

UAE Joins Active Optical Device QSFP-DD



AI Overview

QSFP-DD (Quad Small Form-Factor Pluggable Double Density) modules and active optical cables are widely available in the UAE, supporting 400G and 800G high-speed networking for data centers, AI clusters, and enterprise networks. Overview of QSFP-DD QSFP-DD is an advanced optical transceiver standard that doubles the electrical interfaces of traditional QSFP modules, enabling 400G Ethernet speeds and scalable support for 800G networks. It is increasingly used in AI compute clusters, GPU fabrics, NVLink/InfiniBand networks, and ultra-low latency links in the UAE. QSFP-DD supports both short-range multimode for data center interconnects and coherent DWDM for metro and regional transport, offering flexible deployment options. Active Optical Cables (AOCs) Active optical cables integrate QSFP-DD transceivers with fiber optics in a single assembly, providing longer reach, improved flexibility, and higher performance compared to passive copper or active copper solutions. They are ideal for high-performance computing, hyperscale data centers, and enterprise networking, ensuring reliable high-speed connectivity over distances that exceed traditional copper limits. Use Cases in the UAE Hyperscale and enterprise fabric networks for AI, cloud, and HPC workloads. Data center interconnects (DCI) using 400ZR and 800ZR coherent optics for metro and regional networks. Flexible network scaling with 2x100G connections over single-mode fiber. Secure Layer 1 encryption with AES-256 for sensitive enterprise or government networks. Suppliers and Availability Several UAE-based suppliers provide QSFP-DD modules and AOCs with same-day delivery across Dubai, Abu Dhabi, Sharjah, RAK, Fujairah, and Al Ain. Key suppliers include: SFPS.AE: Offers QSFP, QSFP28, and QSFP-DD modules for 40G–400G networks, tested for TX/RX power, DDM verification, and coding accuracy. GBICS: Provides Cisco-compatible QSFP-DD modules, fiber patch cords, MPO/MTP cables, and rugged iTemp optics with lifetime warranty. Smartoptics: Supplies 400G and 800G...

Article Content

400G QSFP-DD Active Optical Cable Datasheet | FS

The 400G QSFP-DD SR8 AOC is designed to transmit and receive serial optical data links up to 53.125 Gb/s data rate (per channel) by PAM4 modulation format over multi-mode fiber.

The Ultimate Guide to QSFP Cable: Everything You Need to Know

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

A Deep Dive into 400G QSFP-DD AOC: Principles, Advantages,

It combines the advantages of optical fiber and integrated optical-electronic modules for high-speed data transmission between devices. Each QSFP-DD AOC port provides full-duplex

HPE 400GbE QSFP-DD to 2xQSFP56 5m Active Optical Cable

HPE 400GbE QSFP-DD to 2xQSFP56 5m Active Optical Cable ensures high-bandwidth performance and reliable data delivery for next-gen data center deployments.

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

Cisco 400G QSFP-DD High-Power (Bright) Optical module is mechanically compliant to the QSFP-DD Type 2A Module Specification. The QSFP-DD module contains a PCB with a 76

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

Cisco QSFP-DD Pluggable Open Line System (QDD OLS) Data Sheet

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 system solution in a pluggable form

Unlocking the Future of Connectivity: Understanding QSFP-DD ...

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

SFP, QSFP, QSFP-DD, OSFP ACTIVE OPTICAL CABLE ASSEMBLIES

TE Connectivity's (TE) active optical cable assembly portfolio provides improved cable flexibility and longer reach, as compared to both traditional passive copper solutions and emerging active copper

Quadwire® QSFP-DD Active Optical Cables | Coherent

Multichannel AOCs combining our vertically integrated VCSEL array technology with standard QSFP and SFP+ connectors. They feature low power consumption, low

400G QSFP-DD Active Optical Cable Datasheet | FS

Description 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.

United Arab Emirates (UAE) Active Optical Cable Market ...

The growth of the UAE active optical cable market is primarily driven by the country's rapid digital transformation and increasing demand for high-speed data transmission.

United Arab Emirates (UAE) 800G QSFP-DD Optical Module

The UAE 800G QSFP-DD optical module market is experiencing a strategic shift driven by AI-enabled decision intelligence that transcends traditional automation.

United Arab Emirates (UAE) 800G QSFP-DD Optical Module

The United Arab Emirates (UAE) 800G QSFP-DD Optical Module Market is expected to witness sustained global growth driven by innovation, digitization, and emerging economy participation.

QSFP-DD Connector System

QSFP-DD Interconnect System enables faceplate density equal to the current 2x1 QSFP form factor, but with 8-lane ports. In other words, a total of 256 differential pairs with 32 ports delivers double-lane

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

Active Optical Cables (AOC): Incorporate real transceivers with fiber optics, providing longer-distance connectivity while remaining lightweight and flexible. These QSFP-DD cable solutions ensure

QSFP-DD Optical Transceivers Unlocking Faster Connections

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

HPE 400GbE QSFP-DD to QSFP-DD 15m Active Optical Cable

HPE 400GbE QSFP-DD to QSFP-DD 15m Active Optical Cable [Show more](#) [Show less](#)
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[All About QSFP Cables, Connectors, and More](#)

QSFP Optical Transceivers Optical transceivers are small, powerful devices that connect a switch or other networking device to a copper or fiber optic cable and are commonly used to add

[HPE 400GbE QSFP-DD/OSFP 5m Active Optical Cable](#)

HPE 400GbE QSFP-DD/OSFP 5m Active Optical Cable ensures ultra-fast data transmission with efficiency, flexibility, and reliability for demanding enterprise workloads.

[The Ultimate Reference Table for SFP & QSFP Optical Transceiver ...](#)

The definitive guide to SFP, QSFP, and QSFP-DD standards for 2025. Compare 400G/800G optics, understand PAM4 complexity, and master QSFP-DD vs OSFP deployment

[40G QSFP: The Core of Optical Network Interconnection](#)

Versatile Connectivity: Supports copper (DAC), active optical (AOC), and optical transceivers These features collectively improve network scalability, efficiency, and performance.

[Cisco 400G Digital Coherent Optics QSFP-DD Optical Modules Data](#)

Thanks to the miniaturization of the technology with a 7-nm manufacturing procedure and innovation in silicon photonic technology, it is now possible to squeeze a 400G-capable Digital

[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 port density as compared to 100G QSFP28 AOC. These AOC assemblies

[Cisco QSFP-DD800 Transceiver Modules Data Sheet](#)

For more information and references on QSFP-DD cable guides, please click on the following link: [Cisco Transceiver Modules - Brochures - Cisco](#) [Cisco QSFP-DD800 transceiver](#)

Contact Us

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