

Gigabit optical port to electrical port optical module



AI Overview

A Gigabit optical to electrical port module converts optical fiber signals into electrical signals via an RJ45 interface, enabling seamless integration between fiber and copper Ethernet networks.

Overview

An optical to electrical port module is a hot-swappable device, typically in an SFP form factor, designed to bridge fiber optic and copper Ethernet networks. It converts optical signals from fiber cables into electrical signals compatible with standard RJ45 Ethernet ports, supporting Gigabit Ethernet speeds (1 Gbps) and short-reach data transmission over UTP copper cabling up to 100 meters .

Key Features

- Data Rate: Supports 1.25G optical input and Gigabit Ethernet output .
- Interface: RJ45 connector for copper Ethernet, compatible with standard UTP cables .
- Compatibility: Works with major networking brands including Huawei, H3C, Ruijie, ZTE, Cisco, and TP-Link .
- Transmission Distance: Typically up to 100 meters over copper cabling .
- Hot-Pluggable: Can be installed or replaced without network downtime .
- Applications: Ideal for telecom providers, enterprise networks, data centers, and campus LANs requiring optical-to-copper conversion .

Article Content

Optical to Electrical Port Module Conversion RJ45 Optical Fiber

Product Summary: Optical to Electrical Port Module Conversion RJ45 Optical Fiber Module 1.25G Optical Port to gigabit Electrical

Can 10GbE Switch Port Link to Gigabit Switch Port?

Because this technology is based on electrical pluses but not optical pluses. Thus 10Gb SFP+ optics on 10GbE switch

8 ports SFP slot & 1 port 10/100/1000 Gigabit Optical Fiber Switch

AN-UM-SMC-81-AS - 9 ports Gigabit Ethernet Switch has 1 10/100/1000M UTP port and 8 1000M SFP sockets/slots. Customer can

What is the difference between electrical and optical

Electrical port module is also known as optical to electrical port module, which is a module

What is SFP: SFP Meaning, SFP Types, SFP Port

What is an SFP module? What is SFP? SFP stands for small form-factor pluggable, a hot-pluggable interface device used to convert

Differences Between Electrical Port Modules And

An electrical port module, also known as an optical-to-electrical port converter module, is a

Gigabit SFP Module: A Complete Guide to 1G SFP

A gigabit SFP module (1G SFP module) is a Small Form-factor Pluggable (SFP) transceiver designed to

Fiber Optic Network Switches

One of VERSITRON's most flexible switching platforms is the Pick-a-Port Modular Ethernet Switch. Its modular architecture allows

Small Form-factor Pluggable

A 10 Gigabit Ethernet XFP transceiver, top, and a SFP+ transceiver, bottom The SFP+ (enhanced small form-factor pluggable) is an

TL-FC311B-2 | Gigabit WDM Media Converter | TP-Link

TL-FC311B-2 is a gigabit media converter, providing a gigabit RJ45 port and a gigabit SC fiber port, which

Cisco SFP Modules for Gigabit Ethernet Applications Data Sheet

Cost-effective Small Form-Factor Pluggable (SFP) transceivers for Gigabit Ethernet applications Product overview

Gigabit Fiber SFP Optical Transceiver Module

The new Intellinet Network Solutions Small Form Factor Pluggable (SFP) Transceiver provides the best combination of performance

What are electrical port optical modules?

Electrical port module is also known as optical port to electrical port module, photoelectric conversion optical module, it is a kind of

The difference between electrical interface module and optical module

Adaptive electrical port module is a gigabit optical module that can integrate 10/100/1000BASE three rates into CMOS chips, which

3-Port Fiber Optic Ethernet Media Converter Switch

The TC3240 4-port Switching/Bridging Fiber Optic Ethernet Media Converter converts or connects UTP (10/100Base-TX) networks to

What is the difference between the optical port and the electrical port ...

Optical ports on industrial switches are generally paired together, one TX sending end and one RX receiving end. The port type of

LHY Gigabit SFP Electrical Port Module Optical Port to ...

GZHYAJIN Gigabit SFP electrical port module converts optical to electrical signals. Includes RJ45 Ethernet cable, 2M/3M optical

Gigabit Fiber to RJ45 Ethernet Media Converter Dongle, Optical ...

Gigabit Fiber to RJ45 Ethernet Media Converter Dongle, Optical Singlemode 10km/Multimode 800m, PoE Powered, Compact

8-Port Managed Industrial Gigabit Ethernet Switch, DIN Mount

Managed 8-port Layer 2 switch with 4 SFP slots expands your Gigabit network in industrial environments, including mines, military

Everything You Need to Know About Optical Modules

Optical modules are electronic devices used in communication systems to transmit optical

HAILE Gigabit optical to power port module SFP-GE-T 1.25G RJ45

HAILE Gigabit Optical to Power Port Module SFP-GE-T is a high-performance SFP transceiver designed to convert optical signals to

Optical to Electrical Converter Module for Gigabit Ethernet ...

Product DescriptionGigabit electrical port optical module housing 1.25G to electrical SFP RJ45 100MProduct Description 1 Product

10GBASE-T SFP+ 10 Gigabit Electrical Port Module,

GIGALIGHT 10G SFP+ electrical port module is widely used in 10GBASE-T Ethernet, compatible with

Optical to electrical port module photoelectric conversion ...

Buy Optical to electrical port module photoelectric conversion RJ45 optical fiber module 1.25G optical port to gigabit electrical port

Gigabit interface converter

1000BASE-SX GBIC Gigabit interface converter (GBIC) is a standard for transceivers. First defined in 1995, it was used with Gigabit

RJ45 electrical port switch vs SFP optical port switch

The optical module of SFPs is a kind of interface device which converts the electrical signal into optical signal, It is the

What is GBIC? Everything You Need to Know (2024)

What is GBIC? GBIC stands for Gigabit Interface Converter, sometimes also called GBIC converter. It is a hot

Installation and Maintenance Guide for Gigabit Optical Modules and 10 ...

As an essential component of network communication, optical modules have been widely used in various scenarios

Understanding SFP Port: A Guide to Gigabit Ethernet and Fiber Optic ...

They convert electrical signals to optical signals or vice versa, depending on the type of cable and module used. SFP

Intellinet Gigabit Fiber SFP Optical Transceiver Module (545044)

This gives the user the ability to monitor parameters of the SFP, such as optical output power, optical input power, temperature, laser

What Is an SFP Port on a Gigabit Switch?

How an SFP Port Works on a Switch A switch SFP port converts electrical signals into optical signals via SFP

Contact Us

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