

100Mbps Optical Module Specifications



Summary of Content

100Mbps optical modules, typically 100BASE-FX SFP transceivers, provide Fast Ethernet connectivity over fiber with 1310nm wavelength, supporting distances from 100m to 10km depending on fiber type.

Overview

A 100BASE-FX SFP is a hot-swappable optical transceiver that converts electrical Ethernet signals into optical signals for fiber networks, enabling 100Mbps Fast Ethernet transmission over multimode or single-mode fiber . These modules are widely used in industrial, enterprise, and legacy networks where EMI immunity, longer reach, and reliability are critical .

Key Specifications

- Data Rate: 100Mbps (Fast Ethernet)
- Fiber Type:
 - Multimode Fiber (MMF): Short-range links, typically up to 2km
 - Single-mode Fiber (SMF): Long-range links, up to 10km or more
- Wavelength: 1310nm for standard 100BASE-FX modules
- Connector Type: LC for fiber modules; RJ-45 for copper 100BASE-TX SFPs
- Duplex: Full-duplex operation is standard; dual-fiber (Tx/Rx) is common
- Form Factor: Small Form-factor Pluggable (SFP), hot-swappable
- Power Consumption: Low, suitable for both indoor and industrial deployments

Article Content

SFP-MM Multi-mode 100Mbps Optical Module

SFP-MM Multi-mode 100Mbps Optical Module Multi-mode 1310nm 2km 100Mbps SFP Optical Transceiver 100Mbps 100Base-MM

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

A Brief Discussion on 100G Optical Modules in Data Centers

100G optical module standard organization Before we start sharing the optical module standards, let's first

Complete Guide to Choosing the Right 100M Optical Transceiver

Choose the right 100M optical transceiver by checking compatibility, fiber type, wavelength, distance, data rate,

Optical Transceiver Datasheet Guide: SFP Specs & PDF Downloads

Learn how to read an optical transceiver datasheet, understand SFP specifications, compare 1G/10G modules, and choose

100GBASE QSFP-100G Modules Data Sheet

Each Cisco QSFP 100-Gbps SR1.2 BiDi transceiver consists of two transmit and receive

Everything You Need to Know About Optical Modules

Optical modules are electronic devices used in communication systems to transmit optical signals. These modules

SFP-SM Single-mode 100Mbps Optical Module

SFP-SM Specifications 100Mbps 100Base-SM Ethernet Compatible with RoHS Duplex LC connector RoHS compliant and Lead Free

100Mbps SFP Fiber Modules for Industrial Networks | Westward Sales

Industrial 100Mbps SFP Modules for Fiber Network Deployment Building a fiber optic network means structuring powerful data

Introduction to Common 100G Optical Module Types, Advantages,

By understanding the different types of 100G optical modules available, their advantages, and application scenarios, organizations

Cisco Optics | Transform Your Network

Get the highest quality, performance-leading optical transceivers for any network architecture. Find the transceiver model to fit your

FS Community

Hier sollte eine Beschreibung angezeigt werden, diese Seite lässt dies jedoch nicht zu.

100Base-LX SFP Module

MSA Uncoded SFP Module - 100BASE-LX - 100MbE Single Mode Fiber (SMF) Optic Transceiver - 100Mb Ethernet SFP - LC 10km -

Intel® Silicon Photonics 100G CWDM4 QSFP28 Optical Transceiver

Intel® Silicon Photonics 100G CWDM4 QSFP28 Optical Transceiver quick reference with specifications, features, and technologies.

100M/155M SFP 2□150km Optical Modules (Industrial

GIGALIGHT's 100M SFP series optical transceiver modules are extensively used in Fast Ethernet (100M

Comprehensive Guide to Optical Transceiver Classifications and

Introduction Optical modules are critical components in fiber optic communications, enabling the conversion between

100M SFP Transceiver Modules Data Sheet | FS

Featuring low power consumption, this industrial optic transceiver provides 100BASE Ethernet connectivity options for

Cisco SFP Modules for Gigabit Ethernet Applications Data Sheet

This data sheet describes the benefits, specifications, and ordering information for the Cisco SFP Modules for Gigabit

AFBR-89BDDZ: QSFP28 Pluggable, Fiber-Optics Module 100

Description The Broadcom® AFBR-89BDDZ is a four-channel, pluggable, multimode, fiber-optic QSFP28 transceiver for 100-Gigabit

Catalyst 6500 Series 10

This data sheet describes the benefits, specifications, and ordering information for the Catalyst 6500 Series 10- and

SFP Optical Module Specifications: Standards & Performance

A practical guide to SFP Optical Module Specifications, covering data rates, optical budget, Tx/Rx power, DDM/DOM, standards, and

100Mbps SFP Optical Modules

Power Modules Fan Modules Storage Devices Optical/Electrical Modules Before You Start 100Mbps SFP Optical Modules 1Gbps

Multi-Mode 100Mbps Fiber Transceiver SFP/Mini-GBIC

Cisco GLC-FE-100FX Compatible SFP Module - 100BASE-FX - 100Mbps Multimode Fiber MMF Optic Transceiver - 100 Mbps - LC

100GBASE-SR4 QSFP28 Optical Transceiver

The 100GBASE-SR4 QSFP28 optical transceiver is a parallel 103.1Gbps quad small form-factor pluggable

Optic Modules Datasheet

datasheet is intended to guide the user through the various options available when choosing an optic module for a given platform

A Comprehensive Guide to 100G Optical Transceiver Module Form

Understand 100G optical transceiver form factors like QSFP28, CFP, CFP2, CFP4 and CXP. Learn how they

100BASE FX SFP: Complete Guide to 100Mbps Fiber Transceivers

100BASE FX SFP remains a widely used solution for deploying 100Mbps fiber connectivity in industrial, enterprise, and legacy Fast

Optical Transceivers

Optical transceivers have revolutionized data transmission, providing high-speed, long-distance, and secure data transmission

Contact Us

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