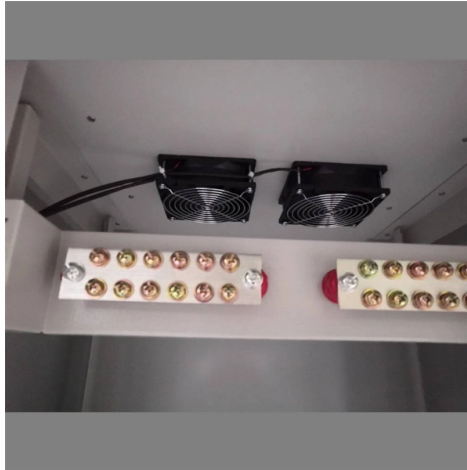


The 1550 optical module needs to be paired with the 1310



Overview

Use either the -I1 or -L2, intermediate reach and long reach, respectively, as they are both 1310nm optics. Most receiver modules can accept signals at either 1310 or 1550nm wavelengths (although the vendor typically will not test at both). The three dominant SFP wavelength categories—850 nm, 1310 nm, and 1550 nm—are not interchangeable. Each corresponds to specific fiber types, reach classes, and application environments such as short-reach data center links, campus backbones, metropolitan aggregation, or long-haul transmission. Is it possible that 15454E-MRC-I-12 with SFP ONS-SI-155-L2 installed connects to another device which one's Emission wavelength is 1310nm?

If possible, how to do it?

Thanks. 01-19-2008 02:13 AM I found a document from. But there are benefits to making it standard practice to test ALL fiberoptic cable assemblies at both 1310 and 1550: the Insertion Loss variation between 1310nm and 1550nm test wavelengths can be very helpful in identifying serious problems with the product and / or process. One helpful tip for. The transceiver is divided into five sections: the LD driver, the limiting amplifier, the digital diagnostic monitor, the 1310nm FP laser (the 1550nm DFB laser), and the PIN/TIA. The module data link extends up to 10km in 9/125um single-mode fiber. They are bidirectional, allowing any port to be used as an input (refer to the 2x2 Coupling. A BiDi SFP is a specialized optical transceiver that enables bidirectional communication over a single strand of optical fiber. Unlike standard duplex SFPs that require two fibers—one for transmitting (TX) and one for receiving (RX)—BiDi modules integrate a WDM coupler to separate the wavelengths.

Article Content

Dec 15, 2025

Single-Mode vs. Multimode Optical Transceivers: Three Major

In contrast, multimode optical transceivers are paired with multimode optical cables and are suitable for shorter distances, usually less than 2 km. 2. Operating Wavelengths and Optical

Dec 12, 2025

What is difference between 1310nm and 1550nm?

A connector, or an entire product design, showing a significantly higher Insertion Loss at 1310 than at 1550 indicates a likely problem in core-to-core alignment

Jun 06, 2026

Fiber Optic Wavelengths Explained: 1310nm vs 1550nm

Fiber wavelengths at 1310nm and 1550nm minimize signal loss and dispersion, enabling efficient long-distance data

May 09, 2026

SFP 1.25G Tx1310/Rx1550 10Km LC Transceiver

When using, the other end device needs to use a module with a wavelength of

Dec 04, 2025

1310nm vs. 1550nm Lasers: Understanding the

Lasers play a crucial role in modern communication systems. They concentrate light into a narrow, coherent beam, allowing for efficient transmission

Aug 04, 2025

What is single mode sfp module?

These modules are designed to work with single-mode fiber optic cables, which facilitate high-speed data transfer over extended distances. In this article, we'll delve into what single mode SFP modules

Apr 16, 2026

What Is 1310/1550nm Fused WDM (1×2 & 2×2)? Full

Posted on April 7, 2025 In today's fast-growing optical communication industry, boosting data transmission efficiency is more important than ever. One key

Jul 13, 2025

Insertion Loss Troubleshooting Tip: Singlemode 1310 vs.

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

Aug 21, 2025

Technical Characteristics Of 10G Optical Modules With

There are three wavelength windows for 10G optical module communication applications, namely the 850nm window, 1310nm window, and

Apr 07, 2026

What is the difference between 1310 and 1550

The wavelengths 1310 nm and 1550 nm refer to specific ranges within the electromagnetic spectrum used in optical fiber communication. The primary

Jul 03, 2025

Choice of Wavelength for RF over Fiber – 1310nm vs

Lasers operating at 1550nm are more difficult to manufacture than those at 1310nm and consequently are more expensive. Therefore shorter links (up to 10km) would

Oct 04, 2025

Laser Combiner 1310/1550

1550 nm Modules using 1310 and 1550 nm DFB lasers may be specified . Pulsed lasers, suitable for OTDR applications are also available at both 1310 and 1550 nm. The PD-LD product incorporates

Jan 27, 2026

1550nm connect to 1310nm?

Most receiver modules can accept signals at either 1310 or 1550nm wavelengths (although the vendor typically will not test at both). That said, it is best practice to match the optics at

Nov 05, 2025

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

Choosing the right optical wavelength is one of the quickest ways to determine how far a Transceiver can reliably carry data. Engineers decide among 850 nm, 1310

Mar 29, 2026

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

The difference between 1310nm and 1550nm SFP (Small Form-factor Pluggable) transceivers lies in the wavelength at which they operate and the distances over which they can

Mar 25, 2026

What is difference between 1310nm and 1550nm?

In standard Singlemode cable assembly, the two wavelengths used for Insertion Loss testing are 1310nm and 1550nm. All Singlemode fibers work very similarly in

Aug 08, 2025

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

When connecting optical modules with different interfaces, you also need to pay attention to the type and specifications of the optical fiber. Generally speaking, multimode and single-mode

Jul 07, 2025

OTDR-1500 PROFESSIONAL MULTI-FUNCTION OTDR 1310/1550

INTRODUCTION The OTDR-1500 Professional Multi-Function OTDR is a multifunctional test device designed for FTTx networks. It is primarily used to measure the length, transmission loss, joint loss

Oct 06, 2025

1310/1550 nm Dual Window, Single Mode Fiber Optic Couplers

A sample test report for our 1310/1550 nm 2x2 SM couplers can be viewed here. Our couplers have undergone extensive testing to ensure they meet or surpass Telcordia requirements; please see the

Mar 15, 2026

SFP Wavelength Guide: 850nm vs. 1310nm vs. 1550nm

For BiDi SFPs, Tx and Rx wavelengths must be properly paired (e.g., 1310 nm TX / 1550 nm RX on one side, reversed on the other). Double-check

Aug 18, 2025

BiDi SFP: The Complete Guide to Bidirectional SFP Transceivers and ...

Learn everything about BiDi SFP and BiDi fiber, including working principles, 1310nm/1550nm wavelength design, single fiber advantages, wiring diagrams, and key differences

Feb 06, 2026

Small Form-factor Pluggable

Small Form-factor Pluggable Small Form-factor Pluggable connected to a pair of fiber-optic cables Small Form-factor Pluggable (SFP) is a compact, hot-pluggable

Nov 13, 2025

What is the difference between 1310 and 1550 SFP?

The numbers 1310 and 1550 refer to the wavelength of light used in the optical transmitters of SFP (Small Form-factor Pluggable) modules. These wavelengths are commonly associated with fiber

Aug 18, 2025

Everything You Need to Know About 1310nm Optical

1310nm optical module offers reliable, cost-effective data transmission for metro, campus, and enterprise networks. Compare performance, reach, and

Jun 30, 2025

SFP Wavelength Guide: 850nm vs. 1310nm vs. 1550nm

SFP wavelength refers to the nominal center wavelength of the laser transmitter inside a Small Form-factor Pluggable (SFP) optical transceiver. It

Dec 29, 2025

TO1310-TO1550 Series Internal Modulation Optical Transmitter ...

Application 1310nm/1550nm optical fiber transmission network; Build CATV secondary network signal transmission; Cooperate with multi-port high-power optical amplifier to build the fiber-to-the-home

Jun 04, 2026

OTDR Wavelength : Complete Information

OTDR Wavelength : OTDR Wavelength 850 nm, 1300 nm, 1310 nm, 1550 nm and 1625 nm detail information will be provided by this article. The behavior of an optical system is directly

Sep 18, 2025

1550nm connect to 1310nm?

Use either the -I1 or -L2, intermediate reach and long reach, respectively, as they are both 1310nm optics. Most receiver modules can accept signals at either 1310 or 1550nm

Apr 05, 2026

Technical Characteristics Of 10G Optical Modules With

1. Optical communication wavelengths 2. 1310nm vs 1550nm 2.1 Attenuation characteristics 2.2 Dispersion 3. 10 Gigabit 1310 wavelength and 1550

Contact Us

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

Website: <https://www.moletenare-ew.co.za>

Email: info@moletenare-ew.co.za

Phone: +86 138 1658 3346

Address: Ningbo, China

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

