

1000m Optical Module Specifications



Article Overview

1000m optical modules, typically SFP transceivers, support 10/100/1000 Mbps over copper or fiber with distances up to 100 meters, featuring hot-pluggable RJ45 or fiber connectors and compliance with SFP MSA and IEEE 802.3 standards.

Key Specifications

Form Factor & Connector: Most 1000m modules use the SFP (Small Form-factor Pluggable) standard, allowing hot-pluggable installation. Copper modules feature RJ45 connectors, while fiber modules use LC, SC, or MPO/MTP connectors depending on singlemode or multimode fiber deployment . **Data Rate & Transmission Distance:** These modules support 10/100/1000 Mbps (Gigabit Ethernet) and can transmit up to 100 meters over Cat5/Cat6 twisted pair cabling for copper SFPs. Fiber-based 1000m modules can reach longer distances depending on wavelength and fiber type . **Wavelength & Fiber Type:** Fiber modules operate at standard wavelengths such as 850nm for multimode and 1310nm or 1550nm for singlemode, which determines the maximum reach and compatibility with OM3/OM4 fibers . **Power & Environmental Tolerance:** Typical modules operate on a +3.3V power supply and support commercial (0-70°C) or industrial (-40-85°C) temperature ranges. Industrial-grade modules are designed for harsh environments, including outdoor and manufacturing deployments . **Compliance & Standards:** Modules conform to SFP MSA (INF-8074i), IEEE 802.3/802.3ab, and RoHS/CE standards. They support auto-negotiation across 10/100/1000 Mbps and are compatible with multi-vendor equipment . **Performance & Reliability:** High-quality modules provide low power consumption, hot-swappable operation, and DDM (Digital Diagnostic Monitoring) for real-time monitoring of temperature, voltage, and optical power. They are engineered to maintain bit error...

Article Content

Cisco 10GBASE SFP+ Modules Data Sheet

The Cisco® 10GBASE SFP+ modules (Figure 1) give you a wide variety of 10 Gigabit

Cisco GLC-LH-SM Datasheet

Cisco GLC-LH-SM 30-1299-03 CN8ID42AAC 1000BASE-LX/LH SFP Transceiver Module
Cisco's industry-standard SFP is a hot

Cisco SFP Modules for Gigabit Ethernet Applications

This data sheet describes the benefits, specifications, and ordering information for the

Copper SFP Module | 1000BASE-T RJ45 | EDGE Optical Solutions

1000BASE-T copper SFP module with RJ45 interface, tri-speed 10/100/1000 auto-negotiation, up to 100m over Cat5e/Cat6. EU stock

Specifications For Fiber Optic Networks

Specifications For Legacy Fiber Optic Networks A listing of many fiber optic LANs and links available in the last 30 years, with basic

Optical Transceiver Modules

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Copper SFP Module | 1000BASE-T RJ45 | EDGE Optical Solutions

The 1000M-SFP-T is a multi-vendor compatible 10/100/1000BASE-T copper SFP module that lets SFP-equipped switches and

Optic Modules Datasheet

Features and Benefits The following table lists the different pluggable optic modules and supported platforms, along with the

XFP-1000-SR: XFP 10G SR Optical Module Multimode

Discover the XFP-1000-SR a 10G SR multimode module for up to 300m. Cisco compatible - buy now for

SX SFP Module Guide: Specs, Distance & 1000BASE-SX vs LX Deep

Master the 1000BASE-SX standard with our definitive guide to SX SFP modules. Learn about 850nm VCSEL

1000BASESX SFP: How to Select the Right Optical Module

A complete 1000BASE-SX SFP buying guide — understand specs, compatibility, fiber requirement, and installation tips to ensure

1000BASE-T Copper SFP Module

Our 1000BASE-T Copper SFP module delivers dedicated Gigabit Ethernet connectivity over existing

Copper SFP EOLT-C12-02-G 10 100 1000M Copper SFP

Product Description EOLT-C12-02-G is a 10/100/1000BASE-T Copper Small Form Pluggable (SFP), which is based on the SFP Multi

Optical Modules in General-Purpose Computing Scenarios

Huawei offers a comprehensive portfolio of pluggable StarryLink optical modules for data center networks, with various models

SFP-GB-T1 10/100/1000M Copper SFP Module

The module supports 1000Mbps full duplex data-links with 5-level Pulse Amplitude Modulation (PAM)

What Is 1000BASE-SX SFP Transceiver Module: Complete Guide

Learn what a 1000BASE-SX SFP transceiver module is, how it works, key specifications, fiber requirements, and when

The Ultimate Guide to SFP Modules, Connectors, and

Discover everything you need to know about SFP modules, connectors, and transceivers

1000BASE-T Industrial SFP | -40 to 85°C | EDGEOPTIC | EDGE Optical ...

EDGEOPTIC Industrial 1000BASE-T SFP: 1 Gbps Gigabit, up to 100m, -40 to 85°C extended temp, RJ45 interface. Rugged design

Multi-mode optical fiber

Multi-mode optical fiber is a type of optical fiber mostly used for communication over short distances, such as within a building or on a

SFP-GB-T1 10/100/1000M Copper SFP Module

Description 10/100/1000M SFP-GB-T1 Copper Small Form Pluggable (SFP) transceivers is high performance, cost effective module

1 Gbit/s SFP Optical/Electrical Modules

This page provides technical details and support information about 1 Gbit/s SFP optical/electrical modules from Huawei.

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1000BASE-T Copper SFP Module

EDGEOPTIC 1000BASE-T Copper SFP: 1 Gbps Gigabit Ethernet, up to 100m Cat5e/Cat6, RJ45 interface,

DATA SHEET 1000 BASE-X SFP

Overview s IO modules and switches. Only proven, qualified vendors are chosen to assist in providing an e tance capability required.

The Most Comprehensive Guide Of Optical Modules

Explore the ultimate guide to optical modules. Learn types, functions, performance metrics

Optic Modules Datasheet

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

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

SFP-1000-LRM SFP+ 10G LRM Transceiver Multimode 220m

Product description The SFP-1000-LRM is a short range multi-mode 10G SFP+ optical module compliant with 10GBase-LRM specs.

1000BASE-SX optical Ethernet/SAN specification

The table below shows the operating range for the 1000BASE-SX optical Ethernet/SAN interface. A 1000BASE-SX compliant

Cisco 1000BASE-SX SFP

The Cisco GLC-SX-MM operates on ordinary multi-mode fiber optic link spans of up to 550 m in length. Learn about the Cisco

Optical Transceiver Modules for Datacom/Telecom Applications

Transceivers for Datacom and Telecom applications are available in the form of chipsets and hot-swappable modules. Transceiver

10/100/1000M Media Converter Manufacturer

The 10/100/1000M media converters are designed to transmit and receive data over optical fiber. The electrical interface will Auto

Gigabit Ethernet

Gigabit Ethernet was the next iteration, increasing the speed to 1000 Mbit/s. The initial standard for Gigabit

Arista Optics Modules and Cables

25 Gigabit Ethernet SFP25 Optical Specifications ... When connecting 25G-MR-XSR/LR optics to legacy fixed rate 10G optics,

Cisco Transceiver Modules

Cisco Transceiver Modules - Learn product details such as features and benefits, as well as hardware and software specifications.

Huawei OEGD01N01 1000BASE-T RJ45 SFP Optical Module

Huawei OEGD01N01 Overview The Huawei OEGD01N01 is an enterprise-class SFP optical functional module designed to deliver

What is a 1000BASE-SX SFP Optical Transceiver

Understanding its specifications, capabilities, and optimal deployment scenarios is crucial for network engineers and IT

Contact Us

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