# 50G Optical Module Single Mode



## Overview

Supporting 40km transmission over single-mode fiber at 1311nm wavelength, this 50G SFP56 module delivers impressive 17 dB link budget with PAM4 modulation from 10. 3cd compliant with LC connectors, ideal for service provider networks. 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. To accommodate an increasing spectrum of applications, Arista offers a wide choice. On the premise of retaining the existing number of ports and saving fiber resources, FiberMall has initiated research on next-generation 5G forwarding optical module technology with 50Gb/s and higher speed. 50G SFP56 The 50G SFP56 optical transceiver module includes the 50G SFP56 dual-fiber. RTXM300-3xx 50G PON OLT QSFP28 transceiver modules are designed for use in 50G PON OLT links on up to 20km of single mode fiber. 1342±2nm EML transmitter and 1300±10nm APD receiver. OM9380ZS100 is designed for 80 km optical communication applications. This module contains 2-lane optical transmitter, 2-lane optical receiver and module management block including 2 wire serial interfaces.

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## Article Content

Arista Optics Modules and Cables

Each module is optimized for different media and reach (ranging from 0.5 meters to 80 kilometers). All interface speeds, from 1G to 400GE have connectivity options that include Direct Attach copper

4 Types of 50G SFP56 Transceivers Introduction

The 50G SFP56 optical transceiver module includes the 50G SFP56 dual-fiber bidirectional module and the single-fiber (BiDi) module.

Optical Optical Modules for 5G Networks

The demand for 50G optical modules mainly comes from the construction of 5G bearer network. If 5G bearer network is widely adopted, its

Understanding Pluggable Optical Modules

Therefore, optical modules are also classified into single-mode and multimode modules to support different optical fibers. Single-mode optical modules are used with single-mode fibers.

What Is an SFP Module and How to Choose It? (2026 Updated)

□□ What Is an SFP Module? We''ve just released our SFP Module 2026 Ultimate Guide, featuring deep-dives into 25G/50G speeds, EEPROM coding secrets, and DDM monitoring. In

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