

Price of 6G optical module for sale



Article Overview

6G optical modules typically cost between \$50 and \$150 per unit, depending on type, distance, and vendor.

Price Ranges by Module Type

- 6G SFP+ LR (Long Reach, 10 km, 1310nm): Available from vendors like FiberMall, these modules are designed for single-mode fiber and can transmit up to 10 km. Prices for such modules generally fall in the \$100-\$150 range depending on brand and purchase volume .
- 6G SFP+ IR (Intermediate Reach, 2 km, 1310nm): Modules like AscentOptics' SFP-6GSM31-02C support 2 km transmission over single-mode fiber and are considered cost-effective, typically priced around \$50-\$100 per unit .

Factors Affecting Cost

- Transmission Distance: Longer reach modules (LR) are more expensive than shorter reach (IR) modules due to higher-quality lasers and optical components.
- Brand and OEM vs. Compatible Modules: Branded OEM modules often carry a 20-40% premium over aftermarket or compatible modules, reflecting warranty, support, and reliability .
- Technology and Materials: Costs are influenced by lasers, photodiodes, silicon chips, and precision manufacturing in cleanroom environments .
- Market Demand and Supply: Legacy modules like 6G SFP+ may fluctuate in price due to lower production volumes and demand for newer high-speed modules (25G, 40G, 100G), which can create temporary scarcity

Article Content

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For more information, pricing, or custom solutions, please contact us:

Website: <https://www.gmarkconstruction.co.za>

Email: sales@gmarkconstruction.co.za

Phone: +31-6-15-38-72-94

Address: Herengracht 456, 1017 BS Amsterdam, Netherlands

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