Price of a 100G Silicon Photonics Module

AI Overview

The price of a 100G Silicon Photonics Module typically ranges from $1,500 to $3,000 per unit, depending on manufacturer, type, and application.Market Pricing OverviewCurrent market data indicates that 100G Silicon Photonics Modules are in high demand due to cloud computing, AI workloads, and 5G network expansion, which drives pricing upward. For example, Intel's 100G DR1 optical transceiver modules are available on secondary markets like eBay, with individual units priced around $1,500–$2,500 depending on condition and availability .Factors Affecting PriceManufacturer and Brand: Leading suppliers include Intel, Cisco, Marvell (InPhi), II-VI Incorporated (Finisar), Juniper Networks, Rockley Photonics, and Fujitsu . Premium brands or modules with advanced features often command higher prices.Module Type and Application: Data center transceivers, long-haul transceivers, and co-packaged optics differ in cost. Modules designed for hyperscale data centers or AI/ML clusters may be more expensive due to higher performance and lower latency requirements .Market Trends: The global market is projected to grow from $2.81 billion in 2025 to $8 billion by 2035, reflecting a CAGR of 11% . This growth, driven by increasing bandwidth demand and technological advancements, can influence pricing.Supply and Demand: Limited production capacity, high adoption in North America and Europe, and rapid technological upgrades can create price fluctuations .Practical ConsiderationsBulk Purchases: Prices per unit may decrease when buying in large quantities for enterprise or data center deployments.Secondary Market: Open-box or refurbished modules may be available at lower prices, but buyers should verify compatibility and warranty.Future Trends: As silicon photonics technology matures and production scales, prices are expected to gradually stabilize, though high-performance modules will remain premium. In summary, for a standard 100G Silicon Photonics Module suitable for data center or enterprise networking, expect to pay b...

Article Content

100G Silicon Photonics Modules Market -

In 2025, the 100G silicon photonics modules market reached an estimated USD 2.15 Billion. From there, it was set on a steady climb to USD 3.13 Billion by 2032, implying a 5.8% CAGR

Silicon Photonics, LPO/LRO and NPO/CPO: Global Market 2027-2037

Further demand comes from telecommunications, FMCW LiDAR and sensing, and biomedical uses. Silicon Photonics, LPO/LRO and NPO/CPO: Global Market 2027-2037 is a

TSEM Transcript

Overview The earnings call reveals strong financial performance with record revenue guidance and significant growth in key areas like silicon photonics and RF infrastructure. The

Exploring Innovation in 100G Silicon Photonics Modules

The 100G Silicon Photonics Modules market is booming, projected to reach $2306.4 million by 2025 with a 22.5% CAGR. Driven by data center growth

Top Silicon Photonics Stocks 2026: Breaking the

And the newest entrant: UMC (NYSE: UMC), which licensed imec''s iSiPP300 silicon photonics process and plans to begin risk production in

CFP Optical Modules Market Growth: 16.4% CAGR Analysis

Furthermore, the broader Optical Transceivers Market, which encompasses CFP modules, is benefiting from technological advancements such as coherent optics and silicon photonics,

AI Computing Power Ignites "Gold Material" Indium

Third is the silicon photonics and advanced packaging ancillary sector. In the short-to-medium term, InP remains the core substrate material for

Optical Transceiver Market Size, Growth Drivers

Silicon-photonics leaders exploit captive fabs to compress cycle times for 800G and 1.6 Tbps modules, while vertically integrated Chinese peers

Best Silicon Photonics Stocks 2026: Top 7 AI Picks

Discover the best silicon photonics stocks 2026 powering NVIDIA''s AI boom. Compare top picks, CPO leaders & breakout plays before Wall Street catches on.

Silicon Photonics Market Size, Growth Drivers

Silicon Photonics Market Size & Share Analysis - Growth Trends and Forecast (2026 - 2031) The Silicon Photonics Market Report is Segmented by

Global 100G Silicon Photonics Modules Supply, Demand and Key

Answer - Global 100G Silicon Photonics Modules Supply, Demand and Key Producers, 2024-2030 is priced starting from USD 4,480.00 for Single User License (PDF) which allows one

AI Data Centers Drive Optical Transceiver Market Growth

Analysis of how AI and hyperscale data centers accelerate global optical transceiver adoption, including 400G/800G evolution, silicon photonics, CPO, and Link-PP integration for next

High Speed Optical Modules: Market Disruption & 11.5% CAGR Growth

Key players in the High Speed Optical Modules Market are heavily invested in developing advanced solutions tailored for DCI, focusing on higher port densities, lower power consumption, and

Free Chip Cost Calculator — GDPW, Die Per Wafer & Yield | Silicon

Free die-per-wafer & chip cost calculator: enter die size and process node, get gross die per wafer (GDPW), yield, cost per die, and packaging breakdown. TSMC 3nm to 28nm. No signup.

FinancialContent

MaxLinear and Jabil announce silicon photonics-based pluggable 800G optical module production availability. (Photo: Business Wire) A

Pluggable Optical Modules Market : Global Industry Analysis and ...

Explore the global Pluggable Optical Modules market with expert analysis on growth drivers, trends, key insights, and forecast outlook to 2036.

Global 100G Silicon Photonics Modules Supply, Demand and Key

This reports profiles key players in the global 100G Silicon Photonics Modules market based on the following parameters – company overview, production, value, price, gross margin, product portfolio,

Global 100G Silicon Photonics Modules Market Research Report 2025

The global market for 100G Silicon Photonics Modules was valued at US$ 2306 million in the year 2024 and is projected to reach a revised size of US$ 9372 million by 2031, growing at a CAGR of 22.5%

Optical Transceiver Market Size & YoY Growth Rate,

Optical Transceiver Market Trend Transition to Ultra-High-Speed Modules The optical transceiver market is shifting rapidly toward ultra-high

Photonics Startup Series A Funding Reshapes AI...

Conventional modulators require separate laser modules and complex assembly. OpenLight''s heterogeneous integration puts the modulator and laser on the same silicon die,

What factors influence 400G optical transceiver

Silicon Photonics Integration: Co-packaged optics (CPO) promise to collapse power and cost by integrating optical engines directly onto switching ASICs—potentially

Global 100G Silicon Photonics Modules Market Analysis and Forecast

This report presents an overview of global market for 100G Silicon Photonics Modules, capacity, output, revenue and price. Analyses of the global market trends, with historic market

100G Silicon Photonics Modules Market Report – Research, Industry ...

Global 100G Silicon Photonics Modules market size and forecasts by region and country, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021

100G Silicon Photonics Modules Market | Forecast

The 100G Silicon Photonics Modules Market was valued at 2.81 (USD Billion) in 2025 and is projected to grow to 8.0 (USD Billion) by 2035, at a CAGR of 11.0%.

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: https://www.mr-security.co.za
Email: info@mr-security.co.za
Phone: +33 1 45 23 67 81
Address: 10 Rue de la Paix, 75002 Paris, France

This document is for informational purposes only. Specifications subject to change without notice.