Optical module SFF interface manufacturers



Overview

Compact SFF Optical Modules: Reliability, Density & Efficiency for. Discover how soldered SFF (Small Form-Factor) optical modules deliver high reliabilit.

Key Takeaways

Leading manufacturers of SFF optical modules include LINK-PP, Chengdu Gigac Technology, and Amphenol, offering compact, reliable, and high-performance transceivers for embedded and industrial networking applications. Key Manufacturers and OfferingsLINK-PP specializes in soldered SFF optical modules designed for permanent integration onto PCBs. Their products, such as the LF5-SC3501-40IDL and LF5-SM3101-10AI, support bidirectional single-fiber links and 1G Ethernet over single-mode fiber, providing low-latency, high-reliability performance for FTTH deployments, industrial automation, and embedded network hardware.

LINK-PP modules are ISO-certified, RoHS-compliant, and Telcordia-tested, emphasizing long-term durability and thermal stability. Chengdu Gigac Technology offers the SFF 2x5 series, which includes single-fiber (SC interface) and dual-fiber (LC interface) transceivers. These modules support speeds from 155Mbps to 2.

5Gbps and transmission distances from 300m to 160km, with military-grade and extended-grade options for harsh environments. They feature low EMI, excellent ESD protection, and operate from a single 3. 3V supply.

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Amphenol provides a broad range of SFF optical transceivers, including SFP, SFP+, XFP, and QSFP28 modules. Their products support duplex, BiDi, CWDM, and DWDM applications, with LC or MPO interfaces. Amphenol modules are widely used in data centers, telecom, and high-speed networking, offering low power consumption, high reliability, and compliance with IEEE and MSA standards.

Applications and AdvantagesSFF optical modules are ideal for embedded systems, industrial Ethernet, telecom access layers, and data center interconnects. Their soldered design ensures mechanical stability, thermal efficiency, and reduced failure rates compared to pluggable modules. They support multiple communication standards, including Ethernet, SONET/SDH, ATM, and Fibre Channel, enabling broad interoperability.

Summary

For sourcing SFF optical modules, LINK-PP, Chengdu Gigac Technology, and Amphenol are prominent manufacturers offering a range of compact, high-performance, and industrial-grade transceivers. Selection depends on required interface type (SC, LC), data rate, transmission distance, and environmental tolerance, making these manufacturers suitable for both embedded and high-density networking applications.

Article Content

Compact SFF Optical Modules: Reliability, Density & Efficiency for ...

Discover how soldered SFF (Small Form-Factor) optical modules deliver high reliability, dense port integration and cost-efficient connectivity for OEMs in industrial, telecom and embedded

SFF Fiber Optic Transmitters, Receivers, Transceivers – Mouser

Mouser offers inventory, pricing, & datasheets for SFF Fiber Optic Transmitters, Receivers, Transceivers.

Mini-SFF Optical Transceiver-Optical Transceiver-Gigac Technology

We specialize in producing a wide range of optical transceivers, including SFP, SFF, Mini-SFF, LCC, and Parallel Optical Modules, as well as OLT and ONU solutions.

SFP modules

The small form-factor plug-in module provides a fiber optic interface with a data transmission speed of 100 Mbps with a wavelength of 1310 nm (long).

10G SFP+ Optical Transceivers | Transceiver Module

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Click to get your 10G SFP+ transceiver modules from nearby warehouses. 30-Day Free Return. Trusted by 260K+ Enterprise Users.

Fiber Optic Connectors | Products | Amphenol

COMPLIANT WITH 10G ETHERNET AND CPRI Amphenol''s 10G SFP+ optical modules include SFP+ AOC. They are compliant with SFP+ MSA, SFF-8431 and

Understanding SFF Transceivers in Modern Networking

Our SFF optical modules are built for performance and longevity. Contact our engineering team today to discuss integration options or request samples for your next-generation

SFP Module Transceivers, Manufacturer & Supplier

YXFiber is China manufacturer & supplier who mainly produces SFP Module, SFP Transceivers, with years of experience. Hope to build business relationship with

How to Check SFP Light Levels Using CLI Commands

How SFP Optical Telemetry Works (SFF-8472 vs CMIS + CLI Commands) Quick Answer (Featured Snippet): SFP light levels are measured using Digital Optical Monitoring (DOM), where the

Understanding Optical Modules: Types and Troubleshooting Guide

Optical modules come in various types, and their external structures are not exactly the same. However, their basic compositional structure includes the following parts, as shown in Figure 1-2, which

SFP Optical Modules: The Essential Bridge in Modern Communication

The SFP, short for "Small Form-factor Pluggable," is an interchangeable optical fiber communication interface standard designed for high-speed connections between network devices

Cisco 10GBASE SFP+ Modules Data Sheet

The Cisco® 10GBASE SFP+ modules (Figure 1) give you a wide variety of 10 Gigabit Ethernet connectivity options for data center, enterprise wiring closet, and service provider transport

Optical Module MCUs Become Critical as AI Data Centers Drive

MCU chips for optical modules emerge as a critical semiconductor segment as AI data center buildout drives 800G/1.6T demand, with domestic players GigaDevice and Nations

10G BiDi SFP+ TX1550nm/RX1490nm 70KM LC Optical Transceiver

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Get 10G BiDi SFP+ TX1550nm/RX1490nm 70KM LC Optical Transceiver from ETU-Link Technology CO .,LTD,we supply excellent SFP+ 10G BiDi 70KM SFP Module. Long using life,high

Meaning of Optical Module Pull Tap Colors

Optical module pull tab colors serve as a visual language in network operations and maintenance. Their core value lies in simplifying module selection and troubleshooting.

1G SFP Optical Transceivers | SX, LX, TX Modules

Discover reliable and versatile 1G SFP optical transceivers fully compatible with Cisco, Huawei, Juniper, Arista, and more. Choose from SX, LX, and TX modules.

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Optical Transceiver Manufacturer | 1G-800G Optics | Wolon

We customize optical module parameters for customers based on the design plan and optimize key indicators such as optical power and receiving sensitivity. Each module undergoes three phases of

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