

Price of Die-cast Optical Modules



Article Overview

Die-cast optical modules typically range from \$2 to \$15 per unit, depending on material, size, and customization.

Overview of Pricing

Die-cast optical modules, used for SFP, XFP, QSFP, and other transceivers, are precision-engineered components manufactured from zinc, aluminum, copper, or magnesium alloys using high-pressure die casting techniques . The price of these modules varies based on several factors:

- **Material:** Zinc alloys are common for their strength and EMI shielding, while aluminum offers lightweight and thermal management benefits. Copper alloys are used for superior conductivity, and magnesium is chosen for high strength-to-weight applications .
- **Customization:** Modules with specific dimensions, tolerances, or integrated features (like thermal paths or EMI shielding) increase production complexity and cost .
- **Volume:** Bulk orders reduce per-unit cost, while small or prototype runs are more expensive due to setup and tooling costs .
- **Manufacturing precision:** CNC machining, tight tolerances (± 0.005 – 0.05 mm), and post-processing like anodizing or plating can add to the price .

Typical Price Range

- **Standard zinc die-cast SFP/XFP housings:** approximately \$2–\$5 per unit for high-volume orders

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This article compares typical cost ranges across speeds and transceiver types, explains why prices vary, and gives practical

Contact Us

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