

Price of 800GB Optical Router



AI Overview

The price of an 800G optical router typically ranges from \$50,000 to over \$500,000 depending on vendor, configuration, and port density. Pricing Overview 800G optical routers are high-capacity, carrier-grade devices designed for backbone, metro, and hyperscale data center networks. Pricing varies widely based on:

- Vendor and model: For example, UfiSpace's S9620-32E is a 32-port 800G aggregation router optimized for AI-driven traffic and metro networks. Juniper offers modular PTX10004, PTX10008, and PTX10016 routers with 400G/800G capabilities. Ciena's 8192 router provides 14.4 Tb/s throughput with flexible 400G and 800G ports. Arista and other vendors also offer high-density 800G platforms.
- Port density and modularity: Routers with more ports or modular chassis supporting flexible breakout options cost significantly more.
- Optical transceivers: 800G OSFP or QSFP-DD800 transceivers, such as those from YTLINK, add several thousand dollars per port.
- Software and licensing: Advanced features like segment routing, MPLS, QoS, and telemetry often require additional licenses.
- Support and service contracts: Enterprise or carrier-grade support can substantially increase total cost.

How to Obtain Pricing Since 800G routers are enterprise and carrier-grade equipment, prices are typically quoted on request. To get an accurate price:

- Contact vendor sales teams directly (UfiSpace, Juniper, Arista, Ciena) for quotes tailored to your network requirements.
- Specify configuration needs: number of ports, breakout options, transceiver types, and software features.
- Consider total cost of ownership: include power, cooling, and maintenance contracts.

Typical Price Range

- Entry-level 800G routers (fewer ports, fixed chassis): ~\$50,000–\$150,000
- High-density modular routers (carrier-grade, 10+ Tb/s throughput): \$250,000–\$500,000+
- Transceivers: \$5,000–\$15,000 per 800G port depending on vendor and technology

In summary, exact pricing requires a vendor quote, but understanding the factors above helps estimate the investment needed f...

Article Content

Best routers for fiber internet 2025: our top picks for fast

If you are looking for a new fiber internet router, then you should check our round-up of some of the best routers right here.

800G Transceivers and Cables

All 800G modules and cables utilize 8x electrical lanes in each direction (8 transmit lanes and 8 receive lanes), with each lane running at a data rate of 100G PAM-4,

Updated: 800G – nothing but the facts

If you have been following Ciena, you know 800G adoption is underway. With that comes a lot of interest and questions. Ciena's Helen Xenos

QSFP-DD800 MSA Paves The Way For 800G Links In Data Centers

A new 800G MSA is formed to support continued growth in traffic demand and the resulting need for higher link data rates in data centers. Once again, Cisco is there at the forefront.

200G/400G/800G Optical Transceiver Modules | FiberMall

200G/400G/800G optical module features up to 40km transmission distances using QSFP56/QSFP-DD footprints for data center interconnect applications - FiberMall

The Future of 800G Optical Modules: Market Forecast

The 800Gb and beyond connectivity conundrum The global demand for high-speed optical modules is accelerating, and 800G modules are at the

Super High-Performance 800G Fiber Transceivers

Addressing Escalating Data Demands with 800G Transceivers As data usage continues to surge, driven by factors like cloud services, video streaming, and advanced data centers, there's a growing need

800G NDR InfiniBand Transceivers and Cables

800G NDR Infiniband operates at 100 Gbps per lane, utilizing advanced PAM-4 signaling and sophisticated error correction mechanisms. The technology supports multiple connector types and

Technology from 400G to 800G to 1.6T Transceivers

This paper describes the technical route of optical communication from 400G to 800G to 1.6T optical modules and compares pluggable and CPO.

800G OSFP DR8+ 800G OSFP DR8+ price and specs

800G OSFP DR8+ is designed for use in 800 Gigabit Ethernet links on up to 2km of single mode fiber. The module is compliant with the OSFP MSA, and IEEE

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ICE-X 800G ZR/ZR+

ICE-X 800G ZR/ZR+ marks a significant evolution in coherent pluggables optical engines providing a cost-effective and power

800G OSFP/QSFP-DD | Transceiver Modules

The 800G transceiver modules are ideal choice for AI data centers, enterprise networks and service provider networks. Click to get your 800G transceiver modules and cables from nearby warehouses.

NVIDIA InfiniBand 800G OSFP

Display: 24 per page Sort by: Featured View opticswave NVIDIA InfiniBand MMA4Z00-NS Compatible 800Gb/s Twin-port OSFP, 2x400Gb/s Multimode SR8

64-Port 800G OSFP 51.2T Ethernet 2U Switch for AI

N9500-640C is a low latency 800G RoCE 2U switch with 64x800G OSFP ports, SONiC OS, and Broadcom Tomahawk 5 (BCM78900), delivering 51.2Tbps

800G is here: pushing the boundaries of what your

But WaveLogic 5 Extreme is so much more than just 800G. Because along with single-carrier 800Gb/s throughput for short reach distances, users can

How to Choose the Right 800G tranaceiver for Data

Explore guide to 800G optical transceivers—compare OSFP vs. QSFP-DD, key specs, deployment best practices, and future trends to future-proof your data

800G Optical Modules Explained: Standards, Types

Discover everything about 800G optical modules—standards, packaging, types & applications. Learn how they power AI, HPC & next-gen data

BRKOPT-2699

High-Speed Interconnects: Backend network requires high speed 100G/200G or 800G optics to connect servers and network switches. These high bandwidth connections are essential for handling the data

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800GB OSFP SR8 InfiniBand Optical Transceivers Tier 1 Optical Components - Tested For Compliance, Performance & Compatibility - Limited Lifetime Warranty

Cisco OSFP 800G Transceiver Modules Data Sheet

Learn more about how Cisco is using Inclusive Language. The Cisco ® OSFP 800G transceiver modules provide 800 Gigabit Ethernet (GE), 2x

800G Client Optics in the Data Center

The next generation of solutions currently being developed will support 200G PAM4 wavelengths, reducing the optical complexity and cost of the modules, and enabling greater switch and router

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800G Client Optics in the Data Center

When hyperscale data center operators start deploying a new generation of client optics, they immediately require massive volumes of optical modules to build out switching fabric and router

Contact Us

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