

Hungarian SFP Optical Module QSFP-DD



AI Overview

QSFP-DD optical modules certified for the Hungarian and EU market provide high-speed, reliable connectivity for 400G and beyond, supporting both Ethernet and OTN applications. Overview QSFP-DD (Quad Small Form Factor Pluggable Double Density) modules are high-density, pluggable optical transceivers designed for data rates up to 400G and higher. They are widely used in data centers, telecom networks, and enterprise backbone infrastructures. In Hungary, these modules are increasingly deployed by telecom operators like Magyar Telekom, Yettel, and Vodafone Hungary to support 5G rollouts and high-capacity backbone networks. They are also critical for industrial campuses and research networks such as HBONE+, enabling low-latency, high-throughput connections. Technical Specifications Form Factor: QSFP-DD Type 2A compliant, with 76-contact card-edge interface. Data Rates: Typically 400G, with some modules supporting 200G, 800G, or multi-rate OTN/Ethernet variants. Optical Interface: Duplex LC connectors, operating in the C-band (1550 nm) or L-band (1595 nm) for long-haul applications. Signaling: Coherent DP-mQAM for high spectral efficiency and low error rates. Power and Efficiency: Designed for low power consumption, meeting EU energy efficiency standards, with advanced thermal management for stable operation. Compatibility: Supports Ethernet, OTN, and multi-vendor interoperability, often MSA-compliant and TAA-certified. Certifications and Compliance Hungarian-certified QSFP-DD modules typically carry CE, RoHS, and REACH certifications, ensuring compliance with European Union regulations. They also meet EU WEEE standards for sustainable electronics disposal, which is essential for procurement by public institutions and enterprises in Hungary. Leading Suppliers Shenzhen REALSEA Optical Technology: Offers 200G, 400G, and 800G QSFP-DD modules, DAC/AOC cables, and immersion cooling solutions. Their products are CE, RoHS, and REACH certified, with ISO 9001 quality management and EU energy...

Article Content

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 Pluggable Optical Modules

QSFP-DD (Quad Small Form-Factor Pluggable-Double Density) optical module: It is a double-density four-channel small pluggable high-speed optical module. QSFP-DD is currently the preferred

Bulk Ethernet Cables: Cat5e, Cat6, Cat7 Bulk Cables

FS 40G QSFP+ optical transceiver module solutions offer a full range of QSFP+ modules from 150m to 80km reach, and used for high-density switching, routing

400GbE QSFP-DD Transceiver Modules | Optical Transceivers

FS 400G QSFP-DD module solutions featuring high-performance, high-bandwidth, and cost-effectiveness, are ideal for 400GbE and data centres.

QSFP DD Guide: High-Speed QSFP DD Optical Modules

In this comprehensive guide, we will explore how QSFP DD works, why it has become a preferred optical module standard, and how it is deployed in

QSFP-DD Connector System

QSFP-DD Interconnect System's 8-lane electrical interface transmits 28G NRZ, 56G PAM-4 and 112G PAM-4, up to 200, 400 or 800 Gbps aggregate. Backwards

SFP vs SFP+ vs SFP28 vs QSFP+ vs QSFP28 vs

The diversity of optical transceivers is reflected in various connector types and form factors, including SFP, SFP+, SFP28, QSFP+, QSFP28, QSFP

QSFP-DD Fibre Optic Transceiver Technology

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

Cisco 400G QSFP-DD Cable and Transceiver Modules

The Cisco® family of QSFP-DD modules provide the industry's highest bandwidth density while leveraging the backward compatibility to lower

Cisco QSFP-DD and OSFP 800G ZR/ZR+ Coherent

They expand Cisco routed optical networking applications to include 800G links and are compatible with Cisco and third-party 800G-capable routers,

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

Comprehensive Guide to QSFP-DD, QSFP28, QSFP56,

As high-speed networks continue to evolve, optical transceivers like QSFP-DD, QSFP28, QSFP56, SFP56, and SFP28 have become the core components

Comprehensive Guide to QSFP-DD, QSFP28, QSFP56,

Complete Guide to QSFP-DD, QSFP28, QSFP56, SFP56, and SFP28 Optical Modules As high-speed networks continue to evolve, optical transceivers like

QSFP DD Guide: High-Speed QSFP DD Optical Modules

Additionally, this form factor supports backward compatibility with earlier QSFP modules, which greatly simplifies network upgrades. In this

Differences Between QSFP-DD and QSFP+ / QSFP28 /

As a leading solution in high-speed applications, QSFP-DD transceivers are often compared with other modules such as QSFP56,

400G OSFP/QSFP-DD/QSFP112 Module Introduction

The explosive growth of global data volume has placed higher demands on the bandwidth and performance of data center networks, making

The Ultimate Guide to QSFP Cables: What You.

In this ultimate guide, I'll break down exactly what QSFP cables are, how they compare to SFP and SFP+, how to choose the right type, installation

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

What is QSFP-DD Transceiver: A Beginner Guide

Double density means that the number of high-speed electrical interfaces supported by the QSFP-DD transceiver module is double that of the

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

Specification – QSFP-DD

July 11, 2019 – QSFP-DD Hardware Specification for QSFP DOUBLE DENSITY 8X PLUGGABLE TRANSCEIVER – Rev 5.0 May 8, 2019 – Common Management Interface

400G Modules Compared: QSFP-DD, OSFP & QSFP112

Unsure which 400G module fits your data center? Compare QSFP-DD, OSFP, and QSFP112 with expert insights for top performance and scalability.

Connectivity in the Era of Big Data: Adapting with

This article discusses the transition of server connection speeds in data centers from 10GE and 25GE to 100GE and beyond. It introduces QSFP28,

800G Optical Transceiver Overview: QSFP-DD and

Optical module is the optoelectronic device that realizes photoelectric and photoelectric conversion in optical communication, and is the

Comprehensive Guide to 400G/800G QSFP-DD Optical

Applications of 400G/800G QSFP-DD Optical Modules The 400G/800G QSFP-DD optical modules leverage a double-density design to

Contact Us

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