Price of Single-Mode Dual-Core Optical Module



Overview

FTLF1419P1BTL Gigabit Single-Mode Dual-core Optical Module 1Found a lower price?

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Key Takeaways

Single-Mode Dual-Core Optical Modules typically range from $30 to $200 per module, depending on speed, distance, and vendor. OverviewSingle-Mode Dual-Core optical modules are designed for long-distance fiber optic transmission using two fiber cores, which allows simultaneous bidirectional data transfer or redundancy. They are commonly available in SFP, SFP+, and QSFP form factors, supporting speeds from 1Gbps to 100Gbps.

Single-mode fibers have a smaller core, enabling light to travel in a straight path with minimal signal loss, making them ideal for telecommunications and data center backbone networks.

Typical Price Ranges1

G SFP Single-

Mode Dual-Core Modules: Around $30–$50 per module for standard 1310nm, 20 km reach modules. 10G SFP+ Single-Mode Dual-Core Modules: Typically $80–$150, depending on distance (10–40 km) and vendor. 25G/40G QSFP+ or QSFP28 Single-Mode Dual-Core Modules: Prices can range from $150–$200+, especially for long-haul or DWDM-compatible modules.

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Factors Affecting Price

Data Rate: Higher-speed modules (10G, 25G, 40G, 100G) cost more due to advanced electronics and tighter tolerances. Distance: Modules supporting longer distances (20 km, 40 km, 80 km, or DWDM) are more expensive. Vendor and Brand: OEM modules from Cisco, Juniper, or Arista are typically 2–3 times more expensive than third-party compatible modules.

Features: Modules with Digital Diagnostic Monitoring (DDM), low power consumption, or enhanced temperature tolerance may increase cost.

Where to Buy

Amazon: Offers 1. 25G–10G SFP single-mode modules with dual LC connectors, priced around $30–$150 depending on speed and distance. Mouser Electronics: Stocks single-mode 1310 nm transceivers with datasheets and inventory, suitable for enterprise and industrial applications.

FS.com: Provides 10G SFP+ modules with global shipping and warranty options. In summary, expect to pay $30–$200 per Single-Mode Dual-Core optical module, with the exact price depending on speed, distance, and vendor. For bulk purchases or high-speed modules, contacting suppliers directly for quotes is recommended.

Article Content

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The Key Differences Between 1-core, 2-core, Single Mode, and Multi

Single Mode fibers have a smaller core, allowing light to travel in a single, straight path, ideal for long distances with less signal loss. Multi-mode fibers have a larger core, allowing multiple

Single Mode Single Core SFP Transceiver

Discover single mode single core SFP transceivers with 1.25G speed, SC/LC connectors, up to 80km reach, CE certified, ideal for FTTX and data centers.

Ubiquiti 10Gbps Bidirectional Single-Mode Optical

The 10 Gbps Bidirectional Single-Mode Optical Module, model UACC-OM-SM-10G-S-2, manufactured by Ubiquiti, is an advanced optical transceiver designed for

1.25G SFP Module Transceiver, 1000Base-LX,1310nm SMF,Dual LC

1.25G SFP MODULE- 1.25Gbps SFP Optical Transceiver, Dual LC single-mode fiber, 1310nm, up to 20km super long distance transmission for POE switch with SFP uplinks.

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100G Optical Module: How to Choose Between SR4,

Transmission Mode: Single-mode Fiber Wavelength: Operates at 1310nm. Interface Type: Features an MPO-12 (8-core) connector. Technology:

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Cisco 10GBASE SFP+ Modules Data Sheet

Product overview The Cisco® 10GBASE SFP+ modules (Figure 1) give you a wide variety of 10 Gigabit Ethernet connectivity options for data center, enterprise wiring closet, and service provider transport

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The Key Differences Between 1-core, 2-core, Single

For Shorter Distances or LANs: Multi-mode (MM) modules work best here—choose 1-core MM for basic short-distance networks, and 2-core MM if

The Key Differences Between 1-core, 2-core, Single Mode, and

Understanding 1-core, 2-core, Single Mode, and Multi-mode optical modules helps you design efficient networks. Whether you''re working on long-distance telecom systems or setting up

100GBASE QSFP-100G Modules Data Sheet

The Cisco® 100GBASE Quad Small Form-Factor Pluggable (QSFP) portfolio offers customers a wide variety of high-density and low-power 100

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

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