6G optical module price



Overview

Buy Blackmagic Design 6G SFP Optical Module featuring Standard SFP Cage, LC Fiber Connections, Supports SD, HD, and 4K Resolutions. Review Blackmagic Design ADPT-6GBI/OPT.

Key Takeaways

6G optical modules typically cost between $50 and $150 per unit, depending on type, distance, and vendor. Price Ranges by Module Type6G 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 OE

M 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.

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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.

Practical Considerations

Volume Purchases: Buying in bulk can reduce per-unit cost. Vendor Selection: Ensure modules are tested and certified to meet SFP+ MSA standards and digital diagnostics functions for reliability. Total Cost of Ownership: Consider warranty, support, and replacement ease when comparing prices, as cheaper modules may incur higher operational costs over time.

In summary, expect to pay roughly $50–$150 for a 6G SFP+ optical module, with higher prices for long-reach or branded OEM units, and lower prices for short-reach or compatible aftermarket modules.

Article Content

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1.6T OSFP-XD DR8 MPO-16 Optical Transceiver

FiberMall OSFP-XD-1.6T DR8 transceiver is a high-performance optical module

Blackmagic Design 6G SFP Optical Module

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Market Insights: 800G & 1.6T Silicon Photonics Optical Modules

We offer a comprehensive range of products, including optical modules, DAC, AOC cables, 1.6T InfiniBand XDR silicon photonics transceivers and 800G / 400G Ethernet silicon

6.144G Optical Module 6G Optical Module 2km 1310nm

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SFP-6G31-LR 6G SFP+ LR Transceiver | 1310nm 10km

price may inc or dec based on the RMB/USD rate. The SFP-6G31-LR is a specialized optical transceiver module designed for robust performance in 6Gb/s

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SFP 6G 300M Optical Transceiver | Fiber Optical Module

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6G/8G/10G/16G/32G SFP+ Transceiver Modules | FiberMall

FiberMall SFP+ Transceivers are hot swapping, cost effective modules supporting data rate of 6Gbps/8Gbps/10Gbps/16Gbps/32Gbps and up to 120km transmission.

Blackmagic Design 6G-SDI SFP Optical Module Transceiver

6G optical fiber module that works in SD, HD and Ultra HD for adding optical fiber to your Blackmagic Studio Camera. We can be contacted at any time through eBay messages if you have

Global AI Optical Transceiver Market to Reach US$26

TrendForce''s latest research indicates that the global market for AI-focused optical transceivers has entered a phase of rapid growth, with market

Blackmagic Design 6G SFP Optical Module – Thomann UK

Fibre optic module for Blackmagic Optical Fiber devices Easy mounting in standard SFP slots, Single-mode transmission for particularly long range, Transmits 6G video signals with embedded audio

Toward 6G Optical Fronthaul: A Survey on Enabling Technologies and ...

For that, numerous studies in the literature have explored cost-effective solutions for optical fronthaul, with the ultimate goal of facilitating the deployment of a cost-efficient optical fronthaul for future 6G

Blackmagic Design 6G SFP Optical Module Adapter

The Blackmagic Design 6G SFP Optical Module Adapter is an SFP -compatible transceiver that transmits and receives 6G video signals using standard LC fiber optic cables.

6g optical module, 6g optical module Suppliers and Manufacturers at ...

6G SFP+ BIDI 80km 1490nm/1550nm WDM LC Connector DDM Optical Transceiver sfp+ 6g lr single mode sfp fiber transceiver module $ 550.00 - $ 650.00 Min. Order: 5 boxes 1 yrsCN Supplier

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Optical Transceiver Modules Prices & Specifications

What is Optical Transceiver Modules/SFP? Optical Transceiver Modules/SFP, also called fiber optic transceiver or optical transceiver, is a typically hot-pluggable device used in high-bandwidth data

472579A.101 Nokia FOSH SFP+ 6G OBSAI 300m TDM 850nm

Our compatible 472579A.101 Nokia FOSH SFP+ 6G OBSAI 300m TDM 850nm module is CE/RoHS certified, it meets product safety standards, and is compliant with SFP+ Multi Source

Optical Module Market Analysis and Forecast in 2026

AI computing power has driven explosive growth in the optical module market, with 800G and 1.6T technologies leading the industry transformation.

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

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