

50G Optical Module Industry Standard



Overview

This transceiver is a Class 1 laser product. It complies with IEC-60825 and FDA 21 CFR 1040. The optical ports of the module need to be terminated with an optical connector or a. The Cisco ® 50GBASE SFP56 (Small Form-Factor Pluggable) portfolio offers customers a wide variety of high-density and low-power 50G and 25G Gigabit Ethernet connectivity options for data center and high-performance computing network applications. The 50G Modules are based on SFP56 form factor. ●. The 50G SFP56 is an optical module used in fiber optic communication. It is capable of providing a transmission rate of 50Gbps on a single wavelength and is widely used in network devices due to its compact size and high efficiency. From submarine cable infrastructure to internal data center interconnects, modern networks increasingly depend on dense. The fronthaul network has an important impact on the transmission performance and quality of next-generation 5G and even 6G networks and is one of the hot spots in the research of new network and bearer technologies for mobile communications. Under the massive deployment of global C-RAN networking.

Article Content

Sep 28, 2025

Explore the Features and Applications of FS 50G SFP56 Module

Additionally, the FS 50G SFP56 optical module adheres to industry standards such as SFF-8402, SFF-8472, and OIF-CEI-04.0, and is certified with Class 1 FDA laser safety, ensuring its ...

Jul 09, 2026

QSFP28 50G ZR2 | HiSilicon Optoelectronics

This module contains 2-lane optical transmitter, 2-lane optical receiver and module management block including 2 wire serial interfaces. The optical signals are multiplexed to a single-mode fiber through ...

Apr 26, 2026

50G SFP56 Transceivers | 50Gbps PAM4 Modules | EDGE Optical ...

Our SFP56 transceiver portfolio is fully compliant to industry standards and can work in 80% of networking equipment, where is not implemented special algorithm for protection against third party ...

Dec 12, 2025

50G SFP56 Active Optical Cables Datasheets | FiberStamp

The FiberStamp 50G SFP56 Active Optical Cable is a single-Channel Active Optical Cable for 26.5625GBd PAM4 Ethernet Applications. It is a high performance module for short-range data ...

Oct 07, 2025

4 Types of 50G SFP56 Transceivers Introduction

The international standard of 50G SFP56 dual-fiber bidirectional optical module for forward transmission has not yet been released, and optical module manufacturers are in the ...

Mar 14, 2026

Fiberworks Data Sheet

The module is fully compliant with all SFP56 related MSA standards and Digital Diagnostic functions are available through an I2C interface. SFP56-50G-LR complies with IEEE 802.3 and 50Gbase-LR.

Jul 19, 2026

Cisco 50GBASE SFP56 Modules Data Sheet

The Cisco® 50GBASE SFP56 (Small Form-Factor Pluggable) portfolio offers customers a wide variety of high-density and low-power 50G and 25G Gigabit Ethernet connectivity options for ...

Jan 16, 2026

White Paper on Survey of Optical Modules in Wireless Fronthaul

The current standards for mainstream 50G fronthaul optical modules in the industry still lack the rationality of performance parameters and compatibility between generations, and these ...

Jul 25, 2025

50G QSFP28/SFP56 Cable and Transceiver Modules Data Sheet

The QSFP28-ER-50G Module supports up to 40km link lengths over OS2 SMF via a LC duplex connector. The built-in digital diagnostics monitoring (DDM) allows access to real-time ...

Jul 19, 2026

10G, 25G, 50G and 100G Optical Transceivers and Ethernet Standards

This article continues the series on legacy optical transmission standards and legacy transceivers, moving from older formats to modern high-speed Ethernet. It is written for engineers and network ...

Contact Us

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