CE Certified SFP Optical Module 1G



Overview

FS Gigabit SFP module solutions provide fibre and copper connections up to 160km, includes 1000BASE-SX, 1000BASE-LX/LH, 1000BASE-EX, 1000BASE-ZX, 1000BASE-T on a port-by-port basis.

Key Takeaways

CE-certified 1G SFP optical modules are small form-factor pluggable transceivers designed for reliable Gigabit Ethernet and fiber channel connectivity, supporting both single-mode and multi-mode fiber with compliance to CE, RoHS, and industry standards. OverviewCE-certified 1G SFP modules are hot-swappable optical transceivers that enable Gigabit Ethernet (1G) or 1G Fiber Channel communication over fiber optic networks. They are designed to meet CE, RoHS, FCC, and SFP MSA standards, ensuring safety, environmental compliance, and interoperability with a wide range of networking equipment, including Cisco, Arista, HPE, and Hirschmann switches and routers.

Types and SpecificationsSingle-Mode SFP (SMF): Operates typically at 1310nm wavelength, supporting long-distance transmission from 20 km up to 80 km depending on the module type (e.g., 1000BASE-LX, 1000BASE-EX, 1000BASE-ZX) and optical budget.

Multi-

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Mode SF

P (MMF): Operates at 850nm wavelength, suitable for shorter distances, typically up to 300 meters, using duplex LC connectors. Data Rate: Supports 1.0625–1.25 Gbps, compatible with Gigabit Ethernet and 1G Fiber Channel applications. Connectors: Most modules use LC duplex connectors for separate transmit and receive channels.

Temperature Range: Industrial-grade modules can operate from -40°C to 85°C, suitable for harsh environments. FeaturesHot-Swappable: Can be installed or replaced without powering down the network device, minimizing downtime. Digital Diagnostics Monitoring (DDM/DOM): Provides real-time monitoring of optical power, temperature, and voltage for network reliability.

Compatibility: Tested for seamless operation with major OEM platforms, ensuring plug-and-play functionality. Applications: Ideal for enterprise LANs, data centers, ISP links, AV-over-IP systems, and campus fiber backbones. Compliance and CertificationCE-certified 1G SFP modules meet European safety standards and environmental regulations.

Many modules also carry UKCA and RoHS compliance, ensuring adherence to modern safety and environmental requirements. Compliance with SFP MSA and SFF-8472 guarantees interoperability across different vendors and network devices. SummaryCE-certified 1G SFP optical modules provide a reliable, standardized, and versatile solution for Gigabit fiber connectivity.

They are available in both single-mode and multi-mode variants, support long-distance and short-distance transmission, and include features like hot-swappability and real-time diagnostics. These modules are widely used in enterprise networks, data centers, and industrial networking environments, offering compatibility with major networking equipment and compliance with international safety and environmental standards.

Article Content

1000BASE SFP (mini-GBIC) Transceivers

FS Gigabit SFP module solutions provide fibre and copper connections up to 160km, includes 1000BASE-SX, 1000BASE-LX/LH, 1000BASE-EX, 1000BASE-ZX, 1000BASE-T on a port-by-port basis.

1G SFP – Optcore

1G / 1000BASE SFP Optcore''s 1000BASE SFP transceiver is suitable for 1G Ethernet and fiber channel applications. Therefore, it is sometimes called 1G

1G SFP Transceivers | Mini-GBIC SFP Modules

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FS gigabit ethernet transceiver solutions provide fibre or copper options including 1000BASE-SX, 1000BASE-LX/LH, 1000BASE-T etc., from 100m to 160km, for

1G SFP Optical Transceiver Modules | Solid Optics

1G SFP optical transceiver modules for multi-mode and single-mode in distances ranging from 300 meters up to 80km with a limited lifetime warranty.

SFP Module – Optcore

Our SFP module comply with the SFF-8472 MSA (Multi-Sourcing Agreement), CE, FCC, RoHS, and corresponding industry standards. Moreover, they have a built-in DOM/DDM function as default for

OREI 1G SFP Single-Mode Optical Module (1000BASE-EX, 1310nm,

Certified Hardware Design – CE, UKCA, and RoHS compliant for professional networking deployments. The OREI 1G SFP 1000BASE-EX Optical Transceiver Module is designed for reliable long-distance

SFP Transceivers | 1G, CWDM, DWDM, BiDi | EDGE Optical Solutions

Single-fiber bidirectional Gigabit SFP modules with SC connector interface for legacy equipment compatibility. Offered in matched wavelength pairs covering 3km to 40km distances, ideal for

Optical Transceivers from 1G to 400G | Solid Optics

Compatible optical transceivers 1G, 10G, 25G, 40G and 100G in multiple form factors including SFP, SFP+ XFP, QSFP+, QSFP28 and CFP with a lifetime warranty.

SFP-1G-LH Cisco Compatible 1G SFP Transceiver

Our compatible Cisco SFP-1G-LH module is CE/RoHS certified, it meets product safety standards, and is compliant with SFP Multi Source Agreement (MSA) SFF-8477 industry standard.

SFP1-MM-D Optical multi–mode 850nm 1G SFP transceiver

Certified Transceiver — Kramer certified, hot–pluggable SFP optical module, for high–quality transmission of 1.25Gbps signal over multimode fiber cables, connecting 2 multimode fiber strands

SFP Optical Transceiver Products | Syrotech Networks

An SFP (Small Form-Factor Pluggable) is a compact, hot-pluggable transceiver used in telecommunications and data networks for high-speed connectivity. Supporting both copper and fiber

SFP1-MM-D Optical multi–mode 850nm 1G SFP transceiver

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SFP1−MM−D is a fiber optic duplex transceiver for 850nm multimode signals. This standard pluggable SFP optical module has an LC connector for reception and transmission of signals over a single

Cisco Transceiver Modules

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

The Ultimate Guide to 1G SFP Modules

In this comprehensive guide, we delve into the world of 1G SFP modules, providing a complete understanding of their functionality, types, and

SFP-1G Series

Introduction The SFP-1G Series 1-port Gigabit Ethernet SFP modules are available as optional accessories for a wide range of Moxa Ethernet switches.

Choosing the Right 1G SFP Transceivers for Your Network Upgrade

People commonly use SFP transceivers to connect network devices and cables. With the increasing range of applications, many 1G SFP transceivers are available. However, choosing the

1G CWDM/DWDM SFP Transceiver Modules | Optical Transceivers

FS 1G CWDM/DWDM SFP hot-swappable optical transceiver operates at DWDM wavelengths from CH17-CH61 and supports high-capacity long-distance network transmission, suitable for Gigabit

SFP Module – Optcore

SFP Module SFP module is a small form factor, compact, hot-pluggable optical transceiver, also called mini-GBIC. Our SFP module comply with the SFF-8472 MSA (Multi-Sourcing Agreement), CE, FCC,

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