

Inter 10 Gigabit Optical Module



Overview

10 Gigabit Fiber SFP+ Optical Transceiver Module Compatibility in your network is everything, and this SFP+ Transceiver Module 10 Gigabit Fiber SFP+ Optical.

Key Takeaways

A 10 Gigabit optical module is a hot-swappable transceiver that enables 10Gbps data transmission over fiber or copper connections, widely used in data centers, enterprise networks, and telecom infrastructure.

A 10 Gigabit optical module, commonly referred to as 10G SFP+, is a compact, hot-pluggable network interface module designed to transmit and receive data at speeds of up to 10 gigabits per second . It serves as the physical-layer connection between network devices such as switches, routers, and servers, and the transmission medium, which can be either fiber optic cabling or copper cables . The SFP+ form factor is an enhanced version of the original SFP standard, offering higher performance, lower power consumption, and greater port density .

Key Features

- **Data Rate:** Supports 10Gbps, with some variants also compatible with 1G, 2.5G, or 5G for backward compatibility .
- **Form Factor:** SFP+ (Small Form-factor Pluggable Plus), compatible with SFP slots but optimized for 10G .
- **Connector Types:** LC duplex for fiber optic cables or Direct Attach Copper (DAC) for short-range connections .

- **Transmission Distance:** Multimode fiber (SR) up to 300m, single-mode fiber (LR/ER/ZR) from 10km to 80km, and copper DAC up to 7-15m depending on type .
- **Power Efficiency:** Typically consumes 1W or less, making it more efficient than older XFP modules .
- **Hot-Pluggable:** Can be inserted or removed without powering down the network device .

Types

- **Fiber SFP+:** Uses LC connectors for longer distances; includes variations like 10GBASE-SR (short-range) and 10GBASE-LR (long-range) for multimode and single-mode fibers .
- **Copper SFP+:** Uses RJ-45 or DAC cables for short-range connections, ideal for server-to-switch links within racks .
- **Specialized Variants:** BiDi (bidirectional over single fiber), CWDM/DWDM (wavelength-division multiplexing), and tunable modules for metro or long-haul networks .

Applications

- **Data Centers:** High-speed interconnects between servers, storage, and core switches .
- **Enterprise Networks:** Campus networks, backbone links, and high-bandwidth applications like video conferencing and large database access .
- **Telecom Networks:** Metropolitan area networks, backbone networks, and base station backhaul .
- **Industrial and Security Systems:** Video surveillance and industrial automation requiring low-latency, high-bandwidth connections .

Advantages

- **High Bandwidth:** Ten times the capacity of standard gigabit modules .
 - **Flexibility:** Supports multiple protocols (Ethernet, Fibre Channel, SONET/SDH) and media types .
 - **Scalability:** Allows network upgrades to 10Gbps without replacing existing hardware .
 - **Low Power Consumption:** Efficient for high-density deployments .
- In summary, 10G optical modules are essential components for modern high-speed networks, providing reliable, scalable, and energy-efficient connectivity across a wide range of applications, from enterprise data centers to telecom backbones .

Article Content

10 Gigabit Fiber SFP+ Optical Transceiver Module

10 Gigabit Connectivity Small Size For High-Density Fiber Connections Compatibility Hot-Pluggable Digital Diagnostics Monitoring Whether you need a fast connection to your 10 GbE equipped server or NAS device, or if you simply want to connect two Gigabit switches in your data center at higher speeds to eliminate bottlenecks, the Intellinet Network Solutions 10GBase-SR Fiber SFP+ Optical Transceiver Module, model 507462, is the right choice. See more on [intellinetsolutions](#) Category: Repeaters & Transceivers IC Intracom USA Inc.

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Intellinet 10 Gigabit Fiber SFP+ Optical Transceiver Module

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Intellinet 507462 10 Gigabit Fiber SFP+ Optical

The Intellinet Network Solutions 10 Gigabit Fiber SFP+ Optical Transceiver Module (model 507462) is fully

Intellinet 10 Gigabit Fiber SFP + (LC) Single-Mode

The Intellinet 10 Gigabit Fiber SFP Optical Transceiver Module (model 507479) is fully hot

10G SFP+ PRODUCT FAMILY

10G SFP+ PRODUCT FAMILY DESCRIPTION The 10GBASE SFP+ modules allow a wide variety of 10 Gigabit Ethernet connectivity

Industrial Gigabit Fiber SFP Optical Transceiver

Also known as a mini-Gigabit Interface Converter (GBIC), this industrial SFP module's metal housing offers

Intellinet 10 GbE Fiber SFP+ Optical Transceiver Module (507479)

The Intellinet Network Solutions 10 Gigabit Fiber SFP+ Optical Transceiver Module (model 507479) is fully hot-pluggable, and that

Intellinet 507462 10 Gigabit Fiber SFP+ Optical

10 Gigabit Connectivity Whether you need a fast connection to your 10 GbE equipped server or NAS

Intellinet 10 GbE Fiber SFP+ Optical Transceiver Module (507462)

10 Gigabit Connectivity Whether you need a fast connection to your 10 GbE equipped server or NAS device, or if you simply want to

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10 Gigabit Fiber SFP+ Optical Transceiver Module

10 Gigabit Connectivity Intellinet Network Solutions 10GBase-LR Fiber SFP+ Optical Transceiver Module, model 507479, is the right

GbE Fiber WDM BiDi SFP Optical Transceiver Module

The Intellinet Network Solutions Gigabit Fiber WDM Bi-Directional SFP Optical Transceiver Module (model

Intel SFP+ Module

Buy Intel SFP+ Module - For Data Networking, Optical Network 1 x 10GBase-SR Network - Optical Fiber Multi-mode - 10 Gigabit

Industrial 10 Gigabit Fiber SFP+ Optical Transceiver Module

Whether you need a fast connection to your 10-GbE-equipped server or NAS device, or if you simply want to connect two Gigabit

10Gtek 10GBase-SR SFP+ LC Transceiver, 10G 850nm Multimode SFP Module ...

10GBASE-SR SFP+ to LC Optical 10 Gigabit Ethernet Fiber transceiver module, 10GbE Multimode SFP+ (compatible

10G SFP+ Optical Transceiver Modules | AscentOptics

10G SFP+ Product Descriptions AscentOptics" 10G SFP+ modules offer customers a wide variety of 10 Gigabit Ethernet connectivity

Gigabit Fiber SFP Optical Transceiver Module

Gigabit Fiber SFP Optical Transceiver Module The new line of Intellinet Network Solutions Small Form Factor Pluggable (SFP)

Introduction of 10G SFP+ Optical Modules

10G SFP+optical module is a popular category widely used in data centers, enterprise networks, edge devices, and

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

