

Preview

The QSFP-DD Series offers up to 400Gbps transmission speeds and features 1-by cages. 4 Tbps aggregate bandwidth in a single switch slot. QSFP-DD is a new module and cage/connector system similar to current QSFP, but with an additional row of contacts providing for an eight lane electrical interface. 8mm pitch and a dual-mating interface. Plugs have a cage counterpart that is in the network switch front panels and on top of network adapters. The metal plugs have many code name extensions based on the single-channel; small-form-factor plug. QSFP-DD (quad small form-factor pluggable double density) doubles the capacity of QSFP interconnects with an eight-lane electrical interface capable of 28 Gbps NRZ, 56 Gbps PAM4, and 112 Gbps PAM4 to achieve up to 800 Gbps per port.

QSFP-DD can enable up to 14.4 Tbps aggregate bandwidth in a single switch slot. QSFP-DD electrical interfaces will employ eight lanes that operate up to 25 Gbps NRZ modulation or 50 Gbps PAM4

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

Complete QSFP-DD power and thermal guide with module power data, rack calculations, AI cluster planning, and cooling strategies for 400G and 800G deployments.

Advanced Liquid Cooling Solution - Purpose-built thermal solutions for any cooling budget Professionally designed, built, & tested to meet the most demanding server/storage/data center

This product include extender cage, cable, QSFP-DD housing three parts, the cable length can be customized no more than 0.5m for extension, that can avoid the

Abstract High performance network environments need to cool pluggable optical modules efficiently. Higher power (25 Watt) modules for QSFP-DD800 systems must dissipate this heat effectively to

Each QSFP-DD port provides 76 electrical contacts, which can support next-generation switching chips for higher density applications. The

This article will introduce the next generation optical module in detail, QSFP-DD, also known as quad small factor pluggable, and this article will also

QSFP-DD ist ein 400GbE-Modul, das die bisher größte Port-Bandbreiten Dichte in der Branche bieten kann. Es kann 36 400GbE-Ports unterstützen und bietet

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

The QSFP-DD family supports legacy QSFP channels on the front interface and four additional channels on the rear interface. This interconnect

Abstract Power dissipation of quad small form-factor pluggable-double density (QSFP-DD) interconnect system is increasing almost linearly with respect to the data speed. Fan cooling

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

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

Thermal solutions for fiber optic transceiver modules (OSFP, QSFP-DD) Fiber optical transceiver is one of the key components of the fiber optic communication

A new standalone product, the Immersion Liquid Cooling Extender, is designed for immersion-cooled data centers. It extends the electrical interface of the server to

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