

RIVO MULTITRADE OPTICAL SYSTEMS

10G Industrial-Grade Optical Module Supply Quotation



Overview

OptiModule — High-Performance Optical Transceivers 10G to 800G. OptiModule by eSeeSky Inc. — Enterprise optical transceivers from 10G to 800G. SFP+, QSFP.

Key Takeaways

The price for 10G industrial-grade optical modules typically ranges from \$10 to \$300 per unit, depending on specifications, transmission distance, and customization options. Pricing Overview

The cost of a 10G SFP+ module varies widely based on factors such as transmission distance, optical technology, and brand. Standard enterprise modules for short-range multimode applications are generally at the lower end of the range, while long-range single-mode or industrial-grade modules with extended temperature tolerance and ruggedized construction can reach the higher end of \$300 or more per unit . Customization, OEM/ODM services, and industrial certifications may further influence pricing .

Technical Specifications

Industrial-grade 10G optical modules are designed for harsh environments and high reliability. Key features include:

- Transmission Distance: Up to 120 km for single-mode modules, with multimode modules typically supporting shorter distances .

- Temperature Tolerance: Standard industrial modules operate from –40 °C to +85 °C, with some options extending to +105 °C .
- Power Consumption: Ultra-low power consumption, often under 0.5W .
- Construction: Compact, all-metal housing for EMI resistance and durability in vibration, humidity, and high-altitude conditions .
- Compatibility: Works with major networking brands including Cisco, HPE, Arista, Huawei, and Juniper .
- Customization: Pin configuration, mounting dimensions, and wavelength options (CWDM/DWDM) can be tailored to user requirements .

Supplier Options

Several manufacturers provide industrial-grade 10G optical modules:

- Sanoc: Offers 10GBase SFP+ transceivers with industrial temperature ranges, long reach, and Taiwan-made quality .
- RS/ Fiberwdm: Provides 10G multimode 850nm 10-pin modules with compact design and high EMI resistance, suitable for medical, power, and high-altitude applications .
- YXFiber Technology: Offers OEM/ODM services, one-year replacement, three-year quality warranty, and lifetime technical support for customized 10G modules .

Market Context

The industrial-grade optical module market is growing, driven by 5G deployment, industrial IoT, and high-speed data requirements in harsh environments. The market is projected to grow from USD 3.78 billion in 2026 to USD 6.15 billion by 2034, reflecting strong demand for reliable 10G and 25G modules .

Recommendation

For a quotation, it is recommended to:

- Specify the module type (single-mode or multimode), transmission distance, and temperature range.
- Indicate whether customization or OEM/ODM services are required.
- Contact multiple suppliers such as Sanoc, Fiberwdm, or YXFiber to compare pricing, lead times, and warranty options. This approach ensures a cost-effective and reliable procurement of industrial-grade 10G optical modules tailored to your application.

Article Content

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