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UAE Telecom-Grade Router QSFP-DD



Overview

Cisco QSFP-DD Pluggable Open Line System (QDD Learn more about the Cisco QSFP-DD Open Line System (QDD UAE Passive Optical Network QSFP If you are looking.

Key Takeaways

QSFP-DD modules are essential for high-speed 400G networking in UAE telecom and enterprise environments, supporting AI, cloud, and hyperscale data center applications.Overview of QSFP-DD

QSFP-DD (Quad Small Form-Factor Pluggable Double Density) modules are high-bandwidth optical transceivers designed for speeds from 40G up to 400G. They are widely used in telecom-grade routers, switches, and data center fabrics to enable ultra-low latency, high-density connectivity. QSFP-DD supports backward compatibility with QSFP28 modules, allowing flexible deployment in existing network infrastructures while providing future-proof scalability for AI compute clusters, GPU fabrics, and NVLink/InfiniBand interconnects in the UAE .

Key Features and Benefits
• High-Speed Connectivity: Supports 400G Ethernet with 8 lanes of 50Gbps signals per fiber, or 4x100G breakout options for flexible network design .

• Compatibility: Works with Cisco, Arista, Juniper, Dell EMC, HPE, Huawei, Fortinet, and NVIDIA/Mellanox equipment .

• Optical Interfaces: Available for multimode (OM3/OM4/OM5) and single-mode fibers, with MPO/MTP or LC connectors depending on reach requirements .

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• Applications: Ideal for hyperscale data centers, AI training clusters, cloud workloads, enterprise core networks, and national digital infrastructure projects .

• Local Availability: UAE suppliers like SFPS.AE and GBICS offer same-day delivery in Dubai, Abu Dhabi, Sharjah, RAK, Fujairah, and Al Ain, often at up to 70% lower cost than OEM modules while maintaining performance .

Cisco QSFP-DD Specifics

Cisco's QSFP-DD portfolio includes 400GBASE-SR4.2, VR4, DR4, and breakout modules. Key specifications include:

• Bit Rate: 53.125 GBaud PAM-4 per lane (106.25 Gbps/lane)

• Reach: Up to 100m over OM4 multimode fiber, 30–50m over OM3, and up to 10 km for single-mode LR4 modules

• Standards Compliance: IEEE 802.3bs, 400GBASE-SR4, 400GAUI-8, 200GAUI-2, and 100GAUI-1

• Pluggable Open Line System (OLS): Cisco QSFP-DD OLS modules can be directly hosted on routers, enabling coherent DWDM interfaces for distances up to 40 km with Routed Optical Networking (RON) architecture .

Choosing QSFP-DD in the UAE

When selecting QSFP-DD modules for telecom-grade routers in the UAE:

• Determine Network Speed Requirements: 100G, 200G, or 400G depending on AI, cloud, or enterprise workloads.

• Check Fiber Type and Connector Compatibility: OM3/OM4/OM5 for multimode, single-mode for long-distance links, MPO or LC connectors.

• Verify Vendor Interoperability: Ensure modules are compatible with your existing switches and routers.

• Consider Local Suppliers: SFPS.AE and GBICS provide tested, certified modules with fast delivery and lifetime warranty, reducing lead times and import costs . QSFP-DD modules are critical for UAE's next-generation digital infrastructure, enabling high-density, low-latency, and scalable networking for AI, cloud, and hyperscale data centers.

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Cisco QDD-4X100G-LR-S 400G QSFP-DD in Dubai, UAE

General Description The Cisco SFP-OC48-LR2 is a high-power long-reach optical Transceivers designed for SONET/SDH OC

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This article will introduce the next generation optical module in detail, QSFP-DD, also

100G Gigabit QSFP28 Ethernet Transceiver,100GBASE-SR4 Multi

The TRANSUTON for Juniper JNP-QSFP-100G-SR4 QSFP28 Optical Fiber Transceiver Module is designed for use in 100GBASE

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Cisco 400G QSFP-DD Ultra Long Haul Coherent Optics Module Data

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Learn what a QSFP module is, how QSFP+, QSFP28, QSFP56, and QSFP-DD differ, and how to choose the right

Comprehensive Guide to QSFP – MapYourTech

The Quad Small Form-Factor Pluggable (QSFP) family represents a critical evolution in high-speed optical transceiver

Cisco QSFP-DD800 Transceiver Modules Data Sheet

The Cisco QSFP-DD800 modules introduce 8x100G and 2x400GGBASE Quad Small Form-Factor Pluggable Double

QSFP-DD Transceivers: 400G/800G Specs, Types & Buying Guide

Learn what QSFP-DD is, how 400G and 800G QSFP-DD transceivers work, module types, compatibility, and how to

Cisco 400G QSFP-DD Data Sheet

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QSFP-DD Guide

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400G QSFP-DD To 4x 100G SFP-DD DAC Transceiver

400G QSFP-DD To 4x 100G SFP-DD DAC Transceiver Features QSFP-DD Module compliant to QSFP

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