Quotation for a total of 400g of optically packaged components

Overview

400G Optical ModuleThis report aims to provide a comprehensive presentation of the global market for 400G Optical Module, focusing on the total sales volum.

Key Takeaways

The cost of 400 grams of optically packaged components depends on the type, form factor, and supplier, with prices ranging from hundreds to thousands of dollars per module, and a formal RFQ is recommended for precise pricing.

Estimating Costs

Optically packaged components, such as 400G QSFP-DD transceivers, vary widely in price depending on their functionality, optical reach, and vendor. For example, short-reach 400G SR8 modules for in-rack connections typically cost $1,400–$1,800 per unit from reputable third-party vendors, while long-haul coherent modules can exceed $130,000 per unit from OEMs ( ). The total cost for 400 grams will depend on the weight per module and the specific type of optical component you require.

Factors influencing pricing include: Form factor and host compatibility: QSFP-DD, OSFP, or custom packages affect tooling and manufacturing costs ( ). Optical reach and modulation: PAM4 vs.

NR

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Z signaling, fiber type, and transmission distance impact the bill of materials ( ). Supplier type: OEMs generally charge a premium, while third-party vendors offer more economical options ( ). Requesting a QuotationTo obtain an accurate quotation: Prepare a detailed RFQ: Include the bill of materials (BOM), mechanical drawings, and assembly specifications ( ).

Specify operational requirements: Temperature ranges, vibration thresholds, and compliance standards help suppliers provide precise quotes ( ). Include testing and quality standards: Indicate if you require ICT, AOI, or ISO certifications ( ). Clarify volume and delivery expectations: Suppliers can offer volume discounts and lead-time estimates based on order size ( ).

Supplier OptionsUQG Optics offers a wide range of optical components, including lenses, mirrors, filters, and custom assemblies, with immediate shipment options ( ). Third-party 400G module vendors provide cost-effective alternatives to OEMs for standard data center applications ( ).

Recommendation

For a formal quotation, submit an RFQ to multiple suppliers, specifying: Component type and quantity (400g total)Packaging and form factorOptical specifications and tolerancesRequired certifications and testing protocolsDelivery schedule and payment terms This approach ensures accurate pricing, supplier alignment, and minimized post-quotation conflicts ( ).

Article Content

400G Optical Module

This report aims to provide a comprehensive presentation of the global market for 400G Optical Module, focusing on the total sales volume, sales revenue, price, key companies market

Over 20 Million 400G & 800G Datacom Optical Module Shipments

BOSTON (January 7, 2025) – Total shipments of leading-edge datacom optical modules are projected to tally over $9 billion for 2024, according to the latest Optical Components Report from research firm

200G and 400G Silicon Photonics Modules Market

The 400G Modules are projected to grow at the fastest CAGR of 18% during the forecast period. Growth is supported by factors such as the rollout of 5G networks and the increasing need for

Global Perspectives on 400G and 800G Optical Transceivers Growth:

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This comprehensive report delves into the rapidly evolving landscape of 400G and 800G optical transceivers, critical components driving the exponential growth of data traffic.

400G Transport Network Optical And Silicon Component Market

The 400G Transport Network Optical and Silicon Component Market Size was valued at 4,960 USD Million in 2024. The 400G Transport Network Optical and Silicon Component Market is expected to

Global 400G Optical Transceiver Market Size, Growth Trends

Japan''s market for 400G optical transceivers is distinguished by its focus on high-quality, reliable components tailored for advanced telecom and enterprise applications.

Cignal AI: 400G and 800G Optical Module Shipments Quadruple

The demand for high-speed datacom optical modules has surged, with shipments of 400G and 800G units exceeding 20 million in 2024, totaling over $9 billion in revenue, according to Cignal

400G Optical Transceiver Market Research Report 2034

The global 400G optical transceiver market was valued at $6.87 billion in 2025 and is projected to reach $31.82 billion by 2034, expanding at a compound annual growth rate of 18.5% over the forecast period.

400G Optical Transceivers Market Size [2026-2035]

The 400G Optical Transceivers Market encounters challenges associated with component availability and standardization across the ecosystem. Approximately 40% of

Optical Components

Provides quarterly corporate revenue market share by end-market segment and quarterly shipment numbers for select optical components. Revenue-based market share for optical

Electronic Chip Package and Co-Packaged Optics

With the growing demand for high-performance computing (HPC), artificial intelligence (AI), and data communication and storage, new chip

Analysis of 400G Optical Module Packaging Types

Under the background of high-speed development of data centers and telecommunication networks,400G optical module,as a key component,is

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(PDF) 400G Silicon Photonics Integrated Circuit

400G-FR4 silicon photonics transmit-receive chipsets, compatible with co-packaged-optics, on-board-optics, and pluggable form factors, were

Advances in waveguide to waveguide couplers for 3D integrated

The results are discussed in the context of potential applications including co-packaged optics switch packages, replaceable biochemical sensors, optically connected memory, optical

CPO (Co-Packaged Optics): A Key Technology Path for Optical ...

Co-Packaged Optics (CPO) is emerging as a critical technological path for optical interconnects in AI data centers. This article delves into the principles of CPO, its performance

400G optical transceiver shipments to triple by 2025

TrendForce reports that worldwide shipments of 400G and higher optical transceivers reached 6.4 million units in 2023. This figure is expected to grow to 20.4 million units in 2024 and

Five Key Trends of Co-Packaged Optics (CPO) in 2026

Meeting market expectations and building confidence in co-packaged optics will require more than performance demonstrations. CPO adoption depends on proving robust, multi-vendor

What is Co-Packaged Optics (CPO) Technology? | Corning

What is Co-Packaged Optics? What is Co-Packaged Optics? Co-Packaged Optics (CPO) is a technology and design approach where optical components, such as lasers and photodetectors, are

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