

Low-power optical modules QSFP-DD from manufacturers in five Central Asian countries



AI Overview

Low-power QSFP optical modules are energy-efficient transceivers widely used in data centers, with global suppliers like Wolon, Topstar, Cisco, and Lumentum, though local Central Asian manufacturers are limited.

Overview of Low-Power QSFP Modules

Low-power QSFP modules are designed to reduce per-port energy consumption while maintaining full line rates and protocol compatibility. Typical power savings range from 20–35% compared to standard modules, achieved through optimized DSP/laser drivers, power gating, and component selection. These modules are suitable for 40G, 100G, 200G, and 400G transmission rates, and emerging 800G QSFP modules are being deployed in hyperscale data centers. They are compatible with major networking ecosystems, including Cisco, Juniper, and Arista.

Key Global Manufacturers

Wolon (Wuhan Wolon Communications): Offers low-power QSFP modules with energy-aware designs and broad interoperability.

Topstar Technology: Provides QSFP, QSFP28, and CFP series modules with OEM/ODM customization and global distribution.

Cisco Systems, Lumentum, Finisar, Mellanox: Leading suppliers of high-speed QSFP modules, including 400G and QSFP-DD variants.

HiSilicon, Hisense, Accelink Technologies: Other notable manufacturers with a focus on Asia-Pacific markets.

Considerations for Central Asian Procurement

While specific manufacturers in Kazakhstan, Uzbekistan, Kyrgyzstan, Tajikistan, and Turkmenistan are not widely documented, potential approaches include:

Regional Distributors: Many global suppliers partner with local distributors in Central Asia for sales and support.

Checking Cisco, Lumentum, or Wolon authorized distributors in these countries is re...

Article Content

Optical Transceiver Market Size, Share, Trends

For instance, In 2021, Marvell and OE Solutions collaborated to offer the 100G coherent QSFP-DD optical transceiver module for 5G backhaul and

Networking Solutions for the Era of AI | NVIDIA

Networking Purpose-Built for the Era of AI Factories AI factories now span tens of thousands of GPUs—and soon, millions—operating as a single distributed

QSFP-DD Optical Module Wiki

QSFP-DD (Quad Small Form Factor Pluggable-Double Density) is a new modular connector system that utilizes a dual-density, four-channel, small, hot-swappable optical module

Global QSFP-DD Pluggable Optical Transceiver Modules Market

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. It is being developed by the QSFP-DD

Global QSFP-DD Packaged Optical Module Market 2024 by

Global QSFP-DD Packaged Optical Module Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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 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

400G QSFP optical module for five Central Asian countries

The high performance and low power of the 400G QSFP-DD ULH module make it an optimal choice to extend Routed Optical Networking use cases to regional and ultra-long-haul ...

Global QSFP-DD Pluggable Optical Transceiver Modules Market

This report focuses on the QSFP-DD Pluggable Optical Transceiver Modules sales, revenue, market share and industry ranking of main manufacturers, data from 2021 to 2026.

QSFP DD Guide: High-Speed QSFP DD Optical Modules

Learn how QSFP DD enables high-speed 400G networking with higher density, compatibility, and performance for modern data centers.

400G QSFP optical module for five Central Asian countries

We provide custom laser diodes, VCSEL arrays, DFB lasers, drivers, CDR, modulators, TIAs, co-packaged optics, silicon photonics, LPO, transceivers, and AOCs. From prototype to mass

QSFP-DD Optical Transceivers – MapYourTech

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

Global QSFP-DD Packaged Optical Module Market Research Report

QSFP-DD (Quad Small Form Factor Pluggable Double Density) is a small pluggable optical module that supports double-density interfaces and is designed for 400G Ethernet applications.

400G QSFP-DD Optical Module Market Research Report 2034

The 400G QSFP-DD optical module market is characterized by intense competition among specialized optical component vendors, integrated network equipment manufacturers, and semiconductor suppliers.

Differences Between QSFP-DD and QSFP, QSFP28, QSFP56,

Explore the technical differences, performance characteristics, and practical deployment strategies of QSFP-DD compared to QSFP, QSFP28, QSFP56, QSFP112, OSFP, and CFP2

400G Optical Module Form Factors: QSFP-DD vs. OSFP vs. QSFP112

A full comparison of 400G QSFP-DD, OSFP, and QSFP112 optical module form factors. Learn their differences in performance, power, compatibility, and the best deployment scenarios.

QSFP-DD Module Market Report | In-Depth Market Analysis 2035

Manufacturers of QSFP-DD modules are innovating to produce devices that consume less power while delivering faster data rates. The rising focus on sustainability and green technology has further

Cisco 400G Digital Coherent Optics QSFP-DD Optical

Cisco now offers a range of all new 400G Digital Coherent QSFP-DD transceivers. Cisco already offers a range of Digital Coherent CFP2 transceivers

Global QSFP-DD Packaged Optical Module Market 2026 by

QSFP-DD (Quad Small Form Factor Pluggable Double Density) is a small pluggable optical module that supports double-density interfaces and is designed for 400G Ethernet applications. The QSFP-DD

QSFP-DD Optical Transceivers for High-Speed

Cisco's comprehensive portfolio of QSFP-DD modules support 400G and 800G data rates across copper, multimode fiber, and single-mode fiber, and

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

400G OSFP/QSFP-DD/QSFP112 Module Introduction

This article explores the technical characteristics, product lineup, and use cases of 400G OSFP/QSFP-DD/QSFP112 modules to choose the most

QSFP-DD Optical Module Overview: What is the differ?

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 Pluggable Optical Transceiver Modules Market's Drivers

The QSFP-DD pluggable optical transceiver module market is projected for substantial expansion, fueled by escalating demand for enhanced bandwidth and accelerated data transmission

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