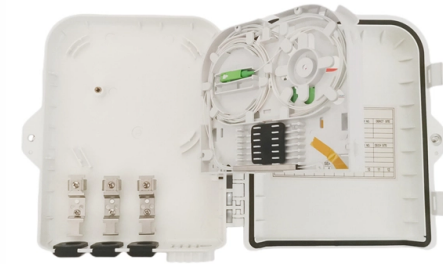


Tunisian Avionics High-Speed Optoelectronic Connection QSFP-DD



Overview

The QSFP-DD interconnect system is comprised of a 76-position, 0. Each port supports up to 400 Gbps in aggregate over an 8 x 50 Gbps electrical interface.

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. This document provides a common specification for systems. 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 connector portfolio's backwards compatibility allows. Amphenol's QSFP-DD Linear Pluggable Optical (LPO) Transceiver delivers low-latency, high-bandwidth PCIe ® Gen 5. 0 over optical link, enabling scalable server disaggregation and efficient rack-to-rack interconnects ideal for AI/ML and rack-scale data center expansion.



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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

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QSFP-DD Hardware

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QSFP-DD Hardware

All the QSFP-DD module and host pins including high speed signal pins shall withstand 1000 V electrostatic discharge based on Human Body Model per ANSI/ESDA/JEDEC JS-001.

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

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Applications of QSFP Cables The need for high-speed data transfer makes QSFP cables popular in many areas. The main places where they are

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Systems designed with QSFP-DD ports are backwards compatible to support existing QSFP+, QSFP28, and QSFP56 modules. This provides flexibility for network designs and migrations to next-generation

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

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What Is the QSFP-DD Standard? QSFP-DD (Quad Small Form Factor Pluggable Double Density) is an evolution of the QSFP family, extending its lane capacity from 4 to 8 high-speed

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QSFP-DD Linear Pluggable Optics (LPO) | High Speed

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112G High Speed Solutions

QSFP-DD INTERCONNECT SYSTEMS - 56G, EXTREMEPORT™ 112G & EXTREMEPORT™ 224G Amphenol's QSFP-DD high-speed connector

Contact Us

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