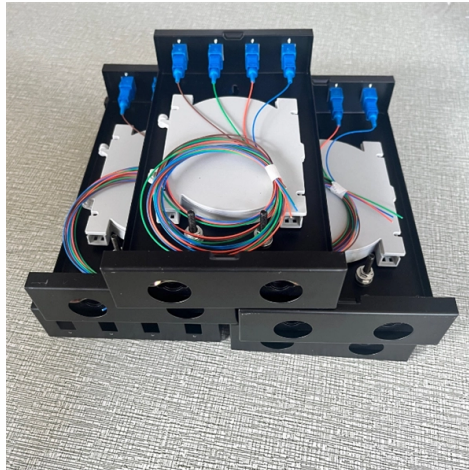


SSR Fiber Optic Cable Card



Article Overview

An SSR Fiber Optic Cable Card is a network interface card (NIC) designed for SSR devices, enabling high-speed fiber connectivity using compatible optical transceivers or direct-attach cables.

Overview

An SSR Fiber Optic Cable Card functions as a fiber NIC that connects servers or network devices to fiber optic networks. It is typically installed in a PCIe slot and supports pluggable transceivers or direct-attach cables (DACs) for high-speed data transmission. These cards are essential when bandwidth, distance, latency, or electromagnetic interference (EMI) are concerns, offering superior performance compared to copper Ethernet NICs .

Compatibility and Supported Media

For SSR devices like the Juniper SSR1300, the card supports a range of pluggable transceivers and connector types. Users can verify compatibility using the Juniper Hardware Compatibility Tool, which lists supported transceivers by product, interface speed, or type . Common fiber media include:

- Single-mode fiber (SMF, OS2): Long-distance connections, up to 10 km or more.
- Multimode fiber (MMF, OM3/OM4): Short-distance connections, typically under 500 meters.
- Direct-Attach Copper (DAC): Short, low-latency connections, usually ≤ 7 meters.
- Active Optical Cables (AOC): Flexible, lightweight fiber connections, 3-30 meters

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Cisco SFP+ Active Optical Cables (Figure 5) are direct-attach fiber assemblies with SFP+ connectors. They are suitable

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Cable Specifications and Pinouts for SSR1300 | Juniper Networks

The tool also documents the optical and cable characteristics, where applicable, for each transceiver. You can search for

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Introduction The Serial Data Fiber Link Card system transports two active channels of copper serial data over fiber optic cable,

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Cisco CRS Carrier Routing System Multishelf System Description

OIM cards are used to connect the FCC and LCC together in a multishelf system, using a set of 24 optical array

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