

Enterprise-grade optical router 400G with landed price



AI Overview

The landed price of a 400G enterprise-grade optical router typically ranges from \$50,000 to over \$200,000 for the base chassis, with additional costs for 400G optical transceivers depending on reach and form factor.

Router Hardware Costs Enterprise-grade 400G routers, such as Juniper MX204-HW-BASE, are compact edge platforms supporting high-density 400G interfaces. The MX204 is suitable for small to medium-sized businesses and can scale with traffic demands. For larger deployments, Juniper's PTX series (PTX10004, PTX10008, PTX10016) offers ultra-high port density and throughput up to 28.8 Tbps in compact form factors, optimized for WAN and data center networks. These high-capacity routers are modular or fixed, with prices generally starting around \$50,000-\$100,000 for smaller edge models and exceeding \$200,000 for high-end PTX platforms.

Optical Transceiver Costs The cost of 400G optical modules varies significantly based on transmission distance, form factor, and brand:

- Short-reach (SR8, up to 100-500m):** lower cost, typically several thousand RMB per module.
- Medium-reach (DR4, FR4, 2 km):** high thousands RMB.
- Long-reach (LR4, 10 km):** generally above ten thousand RMB per module.

Form factor: QSFP-DD modules are usually less expensive than OSFP.

Brand: Original Cisco modules are more expensive than third-party compatible options. For a fully equipped 400G router, the transceiver cost can add \$10,000-\$50,000 or more, depending on the number of ports and reach requirements.

Additional Considerations Landed price includes shipping, import duties, and taxes, which vary by region. For example, shipping a Juniper MX204 or PTX chassis with multiple 400G transceivers to the U.S. or Europe may add 5-15% to the hardware cost.

Licensing and software features: Some routers require additional licenses for advanced routing, telemetry, or MACsec...

Article Content

QSFP-DD Price Guide 2026: 400G/800G Costs & TCO Analysis

This guide delivers clear, accurate pricing data. It breaks down the current costs for 400G and 800G modules, provides an objective comparison between OEM and third-party products,

Huawei QSFP-DD-400G-ZR 400G DWDM 40km LC Module Price

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Carrier-grade NE9000-8 02351PMK Large capacity 400G high

The NE9000 core router (referred to as NE9000) is a high-capacity, high-performance router designed by HW according to the requirements of telecom grade reliability.

400G vs 100G: Why Price Parity Makes the 400G Upgrade Mandatory

Still buying 100G? 2026 market data shows 400G optical transceivers have reached price parity. Discover how LINK-PP's 400G solutions reduce TCO, double density, and simplify your migration

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

Service provider router sales benefit from 400G demand: Dell'Oro

The market research firm states in its new Service Provider Router & Switch 5-Year Forecast Report that demand for 400-Gbps routing technologies from telecom and cloud SPs will

Juniper MX204-HW-BASE Router, 400G Edge Platform,

Juniper MX204-HW-BASE Overview The Juniper MX204-HW-BASE is a carrier-grade network router engineered for high-performance edge and aggregation

China 400G Optical Module Manufacturers, Suppliers, Factory ...

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400 Gbps Technology: The Next Phase of the Internet

Given the expected traffic growth across backbone networks around the world, we believe the increasing adoption of 400 Gbps-capable routers by

100G vs 400G vs 800G Ethernet: Enterprise & AI Network Upgrade

Compare 100G, 400G, and 800G Ethernet for enterprise and AI networks. Learn upgrade timing, power, cabling, and RS-supported procurement strategies.

400G Coherent Pluggable Optics Use Cases At a Glance

400G Coherent Pluggable Optics Use Cases Supercharge and simplify high-speed transport networks QSFP-DD pluggable transceivers with 400G coherent optical technology deliver breakthrough

Cisco 400G Data Center Networking

Transform your data center networking infrastructure with high-density 400G Cisco switches scalable to 800G. Optimized for simplicity and sustainability.

The 400GE inflection point

Conventional DCI solutions use short-reach gray optics to interconnect data center gateway routers with DWDM transponders in chassis-based optical line systems that multiplex these 400G wavelengths

LightCounting :: March 2025 Ethernet Optics

It leverages extensive historical data on shipments of Ethernet modules combined with extensive market research to forecast sales of these products in 2025-2030.

Buy Enterprise Routers at Competitive Prices with 1yr

ServerBasket provides you a one-stop solution for your router needs. Choose from top brands and models with custom-built configuration. We host enterprise-grade routers from Cisco, Juniper,

400G Transceivers — Transceiver USA

Transceiver USA's optical QSFP and OSFP modules are used in enterprise and datacenter networks. View price, stock and buy direct from Transceiver USA.

How to Upgrade from 100G to 400G Ethernet?

A quick guide to upgrading from 100G to 400G, covering cabling, transceivers, switch requirements, and cost-efficient deployment tips.

Cisco 400G QSFP-DD High-Power (Bright) Optical Module

These small, modular optical interface transceivers offer a convenient and cost-effective solution for an array of applications in the data center, campus, metropolitan-area access and ring network, storage

What You Need to Know About the 400G QSFP112 FR4 Optical

Understanding the 400G optical module, particularly the QSFP112 FR4 version, requires knowledge of compatibility, environment impacts, and design limitations. This guide covers real-world applications

Ethernet/RoCE Transceiver Modules and Cables

FS offers a growing portfolio of 200/400/800G/1.6T optical transceiver modules and cables. The super-high density and backwards compatibility can enable high bandwidth and high speed links for data

400G/800G for Hyperscale and Multi Tenant Data Centers

The optical market for 400G is being driven by cost and performance as OEMs try to dial into the sweet spot of hyperscale and cloud scale data centers. In 2017,

IP + Optical: The Mainstream Solution for the 400G Era

2. IPoWDM has failed in the 100G era and cannot be implemented in the 400G era During the synchronous acceleration of both IP devices and optical transport devices, some device vendors

Contact Us

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