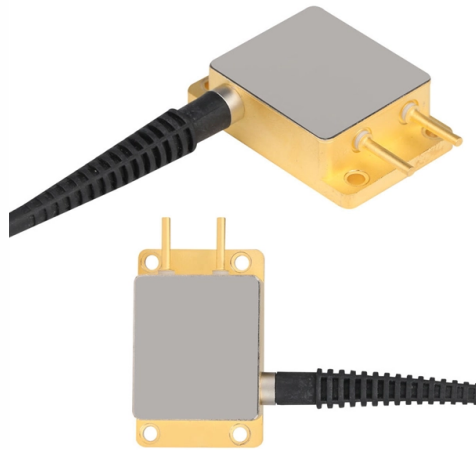


Price of a 400g Coherent Optical Module



Article Overview

The cost of a 400G coherent optical module typically ranges from \$5,000 to \$15,000 per unit, depending on reach, form factor, and vendor.

Pricing Overview

400G coherent optical modules, such as QSFP-DD DCO 400ZR+ or ZR+ extended-reach modules, are high-performance pluggable transceivers designed for metro, regional, and long-haul fiber networks . The price varies significantly based on:

- Reach and performance: Standard 400ZR modules for short DCI spans (~80–120 km) are generally at the lower end of the price range, while ZR+ modules capable of 300–600 km or more can cost substantially more due to enhanced FEC, higher launch power, and advanced modulation options .
- Form factor: QSFP-DD and OSFP pluggables are common; QSFP-DD modules are widely used in data centers, while OSFP may be preferred for higher-density or long-haul applications .
- Vendor and supply chain: Modules from first-tier OEMs or certified suppliers often carry a premium, while third-party or multi-vendor compatible modules may be slightly cheaper .
- Additional features: Modules with integrated digital coherent optics (DCO), advanced DSPs, or extended temperature and power specifications can increase cost .

Typical Cost Ranges...

Article Content

Acacia 400G CFP2-DCO Pluggable Coherent Optical Module, Brand

Descriptions: Acacia 400G CFP2-DCO Pluggable Coherent Optical Module Features: CFP2-DCO Coherent transceivers are fully

100GE/200GE/400GE DCO Coherent Transceivers | FiberMall

FiberMall offers CFP DCO, CFP2 DCO, OSFP DCO & QSFP-DD DCO Coherent Optical Transceiver Module supporting up to 400G

800G/400G Coherent OSFP/QSFP-DD Transceiver Modules | Optical

FS 800G/400G Coherent OSFP/QSFP-DD optical transceiver module solutions offer a range of OSFP/QSFP-DD modules

Nokia 400ZR/ZR+ Coherent Modules

The small size and lower power consumption of The Nokia QDDCO4Z 400G ZR module supports 400G applications up to 120 Km,

Coherent Optics at 400G, 800G, and Beyond

The divergence of coherent pluggable and embedded optics trajectories and the convergence of IP and optical in IPoDWDM

400G ZR Optics Pluggable Coherent Modules | Acacia

The 400G ER1 QSFP-DD pluggable coherent optical module has a rich feature set including client multiplexing and

Cisco 400G QSFP-DD Ultra Long Haul Coherent Optics Module Data

The Cisco 400G QSFP-DD Ultra Long-Haul Coherent Optics Module enables 400G traffic anywhere over dense

400G ZR+ OSFP Coherent DCO Transceivers

The 400 ZR+ module on an OSFP form factor is designed for use by hyperscale data center operators and peering networks to

400G Coherent Optical Module Solution for Metro Optical Transmission

Common Challenges Encountered With the explosive growth of Internet traffic, the demand for fibre optic transceiver modules from

The Evolution of Optical Modules: 400G → 800G → 1.6T – A Strategic ...

Discover the evolution from 400G to 800G and 1.6T optical modules. Learn key technologies, CPO vs pluggable, and

400G QSFP-DD ZR Coherent Optical Module

The GIGALIGHT 400G QSFP-DD ZR coherent optical module supports 400GE and OTN links reach up to 120km. It operates on full

Coherent 400G Finisar Fiber Optic Transceiver Modules

Coherent 400G Finisar Fiber Optic Transceiver Modules are designed for use in Gigabit Ethernet links on various

Cisco 400G Digital Coherent Optics QSFP-DD Optical Modules Data

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

Coherent 400G Finisar Fiber Optic Transceiver Modules

The Coherent 400G Finisar Fiber Optic Transceiver Modules utilize a Single 3.3V power supply, 4x100Gb/s PAM4

400G Coherent Transceivers

400G Optical Modules for Extended-Reach Data Center Interconnect; Metro and Regional Networks; and All Your Connectivity

400G Coherent Transceivers

Get Expert Advice or a Quote. With one of the industry's most comprehensive optical transceiver portfolios - ranging from 10G SFP+

400G Coherent CFP2 DCO C-band Tunable Optics | FiberMall

100G/200G/400G Coherent CFP2 DCO Transceiver Module (DWDM C Band 50GHz Grid: 191.15-196.1GHz) The 400G CFP2 DCO

400G Coherent QSFP-DD Transceiver Modules | Optical Transceivers

FS 400G Coherent QSFP-DD optical transceiver module solutions offer a full range of QSFP-DD modules 120km reach, and used for

400G Coherent Optical Devices: Architecture, Applications & Trends

400G Coherent Optics is a complex system that integrates key photonic and electronic components to enable high

Cisco QSFP-DD 400G ZR/ZR+ Low Power Consumption Coherent

Cisco® QSFP-DD 400G ZR/ZR+ low-power coherent optical modules provide power savings in high-port-density

PSE 100G/400G pluggable coherent optics

Our pluggable coherent modules are used across our optical network platforms, converged IP-optical routing and fixed network

Coherent ZR Series

Our family of ZR and ZR+ pluggable transceivers provides cost-efficient coherent transmission up to 400Gbit/s line speeds.

Relative Cost Analysis on IM-DD vs Coherent for 800G-LR

Transceiver Power Consumption (400 vs 800G) 400G & 800G optics modules with the 100 Gb/s electrical/optical lane

Understanding the 400G ZR: A Revolutionary Coherent Optical

Discover the 400G ZR transceiver module, a cutting-edge coherent optical solution designed for 400Gb Ethernet

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

QSFP-DD price guide with 400G/800G module costs, OEM vs third-party comparison, volume discounts, and 3-year

800G/600G/400G OSFP Digital Coherent Optics Transceiver

High transmitter optical output power enable the transceivers to be compatible with deployed and emerging ROADMs line systems.

400G Coherent CFP2 DCO C-band Tunable Optics | FiberMall

Available for back order. See details. The 400G CFP2 DCO is a portfolio of digital coherent optical transceiver (or transponder)

400G Digital Coherent QSFP-DD DWDM Optics Transceivers

400G Digital Coherent QSFP-DD DWDM transceivers, ZR, ZR+ & ZR+ Pro variants, compatible with Cisco, Juniper, Nokia & Arista.

Coherent Expands Its Portfolio of Silicon Photonics Transceivers for ...

Mar. 20, 2025. Coherent announces the launch of its 2x400G-FR4 Lite optical transceiver, a silicon photonics-based module

400G QSFP-DD Digital Coherent Optics transceiver

Datasheet Networking 400G QSFP-DD Digital Coherent Optics transceiver OIF 400ZR, Standard Tx output power (-10dBm), C-band

Contact Us

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