100Mbps Single-Mode Optical Module Specifications



Overview

100M SFP Transceiver Modules Data Sheet | FSFeaturing low power consumption, this industrial optic transceiver provides 100BASE Ethernet connectivity optio.

Key Takeaways

A 100Mbps single-mode SFP module typically operates at 1310nm wavelength, uses an LC connector, supports link distances up to 10 km, and is hot-swappable for Fast Ethernet ports.

Key Specifications

Wavelength and Fiber Type: Most 100Mbps single-mode SFP modules operate at a 1310nm wavelength over single-mode fiber (SMF), providing long-distance connectivity up to 10 km via LC connectors (FS SFP-100LX-31-I). Connector Type: Standard modules use LC duplex connectors, ensuring compatibility with most single-mode fiber cabling infrastructures. Data Rate: Supports 100Mbps Fast Ethernet (100BASE-FX) and is compatible with dual-rate Fast/Gigabit Ethernet ports on switches and routers.

Hot-

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Swappable: Modules are hot-swappable, allowing installation or replacement without powering down the network device, which is critical for minimizing downtime. Digital Diagnostic Monitoring (DDM): Many modules support DDM, providing real-time monitoring of optical output power, input power, temperature, and voltage for network management. Power Consumption: Typically low, around ≤1W, suitable for both indoor and industrial deployments.

Standards Compliance: Compliant with IEEE 802.3u 100BASE-FX standards and MSA (Multi-Source Agreement) for SFP modules, ensuring interoperability across different vendors. Industrial and Enterprise Use: Certain models are rated for industrial temperature ranges and are suitable for outdoor or harsh environments, while standard modules are optimized for enterprise LAN, SAN, and ISP networks. Interoperability: Certified to work with major network equipment brands such as Cisco, Arista, Juniper, and Brocade, ensuring reliable performance across heterogeneous networks.

Summary

A 100Mbps single-mode SFP module provides reliable, long-distance fiber connectivity with low power consumption, hot-swappable design, and compliance with IEEE 100BASE-FX standards. It is ideal for enterprise, ISP, and industrial applications requiring up to 10 km link distances over single-mode fiber using LC connectors, with optional DDM support for network monitoring.

Article Content

100M SFP Transceiver Modules Data Sheet | FS

Featuring low power consumption, this industrial optic transceiver provides 100BASE Ethernet connectivity options for Fast Ethernet, Telecom and Data Centers, suitable for both outdoor

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

Learn everything about 100BASE FX SFP, including specifications, transmission distance, fiber requirements, applications, and deployment best practices.

Cisco SFP Modules for Gigabit Ethernet Applications

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

Cisco Fast Ethernet SFP Modules

The Cisco 100BASE-LX10 SFP operates on ordinary single-mode fiber-optic (SMF) link spans up to 10 km long. GLC-FE-100LX modules operate

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MTS-SFP-100M-SM/LC Technical Data Sheet

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Optic Modules Datasheet

datasheet is intended to guide the user through the various options available when choosing an optic module for a given platform depending on the architecture. The following table lists the different

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

100Base-LX SFP Module

TESTED FOR COMPATIBILITY: Hot-swappable in MSA Compliant routers and switches; DDM support reports the transceiver''s status to most SNMP network

100 Mb/s Singlemode Transceivers Fiber Optic Transmitters,

Mouser offers inventory, pricing, & datasheets for 100 Mb/s Singlemode Transceivers Fiber Optic Transmitters, Receivers, Transceivers.

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

RUGGEDCOM SFP Transceivers

RUGGEDCOM SFP1131-1FX50 Siemens'' RUGGEDCOM SFP1131-1FX50 industrial grade 100 Mbps fiber optic fast Ethernet SFP transceiver operates within a wide temperature range (-40 to 85 °C or

SFP Optical Transceiver Products | Syrotech Networks

Syrotech Networks is market leader in manufacturing and supplier of sfp module, optical transceiver, sfp port, sfp optical transceivers, fiber sfp.

100Base-LX SFP Module

MSA Uncoded SFP Module - 100BASE-LX - 100MbE Single Mode Fiber (SMF) Optic Transceiver - 100Mb Ethernet SFP - LC 10km - 1310nm - DDM

Introduction to Common 100G Optical Module Types, Advantages,

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By understanding the different types of 100G optical modules available, their advantages, and application scenarios, organizations can make informed decisions when designing, deploying, and

StarTech MSA Uncoded Compatible SFP Module

TECHNICAL SPECS: 100BASE-LX | 100Mbps | Single Mode (SMF) | LC Connector | 1310nm | Digital Diagnostic Monitoring (DDM) | Distances up to 10km (6.2mi)

Overview of 100G Optical Modules and Modulation

Explores 100G Optical Modules types and modulation techniques, focusing on PAM4 and coherent optics to improve performance and bandwidth.

The Most Comprehensive Guide Of Optical Modules

Explore the ultimate guide to optical modules. Learn types, functions, performance metrics & how to choose the right module for your fiber network.

MFB-F60 Single Mode, 100Mbps SFP Fiber Transceiver

SFP Fiber Transceiver PLANET''s 100Mbps Fast Ethernet SFP Fiber Transceiver utilizes a wavelength of (1310nm) FP LD, which enables a data transmission of

Related Video Reference

This video was associated with the source search result. Verify technical details against current product documentation and project requirements.

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North American project region: Ashburn, Loudoun County, Virginia, United States

This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

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