

US Certified Enterprise-Grade Optical Router QSFP28



AI Overview

QSFP28 modules enable enterprise-grade 100G optical routing with coherent and non-coherent options, supporting long-reach DWDM, low-latency, and high-capacity data center and campus networks. Overview of QSFP28 Technology QSFP28 (Quad Small Form-factor Pluggable 28) is a 100G-capable optical transceiver standard. Each module contains four lanes running at 25 Gbps NRZ, yielding 100 Gbps payload capacity, with a physical ceiling of 28 Gbps per lane to accommodate error correction and clocking overhead. QSFP28 ports can also be broken out into four 25G connections, providing flexibility for spine-leaf or aggregation network designs. The electrical interface uses CAUI-4, which defines communication between the switch ASIC and the module, while the optical interface can support CWDM4, LR4, ER4, SR4, or PSM4 depending on the variant and fiber type (single-mode or multimode).

.Enterprise-Grade Coherent QSFP28 Modules Cisco QSFP28 100G ZR modules extend 100GbE coherent links up to 80 km over dark fiber and 300 km over amplified DWDM. They leverage QPSK modulation and ITU-T standard-compliant staircase FEC, tunable across the C-band, and support Precision Timing Protocol (PTP) Class C for low-latency and precise frequency applications. These modules are compatible with widely deployed QSFP28 ports and support interoperability with Cisco and third-party routers. Ciena 100ZR QSFP28 modules use coherent technology to deliver 100 Gb/s over longer distances while supporting dense wavelength division multiplexing (DWDM). They can scale to 9.6 Tb/s on a single fiber pair without replacing existing QSFP28 router ports, making them ideal for enterprise, hyperscaler, and data center interconnects. These modules also support quantum-safe encryption and NIST-certified post-quantum cryptography algorithms for secure enterprise deployments...

Article Content

Enterprise Routers | Huawei Enterprise

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

FS | AI Infrastructure, Data Center, Enterprise

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

Huawei Enterprise

Hier sollte eine Beschreibung angezeigt werden, diese Seite lässt dies jedoch nicht zu.

100GBASE QSFP-100G Modules Data Sheet

The Cisco QSFP28 to SFP28 Adapter (QSA) Module offers 25, 10 and 1 Gigabit Ethernet Connectivity for QSFP 100G ports. The adapter gives

Cisco Compatible Optical Modules Catalog

of Small Form-Factor Pluggable (SFP), SFP+, SFP28, QSFP+, and QSFP28 transceivers. Designed to deliver seamless interoperability within Cisco enterprise-grade optical Enterprise, Data Center, and Service

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Cisco ONS-QSFP28-LR4 100Gbps LR QSFP28 Optical Transceiver

The Cisco ONS-QSFP28-LR4 100Gbps Multi-rate transceiver is designed for long-reach networking solutions. It delivers high performance, reliability, and scalability for data centers and enterprise

MikroTik · CRS520-4XS-16XQ-RM

With 16x 100 Gigabit QSFP28 ports, 4x 25 Gigabit SFP28 ports, and an extra pair of 10 Gigabit Ethernet ports, this switch can bring a lot of value to complicated

OPTIC-WAY

QSFP28 Standard Form Factor :Industry-standard QSFP28 pluggable footprint, optimized for ADVA optical transport and telecom equipment. ADVA Certified:
:Factory-tested and certified for seamless

Cisco QSFP28 100G ZR Digital Coherent Optics

The QSFP28 100G ZR can cost effectively extend 100G links to 80km on any fiber type, and is a cost-effective migration option of multiple 10G

Overview of QSFP28 LR4 Optical Transceiver

Discover FS's QSFP28 100G LR4 optical transceiver, offering low power consumption, perfect compatibility, and reliable long-distance

UniFi Enterprise Switching

Power distribution unit designed to support large, rack-mounted UniFi hardware deployments. Core switching powerhouses with speeds up to 100 Gbps and high

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Cisco ONS-QSFP28-LR4 100Gbps LR QSFP28 Optical Transceiver

Deploy Cisco ONS-QSFP28-LR4 100Gbps LR QSFP28 optics for stable long-range backbone links and multi-rate flexibility in ONS platforms. Order online now.

Networking Products and Solutions

Securely connect users, devices, and workloads everywhere. Cisco networking solutions simplify operations, boost performance, and scale to meet your demands.

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PoE-powered sensor with real-time vape detection, air quality monitoring, and instant environmental alerts.

Cisco QSFP28 100G ZR Digital Coherent Optics

Cisco ® QSFP28 100G ZR extends 100GbE coherent links from QSFP28 ports reaching up to 80km over dark fiber and up to 300km over

Everything You Need to Know About QSFP28 Ports:

Learn about QSFP28 ports: features, cable options (DAC, AOC, SMF, MMF), interoperability with SFP, and use cases in data centers, AI/HPC and

Mellanox MSN2100-CB2F 16x 100GbE QSFP28

NVIDIA Mellanox MSN2100-CB2F Overview The Mellanox NVIDIA Mellanox MSN2100-CB2F is an enterprise-class 100GbE switch built to deliver robust,

Juniper JNP-QSFP-100G-SR4 100G QSFP28 Optical

Deploy Juniper JNP-QSFP-100G-SR4 100GBase-SR4 QSFP28 for up to 100m over parallel MMF, simplifying high-density 100G aggregation in your data center.

RUGGEDCOM | Siemens

RUGGEDCOM offers Ethernet Layer 2 rack and compact switches, Layer 3 routers and multi-service platforms, media converters, serial device servers, software,

Ubiquiti Store United States

Enterprise-grade, indoor/outdoor access point designed for high-density environments with 12-stream 5 GHz and 6 GHz WiFi 7 performance, a 10 GbE uplink, and a redundant GbE port for high availability.

Cisco 8800-LC-48H 48x100GE QSFP28 Line Card

Cisco 8800-LC-48H Overview The Cisco 8800-LC-48H is a high-performance line card that features 48x100 GbE QSFP28 ports. This advanced line card offers

QSW-M7308R-4X | Half-width Rackmount 100GbE L3

The QSW-M7308R-4X is a 100GbE L3 Lite Managed Switch with four 100GbE QSFP28 and eight 25GbE SFP28 ports. The QSW-M7308R-4X can uplink to

24 x 10G SFP + 4 x 100G QSFP28 Optical L3 Manage

High-performance switch delivering wire-speed 10-Gigabit switching, routing, and ultra-low latency.

Contact Us

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