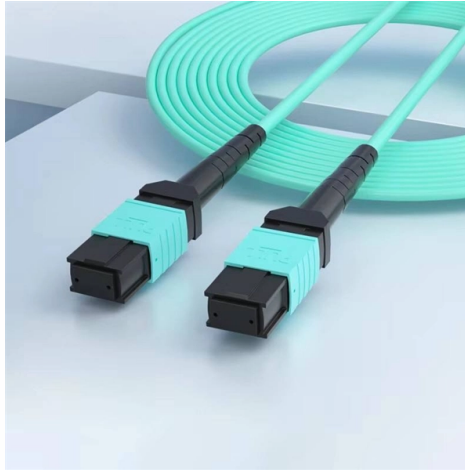


Enterprise-grade optical router with 40G RoHS



AI Overview

Enterprise-grade 40G optical routers are available from vendors like Cisco and Arista, supporting long-reach 40GBASE-ER4 or short-reach 40GBASE-SR4 QSFP+ modules, with RoHS-compliant hardware options.

Key Router Platforms

Cisco Enterprise Routers: Cisco offers a range of enterprise routers with 40G capabilities, including modular ISR and ASR series routers. These routers provide secure, flexible connectivity, SD-WAN readiness, and cloud integration. They support high-speed optical modules such as 40GBASE-ER4 for long-distance single-mode fiber links and are designed for enterprise backbone and data center interconnects.

Arista Networks: Arista's 7800R series and other high-density platforms deliver 40G, 100G, and 400G connectivity with programmable EOS software. The 7800R4 series, for example, supports up to 460 Tbps system throughput and is ideal for large-scale data centers, AI/ML clusters, and universal spine deployments. These routers are compatible with 40G QSFP+ optical modules and provide robust routing, MACsec encryption, and high reliability.

Peplink Balance 5000 EC: While primarily a multi-WAN enterprise router, it supports 40G/100G QSFP modules for high-speed backbone connectivity, multi-cloud networking, and large-scale aggregation. It also offers hardware redundancy and edge virtualization for running security and analytics applications directly on the router.

Optical Transceivers

40GBASE-ER4: Designed for long-reach 40G Ethernet over single-mode fiber, supporting distances up to ~40 km using WDM technology. ER4 modules combine four 10G channels into a single duplex fiber link, making them suitable for metro and inter-data-center connections.

40GBASE-SR4: Short-reach QSFP+ modules, such as the Palo Alto PAN-T-Q-40GBASE-SR4, support up to 100 meters over OM3 multimode fiber. These are ideal for intra-data-center connections...

Article Content

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40G QSFP+ LR4 Transceiver

40G QSFP+ LR4 Transceiver Overview 40Gbps hot pluggable transceiver in QSFP+ form factor Optical connectivity based on two SMF LC connectors Optical engine combining uncooled 4 X 10Gbps

Huawei QSFP-40G-iSR4 40G QSFP+ SR4 MMF

Huawei QSFP-40G-iSR4 Overview The Huawei QSFP-40G-iSR4 is a high-density QSFP+ optical transceiver designed for enterprise and data center aggregation.

MikroTik · CRS326-24S+2Q+RM

Overall it has two 40 Gbps QSFP+ ports and twenty four 10 Gbps SFP+ ports, which provides total nonblocking throughput of 320 Gbps and switching capacity of 640

Cisco QSFP-40G-CSR-S= 40GBASE-CSR QSFP Optical Transceiver

Cisco QSFP-40G-CSR-S= 40GBASE-CSR QSFP module delivers 40Gbps CSR reach over multimode fiber with LC connector, ideal for enterprise and data center upgrades. Global Shipping & Tech Support

Cisco Enterprise Router Selector

Explore our router selector to swiftly identify and migrate to the Cisco enterprise router that best fits your needs. These internet edge routers offer embedded

Cisco 40GBASE QSFP Modules Data Sheet

It enables high-bandwidth 40G optical links over 12-fiber parallel fiber terminated with MPO/MTP multifiber female connectors. It can also be used in a 4x10G mode for interoperability with

The Ultimate Guide to ZTE SFP Module Distance and Wavelength

Introduction: The Critical Role of Optical Transceivers in Modern Networks In the architecture of high-performance enterprise and carrier-grade networks, the optical transceiver is the indispensable

Cisco 8200 Series Routers Data Sheet

Cisco 8000 overview The Cisco® 8000 Series Routers combine the revolutionary Cisco Silicon One™ processor, Cisco IOS® XR software, and a set of clean-sheet chassis to deliver a breakthrough in

Cisco QSFP-40G-SR4 40GBASE-SR4 QSFP Module, MMF 100m, Price

Cisco QSFP-40G-SR4 Overview The Cisco QSFP-40G-SR4 is a high-performance QSFP transceiver module designed for enterprise-level applications. This module supports 40 Gigabit Ethernet

Arista 7280R3 Series MACsec Encryption Capable Data ...

7280R3 encryption systems can be deployed in a wide range of open networking solutions including secure Data Center Interconnect (DCI), large scale layer 2 and layer 3 cloud designs, overlay

Enterprise Routers | Huawei Enterprise

Designed for the cloud era, this router offers easy deployment, simplified O& M, high performance, and strong reliability, helping enterprises quickly access various networks.

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Accelerating enterprise digital transformation with high-capacity, reliable, and energy-efficient routers that are easy to maintain. Learn more.

7280R3A Modular Data Center Switch Router

The Arista 7280R3A Series FlexRoute engine provides Internet scale routing to support deployment as an Internet border/peering router, enterprise CDN backbone or data center interconnect (DCI). Arista

7280R3A Series Data Center Switch Router

Designed for deployment in a wide range of open networking solutions including large scale layer 2 and layer 3 cloud designs, enterprise data centers and service provider networks, the 7280R3A Series

Cisco N9K-C9372TX-E Nexus 9300 48x1/10G-T 6x40G QSFP+ Switch

Access the detailed N9K-C9372TX-E, Cisco Nexus 9300 Switch, 48x10G-T/6x40G QSFP+ datasheet and ensure you're getting the best deal with our reliable delivery service.

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A guide to LC fiber optics. Learn LC connector geometry, UPC/APC polish types, ULL patch cords, MPO-LC transitions, high-density cassettes, duplex optics

FS | AI Infrastructure, Data Center, Enterprise Networking and

As a worldwide provider of high-performance network products and solutions, FS offers switches, optical transceivers, cabling systems, and management software for AI clusters, data centers, and

AOI QSFP+ Optical Transceiver 40G LR4 CWDM PIN

Ideal for core routing, spine-leaf architectures, cloud platforms, and inter-rack high-speed links, this AOI transceiver delivers enterprise-grade reliability for mission

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