

How much is a 1550 optical module



Article Overview

A 1550 nm optical module typically costs between \$100 and \$500, depending on type, distance, and vendor.

Price Range and Factors

The cost of a 1550 nm optical module varies based on module type (SFP, XFP, or optical amplifier), transmission distance, and brand. For example:

- 1G SFP 1550 nm modules for long-distance links (40–120 km) are generally priced around \$100–\$200 per module, suitable for legacy networks and carrier infrastructure .
- 10G XFP 1550 nm modules for extended distances (up to 40 km) can cost \$300–\$500, reflecting higher performance and compliance with 10G Ethernet standards .
- Semiconductor optical amplifiers (SOA) at 1550 nm may be more expensive due to additional features like fiber-to-fiber gain, TEC, and hermetic packaging, often exceeding \$400–\$600 depending on specifications .

Key Considerations

- **Transmission Distance:** Longer distances require higher-quality modules with better optical budgets, which increases cost .
- **Module Type:** SFP modules are generally cheaper than XFP or optical amplifiers due to lower data rates and simpler design .

Article Content

What is the difference between 1310nm and 1550nm fiber?

It is important to note that the latest advancements in fiber optic technology have significantly reduced the differences between

Understanding the Cisco SFP-10G-ZR: A Reliable 10G Optical

Discover the Cisco SFP-10G-ZR, a robust 10G optical transceiver module designed for SMF 1550nm applications.

Semiconductor Optical Amplifier, 1450-1600nm - Optilab

The Optilab SOA-1550-M is a semiconductor optical amplifier with high fiber-to-fiber gain, designed to be used in general

What Is a 1550nm Optical Transceiver and How Does It

Discover how a 1550 nm optical transceiver converts electrical signals into light for long

How Wavelength (850/1310/1550nm) Affects Optic

Learn how 850 nm, 1310 nm and 1550 nm wavelengths change transceiver reach. Compare attenuation,

SFP-10G-ER 1550nm 40km DDM Optical Transceiver

What Is SFP-10G-ER 1550nm 40km DDM Optical Transceiver Module? SFP-10G-ER 1550nm 40km DDM Optical Transceiver

What is difference between 1310nm and 1550nm?

Can optical modules with wavelengths of 1310nm and 1550nm be connected? Taking into account the different transmission loss and

1G 1550nm 80km SFP ZX Transceiver Module

This Generic SFP-1G-ZX compatible SFP module supports 1000BASE-ZX Gigabit Ethernet connectivity and 1G fiber

Semiconductor Optical Amplifier | TODAY | 750-1550 nm | SOA optical ...

4 SOA models from 750 to 1550 nm. The "butterfly" modules are offered as stock items or mounted on a high performance CW or

10G SFP+ ER Optical Transceiver | Wholesale Transceiver

Buy 10G SFP+ ER 1550 nm optical transceiver for up to 40 km single-mode links. DWDM-compatible, DDM diagnostics, RoHS &

1550nm Internal Modulation Optical Transmitter

Softel has been engaged in 1550nm Internal Modulation Optical Transmitter for several years, and this 1550nm Transmitter is used

Choice of Wavelength for RF over Fiber – 1310nm vs 1550nm

RF over fiber uses infra-red lasers because attenuation in the glass fiber is much lower in the infra-red region than at other wavelengths.

Semiconductor Optical Amplifier, 1450-1600nm – Optilab

The SOA-1550-M can be ordered with Single Mode (SM) with this particular SOA module having

LD-1550-21B Laser Diode

The LD-1550-21B Fiber Coupled Laser Diode consists of Fabry-Perot lasers, having a fiber pigtail precisely attached for optimum

Semiconductor Optical Amplifier, 1550nm, Rackmount – Optilab

Optilab SOA has 4 different operational wavelength :1310 nm, 1480 nm, 1550 nm, 1600 nm. 3 different housing versions: module,

Insertion Loss Troubleshooting Tip: Singlemode 1310 vs. 1550

In Singlemode cable assembly, the 2 wavelengths used for Insertion Loss testing are 1310nm & 1550nm. Read the

LPM1550-05E Laser Diode Module

The LPM1550-05E Laser Diode Module is an economical choice for applications that only need laser diode modules with simple,

ORION 1550 nm Laser Module

The ORION 1550 nm from Redfern Integrated Optics (RIO) is a Narrow Linewidth Laser Module that

Types of JUNPU 1550 Optical Transmitter

The 1550 Optical Transmitter is a device that converts electrical signals into optical signals, allowing for long-distance transmission of

10G SFP+ ZR 1550nm Optical Transceiver Module | FiberMall

The SFP+ Module is compliant with SFF 8431, SFF-8432, and IEEE 802.3ae 10GBASE-ZR. Digital diagnostics functions are

Hanutech 1.25G DDM Single Mode Duplex 1550nm SFP Transceiver Module ...

Hanutech Transceiver is a high performance, cost effective module which have a duplex LC optics interface. Standard AC coupled

SFP-10G-ZR 1550nm 80KM DOM Optical Transceiver

Features SFP-10G-ZR 1550nm 80km Dom Optical Transceiver Module
What Is An (Fiber) Optical Transceiver?
How to Classify Optical Transceivers?
How to Choose The Right Optical Module?
Modules Compatibility
Select The Original One Or Compatible One According to The Budget Situation
An optical transceiver module is the core part of optical communication devices. It uses fiber optical technology to send and receive data through completing the process of optical signal – electrical signal / electrical signal – optical signal conversion. An optical transceiver module consists of two parts: the receiving part and the transmitting ...
See more on [mefiber](#)
[optic 4,8/5\(6\)](#)
[Optcore](#)

155Mbps 1550nm 80km SFP Transceiver Module - Optcore

This SFP module provides 80km transmission distance over single-mode fiber at a nominal wavelength of 1550nm. The transmitter

1550 nm Optical Detectors & Sensors – Mouser

Mouser offers inventory, pricing, & datasheets for 1550 nm Optical Detectors & Sensors.

1550nm Acousto Optic Modulator Module

1550nm Acousto Optic Modulator Module (AOM) is a kind of external optical modulator with RF driver integrated inside, it's built with

ABPTEL 10G-SFP-ZR | 80km 1550nm | Transceiver Supplier | ABPTEL

The ABPTEL 10G-SFP-ZR is a long-range 10G SFP+ optical transceiver designed for distances up to 80km over SMF. Featuring

Fiber Optic Wavelengths Explained: 850 vs 1310 vs 1550 nm

Unveiling Fiber Optic Wavelengths: Why 850, 1310, 1550 nm — and What Lies Beyond Light in optical fiber travels in

Singlemode Transceivers 1550 nm Fiber Optic Transmitters,

Singlemode Transceivers 1550 nm Fiber Optic Transmitters, Receivers, Transceivers are available at Mouser Electronics. Mouser

1550nm SFP Transceiver Module | Long Distance Fiber Optics

Buy 1550nm SFP transceiver modules for long-distance fiber networks. Compare types, distances, compatibility, and pricing to

Contact Us

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