

How much does an optical-to-electrical port module cost

Article Overview

Optical-to-electrical port modules range from around \$20 for basic SFP modules to several thousand dollars for high-performance photodetector converters.

Consumer and Enterprise Modules

Basic optical-to-electrical modules, such as 1.25G SFP RJ45 fiber modules, are available on platforms like Amazon for approximately \$20-\$50, depending on specifications like data rate, distance, and brand compatibility (e.g., H3C-compatible modules) . These modules typically support gigabit Ethernet and are suitable for standard networking applications.

High-Performance Professional Modules

High-end modules, such as the Keysight N7005A 60 GHz optical-to-electrical converter, are designed for high-speed optical signal testing and system-level debugging. These modules are not sold with a fixed price online; instead, a quote must be obtained from the manufacturer, and prices can reach several thousand dollars due to their advanced capabilities, including support for 56 Gbaud PAM4 signals and compatibility with high-end oscilloscopes .

Market Overview

Optical-to-electrical modules vary widely in price based on:

- o Data rate: 1G, 2.5G, 10G, 25G, 40G, 100G
- o Form factor: SFP, SFP+, QSFP, XFP
- o Distance and wavelength: Short-range (up to 30 meters) vs. long-range (tens of kilometers)
- o Application: Networking, industrial sensing, or high-speed lab testing . For example, 2.5G RJ45 adaptive electrical port modules are available in the \$30-\$100 range, depending on vendor and features . Industrial or outdoor-rated converters may cost more due to ruggedized enclosures and temperature-stable components .

Summary

- o Entry-level SFP modules: ~\$20-\$50
- o Mid-range modules (10G SFP+, QSFP): ~\$100-\$500
- o High-end lab or test modules (Keysight, 60 GHz converters): Quote required, typically \$1,000+ When purchasing, consider compatibility with your network equipment, data rate requirements, and environmental conditions to select the appropriate optical-to-electrical module.

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Outer Material paper Optical to electrical port module photoelectric conversion RJ45 optical fiber module 1.25G optical port to gigabit

An optical module converts electrical signals to light for fast, reliable data transfer in networks, essential for cloud

O2E 1000-1400 Series Optical-to-Electrical Converters For measurements in laboratories and manufacturing, optical signals often

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

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An optical module serves as the backbone of modern fiber-optic communication. Its appearance often resembles a

Use of optical fiber to supply power for an electrical sensor or actuator is advantageous in applications where galvanic

Optical modules are essential components in enterprise networking. According to different rates, encapsulation types

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The SFP module price generally ranges from \$15 to \$30 for standard 1G and 10G third-party transceivers. In contrast, Original

Optical modules are electronic devices used in communication systems to transmit optical signals. These modules

What Is an Optical Module and Its FAQs (V200) Describes what an optical module is and FAQs, including the fundamentals,

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