

Price of a 100g coherent optical transceiver silicon photonics module



AI Overview

The price of a 100G coherent optical transceiver silicon photonics module typically ranges from \$1,500 to \$3,500 per unit, depending on vendor, distance capability, and specifications.

Pricing Overview

High-speed 100G coherent optical transceivers, such as QSFP28 Digital Coherent Optics (DCO) modules, are designed for edge networks, metro, and data center interconnects. For example, FiberMall lists QSFP28-100G-DCO-ZR modules supporting 100G transmission over distances up to 120 km, with optional extension to 300 km, and these modules generally fall in the \$1,500–\$3,500 range depending on manufacturer and order volume (FiberMall). Intel silicon photonics 100G modules, such as the SPTSLP2SLCDF QSFP28 DR1, are also available on marketplaces like eBay, with prices in a similar range for brand-new units, though exact pricing may vary based on seller, shipping, and financing options.

Factors Affecting Price

- **Transmission Distance:** Modules supporting longer distances (e.g., 120–300 km) or higher-quality coherent optics typically cost more.
- **Form Factor:** QSFP28 is standard for 100G coherent modules, but other form factors like CFP2-DCO or QSFP-DD DCO may influence pricing.
- **Vendor and Certification:** OEM-certified modules from first-tier manufacturers may be priced higher than generic or third-party modules.

Article Content

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

100G CFP Transceivers — Transceiver USA

Coherent Finisar CFP optical transceiver modules are used in enterprise and datacenter networks. View price, stock and buy direct

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PSE 100G/400G pluggable coherent optics

Pluggable coherent optic transceivers integrate all the functions needed in a digital coherent optic (DCO),

Intel SPTSBP4CLCCO Silicon Photonics 100G CWDM4 QSFP28

It's brand new, well-made, and clearly high quality, with a really flattering and stylish look. It was neatly packaged and a

Everything You Need to Know About 800G/1.6T Optical Transceiver

Introduction to 800G/1.6T Pluggable Optics Modules The Evolution of Optical Transceivers: From 100G to 1.6T Driven by the

Acacia Single Chip Silicon Photonics 100G Coherent Transceiver

Coherent technology has been mainly deployed in long-haul networks, and it is now starting to be deployed in metro

DSP and Silicon Photonics in Coherent Systems

DSP and Silicon Photonics in Coherent Systems By Atul Srivastava In this tech info, we will provide background and

Technology from 400G to 800G to 1.6T Transceivers | FiberMall

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

100G ZR QSFP28 Coherent DCO Transceivers Overview

The Steelerton DSP is the first purpose-built DSP for 100G ZR applications, optimized for the lowest power dissipation

Integrated Silicon Photonics Transceiver Module for 100Gbit/s 20km ...

The architecture, packaging, and performance of a Silicon Photonics single transceiver chip PAM4 optical QSFP28 transceiver

Coherent Announces General Availability of 100G ZR QSFP28-DCO Transceiver

Sept. 23, 2024. Coherent announces the general availability and production release of the industry's first 100G ZR QSFP28 digital

Products » Acacia

Coherent Optical Components Powering 100G to 1.2T Coherent Modules Our module products are powered by our internally

800G/1.6T Optical Transceiver and Co-Package Module

In conclusion, the 800G optics modules are currently under development and target dual 400G and octal 100G

Single-Chip Silicon Photonics 100-Gb/s Coherent Transceiver

Abstract: We demonstrate a monolithic silicon photonics integrated circuit that contains all the optics for a 100-Gb/s coherent

100G ZR QSFP28 Digital Coherent Optics (DCO) Transceiver

To accommodate deployment in a broad range of edge network locations, such as street cabinets or pole mount enclosures, a

Optical Transceiver Pricing: Cost Ranges by Speed and Type

See practical price ranges for 1G–100G optical transceivers, DAC/AOC options, and why cost varies by speed, reach and technology

II-VI/Finisar 100Gb CWDM4 Optical Transceiver

SPR21615 This full reverse costing study has been conducted to provide technology data, manufacturing cost and the selling price of

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

400G Silicon Photonics Integrated Circuit Transceiver Chipsets for

At 100G/lane (e.g. 50Gbaud PAM4) and higher, the electrical interfaces of processors (i.e. Switch, FPGA, CPU, GPU, etc.) become

Intel SPTSBP4CLCCO Silicon Photonics 100G CWDM4 QSFP28

Find many great new & used options and get the best deals for Intel SPTSBP4CLCCO Silicon Photonics 100G CWDM4 QSFP28

Silicon Photonics for 100G-and-beyond Coherent Transmissions

We describe component and module performances of our silicon based photonic integrated circuits developed for 100G to 400G

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

The optical module market is expected to grow to nearly \$12 billion by 2026 as 1.6T technologies emerge. Market

EML vs VCSEL vs CW Laser: Optical Transceiver Guide (2025)

Compare EML, VCSEL, and CW laser technologies in optical transceivers. Covers cost, reach, speed, the 2025 EML

Coherent ZR Series

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

Coherent announces general availability of first 100G ZR QSFP28

24 September 2024 Coherent announces general availability of first 100G ZR QSFP28-DCO transceiver Materials, networking and

Cisco Optics | Transform Your Network

Get the highest quality, performance-leading optical transceivers for any network architecture. Find the transceiver model to fit your

QSFP28-100G-DCO 100G ZR QSFP28 DIGITAL COHERENT

The 100G ZR QSFP28-DCO transceiver is fully compliant to the IEEE 802.3™-2022 100GBASE-ZR standard, ensuring

100G QSFP28 Transceiver

Cisco QSFP-100G-ER4L-S Compatible 100GBASE-ER4 Lite QSFP28 1310nm 40km with FEC, 30km without FEC (Rx Type APD)

DCI Optical Modules | Delivering high bandwidth over distance

Explore DCI Modules Marvell offers a portfolio of DCI modules designed to efficiently transmit data over regional fiber networks.

SiPh 100G QSFP28 LR1 1310nm 10km Optical Transceiver

GIGALIGHT 100G QSFP28 LR1 optical transceiver module adopts single-wavelength 100G PAM4 and silicon photonics integration

Silicon photonics for high-speed communications and photonic signal ...

We also describe recent advances on high-speed silicon modulators for enabling data rates of individual data lanes in

Industry-First I-Temp 100G ZR QSFP28-DCO Module for Expanded ...

Mar. 20, 2024. The I-Temp 100G ZR QSFP28-DCO transceiver is ideal for street cabinets and pole-mount physical plants in edge

Silicon photonic transceivers in the field of optical communication

Abstract Silicon photonics has developed rapidly in recent years, which has received widespread attention due to the

Contact Us

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