

Purchase price of 100g optical module



AI Overview

100G optical modules typically range from \$35 for short-reach SR modules to over \$20,000 for long-haul coherent DWDM units, depending on type, reach, and vendor. Price Ranges by Module Type

Short-reach SR/DR modules: Entry-level 100G QSFP28 SR modules for data centers can cost \$35–\$250 per unit, offering affordable high-speed connectivity for short distances over multimode fiber (MMF).

Mid-range LR/CWDM modules: Vendor-certified long-reach modules like LR4, FR1, or CWDM4 typically cost \$200–\$1,000, providing 10 km single-mode fiber (SMF) reach and broad platform compatibility.

High-end DWDM/coherent modules: Specialized 100G DWDM or coherent transceivers for metro or long-haul networks can exceed \$2,000–\$20,000, reflecting the complexity of single-lambda lasers, tunable optics, and long-distance performance.

Factors Affecting Cost

Technology and Components: Modules with single-mode DFB lasers, coherent optics, or tunable DWDM components are more expensive than VCSEL-based short-reach SR modules.

Branding and Vendor Support: OEM-branded modules (Cisco, Juniper, HPE) often carry a premium due to warranty, platform certification, and support, while third-party compatible modules can be significantly cheaper.

Engineering and Testing: Costs include design verification, reliability testing (temperature cycling, moisture, shock), and production overhead, which influence the final price.

Volume and Business Strategy: Bulk purchases, vendor relationships, and promotional pricing can reduce per-unit cost, especially in B2B data center deployments.

Cost Efficiency When evaluating 100G modules, consider cost per gigabit. For example, a \$35 QSFP28 SR4 module delivers 100G, equating to \$0.35 per Gbps, which is far more cost-effective than lower-speed modules like 10G SFP+ at \$2 per Gbps.

Summary

Entry-level short-reach 100G: \$35–\$250

Mid-range long-reach 100G: \$200–\$1,000

High-end coherent/long-haul 100G: \$2,000–\$20,000+

Choosing the right module depends on reach requirements...

Article Content

FS Community

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

100G DWDM QSFP28 Transceiver Modules | Optical

FS 100G DWDM QSFP28 optical transceiver module solutions offer a full range of QSFP28 modules 80km reach. Purchase from nearby warehouses. 30-Day Free

100G Optical Modules

Types of 100G Optical Modules A 100G optical module is a high-speed transceiver used in fiber optic communication networks to convert electrical signals into optical signals and vice versa.

100G Optical Module Market Research Report 2034

100G Optical Module market valued at \$7.65B in 2025, projected to reach \$15B by 2034, growing at 7.8% CAGR through enhanced data center capacity and 5G infrastructure expansion.

Optical Transceiver Modules Prices & Specifications

What is Optical Transceiver Modules/SFP? Optical Transceiver Modules/SFP, also called fiber optic transceiver or optical transceiver, is a typically hot-pluggable

100G QSFP28 Module Cost: Pricing Guide & Factors

Discover 100G QSFP28 module pricing. Learn key cost factors, considerations, and real examples to make informed purchasing decisions for

Save on Cisco 100G and 400G optics

Take advantage of volume discounts for Cisco optics and maximize the port utilization on your switches and routers. This promotion includes 100G optics with reaches up to 80 km and 400G optics with

QSFP28 Price Guide 2026: 100G Transceiver Costs

The price of a QSFP28 module depends on the module type, reach, coding, temperature grade, warranty, order quantity, and supplier. Compatible

Optical Transceiver Pricing: Cost Ranges by Speed and

See practical price ranges for 1G-100G optical transceivers, DAC/AOC options, and why cost varies by speed, reach and technology — buying tips included.

Wholesale Optical Transceivers Module | 100G QSFP28, 40G QSFP

Shop high-speed optical transceivers from Unitekfiber. We offer 100% compatible 40G, 100G, and 400G QSFP-DD modules for data centers. Expert technical support & wholesale pricing.

QSFP28 Optical Transceiver Modules for Sale (100G) | Cables on

QSFP28 Optical Transceiver Modules (100G-SR/LR) Buy 100G QSFP28 Optical Transceiver Modules by Amphenol XGIGA Factory-Direct at Cables on Demand in 100GBASE-SR4 (Short-Range

Key Differences Of 100G, 400G, And 800G Explained

optical modules with different rates have been launched one after another, among which 100G, 400G and 800G optical modules have become the

100G CFP/CFP2/CFP4 Optical Transceiver Modules

100G Optical Modules are compliant with the 100G Ethernet & MSA standards featuring CFP/CFP2/CFP4 footprint and LR4/ER4/ZR4 options for data center

100G QSFP28 Transceiver Modules | Optical

FS offers a growing portfolio of 100G QSFP28 modules. The 100G QSFP28 module solution provides high-performance 100GbE connectivity for data centres,

100G QSFP28 for Cisco QSFP-100G-SR4-S 100GBASE-SR4 QSFP28 Optical ...

About this item □QSFP28 100G□Cisco 100Gigabit Ethernet, coding as Cisco QSFP-100G-SR4-S □100GBASE-SR4□QSFP28 transceiver module, 100Gbps, multi mode, 850nm, 100m, MTP/MPO

Global 100G Optical Module Market Size, Industry

Delve into detailed insights on the 100G Optical Module Market, forecasted to expand from USD 3.2 billion in 2024 to USD 8.5 billion by 2033 at a CAGR of

Cisco 100G Optical Modules Price

Cisco 100G Optical Modules To meet ever growing bandwidth requirements of service provider and data center networks, 100 Gigabit Ethernet was officially standardized in July 2010 under IEEE 802.3ba.

100G Optical Module Selection Guide: Advantages and Types of

Explore the QSFP28 100G optical module, a vital component for high-speed network connections. Discover its unique features, advantages, and various types to meet diverse

QSFP28 Optical Transceiver Modules for Sale (100G) | Cables on

Buy 100G QSFP28 Optical Transceiver Modules by Amphenol XGIGA Factory-Direct at Cables on Demand in 100GBASE-SR4 (Short-Range Multimode) and 100GBASE-LR1 (Long-Range Single

100G QSFP28 Optical Transceiver Modules | FiberMall

FiberMall offers 100G QSFP28 Optical Transceiver Modules provides 100 Gigabit Ethernet connectivity for up to 100km transmission with the MPO/LC connector.

Optics and Transceivers | Fiber Optical Transceivers

FS offers a growing portfolio of optical transceivers, with speed range from 100M, 1G, 10G, 25G, 40G, 50G, 100G, 200G, 400G to 800G and beyond. The fiber

100G QSFP28 Optical Transceivers | Transceiver Modules

Buy online compatible 100G QSFP28 transceivers at QSFPTEK for high-performance 100GbE connectivity. QT QSFP28 includes 100GBASE-SR4/LR4/ER4/ZR4, from 100m to 80km.

Fiber Optic Cables | Fiber Patch Cables | Patch Cords,

Fiber Patch Cables, Multimode & Singlemode Duplex Fiber Optic Cables, Secure Order Fiber Patch Cords, Preferred Mil. Edu. Gov. Pricing, Same Day Shipping

SpellChecker/dict at main · CaiQiuL/SpellChecker · GitHub

Contribute to CaiQiuL/SpellChecker development by creating an account on GitHub.

25G/40G/50G/100G Optical Transceiver Modules | FiberMall

FiberMall offers 25G SFP28/40G QSFP+/100G QSFP28 Transceiver Modules designed with form factor, optical/electrical connection, and digital diagnostic interface.

Contact Us

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