Project Quotation Active Optical Module 1G



Overview

SFP Optical Module 1G Project Quotation AITAF provides end-to-end optical communication solutions, structured cabling, ODN, optical modules, fiber testing.

Key Takeaways

1G SFP optical modules are available in SX, LX, and TX variants, with prices ranging from approximately $10 to $50 per unit depending on type, brand, and distance requirements. Module Types and Specifications1000BASE-SX (Short Wavelength): Designed for multimode fiber, supports distances up to 550 meters, ideal for intra-building or campus connections. Uses LC/UPC connectors and supports DDM for monitoring performance.

1000BASE-LX (Long Wavelength): Suitable for single-mode or multimode fiber, supports distances up to 10 km, ideal for inter-building or campus-wide links. 1000BASE-TX (Copper RJ45 Interface): Provides gigabit connectivity over Cat5/5e/6 copper cables, supporting distances up to 100 meters, cost-effective for short-range deployments.

Pricing Overview

Cisco 1G SFP modules: Prices vary by type and model. For example, 1000BASE-SX or LX modules typically range from $20 to $50 per unit, while remanufactured options may be lower. Huawei 1G SFP modules: Available on platforms like Alibaba, generally priced competitively for bulk orders, with CE/RoHS certification ensuring compliance.



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Third-party suppliers (ABPTEL, FS, Network-Switch.com): Offer cost-effective alternatives compatible with Cisco, Huawei, Juniper, Arista, and other major brands, often with industrial-grade options for outdoor or extreme environments.

Additional Considerations

Compatibility: Ensure modules are fully compatible with your existing switches or routers. Most suppliers provide MSA-compliant modules that work seamlessly with major brands. Environmental Requirements: For outdoor or industrial deployments, select modules rated for -40°C to +85°C to prevent link failure.

Bulk Orders: Pricing per unit can decrease significantly for larger quantities. Vendors often provide quotations based on project volume. Warranty and Support: Many suppliers offer 5-year replacement warranties and technical support for network integration.

For a precise quotation, it is recommended to specify the module type (SX, LX, TX), quantity, and required transmission distance, then request a formal quote from suppliers such as ABPTEL, FS, or authorized Cisco/Huawei distributors. This ensures accurate pricing and compatibility for your 1G Active Optical Module project.

Article Content

SFP Optical Module 1G Project Quotation

AITAF provides end-to-end optical communication solutions, structured cabling, ODN, optical modules, fiber testing instruments, data center networks, base station energy, smart city communications, and

1G SFP Transceivers | Mini-GBIC SFP Modules

Click to get your 1GBE transceiver modules from nearby warehouses. 30-Day Free Return. Trusted by 260K+ Enterprise Users.

1000BASE SFP (mini-GBIC) Transceivers

FS Gigabit SFP module solutions provide fibre and copper connections up to 160km, includes 1000BASE-SX, 1000BASE-LX/LH, 1000BASE-EX, 1000BASE-ZX,

1G SFP Optical Transceiver Modules | Solid Optics

The options may be chosen on the product page. 1G SFP optical transceiver modules for multi-mode and single-mode in distances ranging from 300 meters up to 80km with a limited lifetime warranty.

Professional Active Optical Cable (AOC) Manufacturer

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After working with many suppliers, we found that this company''s optical modules not only have excellent performance, but also have batch-to-batch consistency far

Arista Optics Modules and Cables

All interface speeds, from 1G to 400GE have connectivity options that include Direct Attach copper Cables (DACs), Active Optical Cables (AOCs), multi-mode fiber and single-mode fiber transceivers.

Optical Transceiver Pricing: Cost Ranges by Speed and Type

See practical price ranges for 1G–100G optical transceivers, DAC/AOC options, and why cost varies by speed, reach and technology — buying tips included.

1G SFP Optical Transceivers | SX, LX, TX Modules

Discover reliable and versatile 1G SFP optical transceivers fully compatible with Cisco, Huawei, Juniper, Arista, and more. Choose from SX, LX, and TX modules.

10G/1G Optics

Juniper''s portfolio of qualified 10G and 1G optical transceivers are low-cost multipurpose modules available in footprint-optimized form factors for deployment across ACX, EX, MX, PTX, and QFX

SFP 1G LR Market Analysis and Pricing Trends Guide

Explore SFP 1G LR market trends, pricing factors, compatibility insights, and cost optimization strategies for enterprise optical networks.

Active Optical Module Market 2025

Active Optical Module Market was valued at 5916 million in 2024 and is projected to reach US$ 15140 million by 2032, at a CAGR of 14.7%

800G Client Optics in the Data Center

When hyperscale data center operators start deploying a new generation of client optics, they immediately require massive volumes of optical modules to build out switching fabric and router

10G Optical Module Selection Guide: LRM,SR,LR,ER,ZR

The following are several popular 10G SFP+ dual-fiber optical modules from ETU-LINK: The selection of 10G SFP+ dual-fiber optical modules is a systematic project that requires

1G SFP Modules: A Deep Dive into Specs & Types

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Learn how to choose and optimize 1G SFP modules. Compare specs, fiber vs copper types, troubleshooting tips, and best practices for reliable networks.

Optical Modules Market Research Report 2034

Optical Modules Market Outlook 2025-2034 The global optical modules market was valued at $14.8 billion in 2025 and is projected to reach $39.6 billion by 2034, advancing at a compound annual

Cisco Optics | Transform Your Network

Get the highest quality, performance-leading optical transceivers for any network architecture. Find the transceiver model to fit your network.

Beyond Chips: Unveiling the Future of the Global Silicon Photonics ...

SemiVision Research has released an updated version of the optical module supply chain analysis. The new report primarily categorizes optical modules based on a scale-up and scale

FiberMall''s 1.6T Optical Module Roadmap

We want to introduce FiberMall''s roadmap for 800G, 1.6T, and 3.2T optical modules. The evolution trend of data center switching chips is as follows: a rapid

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

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