

Cost of manufacturing a 10 Gigabit multimode optical module



Article Overview

The manufacturing cost of a multimode 10G optical module typically ranges from \$10 to \$50 per unit, depending on technology, transmission distance, and production scale.

Price Range and Market Context

The average market price for multimode 10G SFP+ modules, such as SR (Short Range) modules, generally falls at the lower end of the 10G SFP+ spectrum, typically \$10 to \$50 per module for standard enterprise and data center applications . This is because multimode modules are designed for shorter distances (up to 300–400 meters on OM3/OM4 fiber) and use less expensive optical components compared to single-mode or long-range modules . Higher-end modules, such as branded Cisco or tunable DWDM modules, can cost several hundred dollars, but these include additional features like digital optical monitoring, wavelength stability, and extended transmission distances . For multimode modules, the simpler design and shorter distance requirements reduce both component and assembly costs.

Factors Affecting Manufacturing Cost

- **Optical Components:** The laser diode, photodiode, and optical lenses are the most significant contributors to cost. Multimode modules use VCSEL (Vertical-Cavity Surface-Emitting Laser) technology, which is cheaper than single-mode lasers used in long-range modules .
- **Transmission Distance:** Modules designed for longer distances require higher-quality...

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