

Price of Optical Module Circuit Board for Sale



Article Overview

The price of optical module PCBs varies widely depending on type, complexity, and manufacturer, typically ranging from a few dollars for basic HDI boards to several hundred dollars for advanced high-speed multilayer boards.

Price Overview

Optical module PCBs are specialized circuit boards designed for high-speed data transmission, integrating optical and electrical components such as lasers, photodiodes, and driver ICs. Prices depend on factors like layer count, material quality, signal integrity requirements, and thermal management features. Basic HDI optical module PCBs can be sourced at relatively low prices, often starting from \$5-\$20 per unit for small-scale or standard designs, while advanced boards for 400G/800G transceivers or coherent optics can cost \$100-\$300 or more per unit due to complex multilayer designs and hybrid integration techniques .

Market Trends Affecting Price

The global optical module PCB market was valued at approximately \$3.75 billion in 2024 and is projected to grow at a CAGR of 8-8.8% over the next decade, driven by 5G deployment, cloud computing, hyperscale data centers, and AI/ML-driven traffic . Technological advancements, such as low-loss laminates, automated manufacturing, and high-density interconnects, are increasing performance but also influencing cost . Regional production differences exist: Asia-Pacific (especially China) dominates ma...

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Optical Module PCB Board Market – PW Consulting Information ...

The Optical Module PCB Board Market was valued at USD 1.25 Billion in 2025 and is projected to reach USD 2.60

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Optical Module PCB | APTPCB

Key Takeaways Definition: An Optical Module PCB is the internal circuit board of a transceiver (like SFP, QSFP, or OSFP)

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Characteristics and Applications of Optical Module PCB Technology

Overview of Optical Module PCB Technology An optical module PCB is a specialized circuit board designed to

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Optical Transceiver Modules Prices & Specifications

What is Optical Transceiver Modules/SFP? Optical Transceiver Modules/SFP, also called fiber optic transceiver or optical

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Optical Module PCB Board Market: \$89.4B by 2034, 6.6% CAGR

The Optical Module PCB Board market is projected to reach \$89.4B by 2034, growing at a 6.6% CAGR due to rising

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About HDI Optical Module PCB

The optical module includes an optical module housing, a fiber optic connector, a transmitter-side optical component,

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Optical module - A comprehensive exploration

The optical module is composed of optoelectronic devices, functional circuits, and optical interfaces. It mainly

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What is Optical PCB?

This article delves into the intricacies of PCB optical modules, discussing their applications, technical requirements,

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Amplifier Modules | Boards | PCB Modules | RS

Amplifier modules, also known as amplifier boards, are PCB (printed circuit board) modules featuring an audio amplifier chip. Why

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