible interconnect. The short length is ideal for adjacent equipment in the same rack

## Contact Us

For more information, pricing, or custom solutions, please contact us:

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