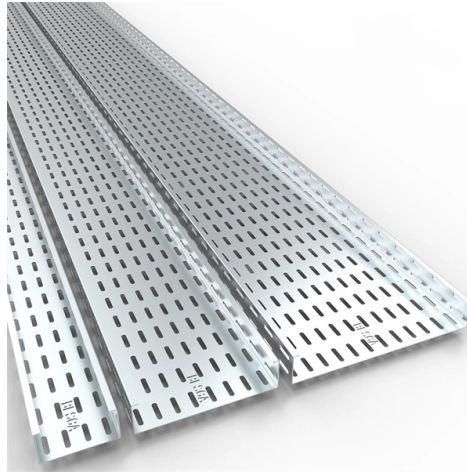


1550 Single-Mode Optical Module



Article Overview

A 1550nm single-mode optical module is a fiber-optic transceiver designed for long-distance data transmission over single-mode fiber, typically in SFP or SFP+ form factors.

Overview

A 1550nm single-mode optical module converts electrical signals into light at a wavelength of 1550 nanometers for transmission over single-mode fiber (SMF) and then converts the light back into electrical signals at the receiving end. These modules are widely used in metro, WAN, and long-haul networks due to their ability to transmit data over long distances, often ranging from 40 km to over 100 km depending on the module type.

Key Features

- **Form Factor:** Commonly available in SFP, SFP+, or BiDi SFP formats for easy integration into network switches, routers, or media converters.
- **Data Rate:** Typically supports 1 Gbps (1000BASE-ZX), with some advanced modules supporting 10 Gbps or higher.
- **Transmission Distance:** Standard 1550nm modules can reach up to 80 km, while specialized long-reach modules may exceed 100 km.
- **Laser Type:** Uses DFB, EML, or FP lasers for stable and efficient light emission.
- **Connector Type:** Usually LC duplex or LC/UPC, with BiDi modules using a single fiber for bidirectional transmission (TX 1550nm / RX 1310nm).

Article Content

SFP 1.25G Tx1490/Rx1550 80Km LC Transceiver

The module data link up to 80km in 9/125um Single-mode fiber. This compatible optical transceiver meets the Small Form Pluggable

SINGLE-MODE MODULE DS-1.25G-20-1550 Hikvision

Optical modules complying with SFP (Small Form-factor Pluggable) standard are devices converting electrical signal to the optical

SFP Optical Module 155M Single Optical Fiber 20km

This is a standard SFP optical module. It uses a single mode optical fiber and the speed rate can up to 155Mbps, transmission

SFP 1.25G 1550nm Single mode Optical Transceiver

Temperature Metal enclosure, for lower EMI RoHS compliant and lead-free Single +3.3V power supply

SFP-10G-ZR Compatible | 10GBASE-ZR SFP+ Transceiver (1550nm

The SFP-10G-ZR Compatible transceiver is a high-performance optical module designed for long-haul 10 Gigabit Ethernet

SFP+ 10 Gigabit Fiber Module

Description Get the most out of your network equipment with this 10 Gigabit 10BaseG-ER SFP+ Fiber Modules from Networx®. SFP

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

10G XFP ER 1550nm 40km Optical Transceiver | AscentOptics

10G XFP ER optical transceiver of AscentOptics can use for 10G Ethernet and supports a distance of up to 40km over single-mode

SFP 1.25G 1550nm/1310nm Single mode Optical Transceiver

8. Digital Diagnostics / Digital Optical Monitoring The transceiver provides serial ID memory contents and diagnostic information

SFP BiDi 1000BASE-BX 1.25Gbps Tx1310nm/Rx1550nm SC SMF

BiDi single-mode SFP optical module, 1Gb speed, SC simplex connector, 20 km range, laser Tx:1310nm Rx:1550nm. Designed to

1550nm Single Mode Fibers & Polarization Maintaining Fibers

These 1550nm single mode fibers are available in 250um bare fiber, 900um tight buffer, 3mm jacketed cable, and multi-strand high

1G SFP EZX, 1550nm, 160km, DDM, LC/UPC Duplex,

The Miljet MJ-SFPGE-EZX-160, SFP 1000BASE-EZX transceiver uses a longer wavelength 1550nm laser

1550nm Ultra-narrow Linewidth Single-Frequency Laser module

1. Features — Ultra-narrow linewidth (<3 kHz) — Central wavelength 1550 nm, or other C& L-band wavelengths — High optical

1550nm SFP Transceiver Module | Long Distance Fiber Optics

What Is a 1550nm SFP Transceiver? A 1550nm SFP transceiver is a single-mode optical module designed for long-distance fiber

SFP-1100-WB SFP+ 10G BiDirectional Optical Module Single-Strand

SFP-1100-WB must be paired with the SFP-1100-WA model to have an operational link. The BiDirectional optical transceivers offer a

Technical Characteristics Of 10G Optical Modules With 1310nm And

There are three wavelength windows for 10G optical module communication applications, namely the 850nm window,

What Is a 1550nm Optical Transceiver and How Does It

Operating at a wavelength near 1550 nanometers, it enables high-speed data transmission

SFP+ 10G ER transceiver singlemode 1550nm 40Km, Cisco compatible

The SFP-1040-ER is a long haul single-mode 10G SFP+ optical module compatible with the 10GBase-ER specifications. It uses a

1G EZX 1550nm SFP Optical Transceiver | Cutting-Edge Optical ...

1G-1550nm-EZX-SFP-Transceiver SFP 1G EZX uses single mode fiber and wavelength of 1550nm. It's transmission distance up to

MikroTik · S-3553LC20D

S-35/53LC20D is a pair of SFP transceivers, the S-35LC20D is a 1.25G Single Mode optical SFP module with a LC connector,

10G CWDM Single-Mode Optical Module

SFP+ transceiver for CWDM that supports 10G connections up to 20 km using single-mode fiber with a duplex LC UPC connector.

1000BASE-ZX SFP 1550nm 80km Transceiver Datasheet | FS

1G SFP transceiver module is individually tested on corresponding equipment such as Cisco, Arista, Juniper, Dell, Brocade and other

SFP BiDi 1000BASE-BX 1.25Gbps Tx1550nm/

A versatile SFP module that works reliably over distances of up to 40 kilometers as well as very short, 1

Singlemode 1550 nm Fiber Optic Transmitters, Receivers, Transceivers

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

SimpliFiber Pro Multimode and Singlemode Sources

SimpliFiber Pro Multimode and Singlemode Sources When combined with a SimpliFiber Pro optical power meter, these sources

The Difference Between Single-mode and Multi-mode Optical Modules

When using single-mode optical modules, you need to pay attention to the cleanliness of the optical fiber interface to avoid dust and

1.25G SFP Module, Single Mode SC, TX1550nm, DDM 10KM

1.25G SFP Module, SC Single-mode Fiber Optic Cable Connector, 1000 Base-BX TX 1550nm / RX 1330nm Single-mode, DDM

Contact Us

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

Website: <https://jrsekwele.co.za>

Email: info@jrsekwele.co.za

Phone: +31-20-794-2536

Address: Herengracht 47, 1015 BB Amsterdam, Netherlands

This document is for informational purposes only. Specifications subject to change without notice.

