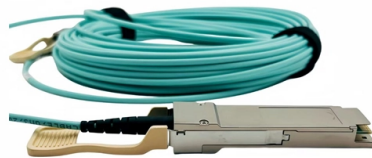


CIF Price for Active Optical Module PAM4



Article Overview

CIF pricing for PAM4 active optical modules varies widely, typically ranging from several hundred to over a thousand USD per module depending on data rate, vendor, and volume.

Overview of PAM4 Active Optical Modules

PAM4 (Pulse Amplitude Modulation 4-level) modules are high-speed optical transceivers used in data centers, AI networks, and telecom infrastructure. They support data rates from 100G to 1.6T, with vendors like Broadcom, Marvell, and Credo offering DSPs and modules optimized for low power, low latency, and high bandwidth. These modules are deployed in pluggable form factors (e.g., OSFP, QSFP-DD) and active optical cables (AOCs) for short- and medium-reach interconnects.

Factors Affecting CIF Pricing

- **Data Rate and Modulation:** Higher-speed modules (400G, 800G, 1.6T) require more advanced DSPs and optical components, increasing cost.
- **Module Type:** Pluggable transceivers, active optical cables, and linear optical modules have different manufacturing complexity and pricing.
- **Volume and Supplier:** Large-scale purchases for hyperscale data centers often receive lower per-unit CIF pricing, while small orders are more expensive.
- **Technology Node:** Modules using advanced DSPs in 5nm or 7nm nodes are more costly than older 16nm designs.
- **Market Conditions:** Supply chain constraints, silicon shortages, and demand for AI and cloud infrastructure can significantly affect pricing.

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MaxLinear announces 5nm CMOS PAM4 DSP with integrated VCSEL

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PAM4 Modulation | How is Transforming Optical Networking?

Short-distance 400G networking is made possible by PAM4 modulation scheme, which is set to revolutionize optical

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Global PAM4 DSP Market Size, Growth Analysis & Forecast 2026-2034

As the backbone of high-speed communication, the PAM4 DSP market is intricately linked to the evolution of optical

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Packaging technology for four channel 200Gbit/s optical emission module ...

A packaging scheme for optical transmission modules based on PAM4 with a data transmission rate of up to 200Gbit/s is proposed

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112-Gb/s PAM4 transmission using polymer-waveguide-coupled

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Active Optical Module Market 2025

Active Optical Module Market was valued at 5916 million in 2024 and is projected to reach US\$ 15140 million by 2032, at a CAGR of

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50G PAM4 Technical White Paper

The optical components and chips of PAM4 modules are very different from those of NRZ modules. The following table lists the

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Optical Module Technology Explanation: PAM4 Technology Overview

For the PAM4 signal generator, it can provide excellent signal integrity because there is no external various passive or

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Price list for PAM4 optical amplifiers for data center interconnection ...

Explore the 400G OSFP SR4 optical transceiver module, designed for high-speed data centers and enterprise networks. Features

Contact Us

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