

What is the FC interface



Article Overview

An FC (Fibre Channel) interface is a high-speed network port used to connect servers and storage devices in a storage area network (SAN), enabling reliable, lossless data transfer.

Overview of FC Interface

An FC interface is part of the Fibre Channel (FC) technology, a serial I/O network protocol designed for high-speed, in-order, and lossless transmission of block data between servers and storage systems . FC interfaces are commonly found on host bus adapters (HBAs) in servers or on storage devices, and they connect to FC switches to form a switched fabric, which is the backbone of a SAN . These interfaces support multiple protocols, including Fibre Channel Protocol (FCP) for SCSI commands and FICON for IBM mainframe ESCON commands .

Functionality

FC interfaces provide a dedicated point-to-point or virtualized connection between a server (N_Port) and a switch (F_Port). To optimize bandwidth, multiple virtual links can be created over a single physical connection using N_Port ID virtualization (NPIV) . This allows multiple sessions to share the same physical link while maintaining logical separation. FC interfaces can operate over optical fiber or copper cabling, supporting data rates from 1 Gbps up to 128 Gbps depending on the generation .

Types of FC Connectors...

Article Content

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FC, or Fibre Channel, is a separate network that is usually used for data storage. A typical setup includes: multipath

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FCP (Fibre Channel Protocol)

The Fibre Channel protocol, also known as FC, is a method for transferring data serially over copper or optical fiber in

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Overview of Fibre Channel | Junos OS | Juniper Networks

The gateway receives FC frames encapsulated in Ethernet from FCoE devices through an FCoE VLAN interface composed of one or

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Basics of the Fibre Channel Standard | TV Tech

The standard of choice for many of the high-performance video media storage platforms is the Fibre Channel (FC),

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4.3 Overview of Fibre Channel (FC) SAN Protocol

FC protocol provides both the channel speed for data transfer with low protocol overhead and the scalability of network

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Fibre Channel Layers

5 bre Channel FC-4 Overview: Fibre Channel FC-4 is the fourth layer of the Fibre Channel

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Fibre Channel

FC-4 - Defines the application interfaces that can execute over Fibre Channel. It specifies the mapping rules of upper

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Fibre Channel Hard Drive Interface

Fibre Channel Interface Fibre channel is a type of SCSI hard drive technology used in high-end systems with multiple hard drives

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Hardware - Fibre Channel Industry Association

An adapter connects FC to IP networks such as Ethernet or Token Ring. A gateway (sometimes referred to as a router or director)

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Fibre Channel Interoperability

FC is primarily used in storage area networks (SANs) because it provides reliable, lossless, in-order frame transport

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Fibre Channel Protocol

- Fibre Channel's FC-0 level describes/specifies the physical interface characteristics, including transmission media,

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Fibre Channel Layers

Fibre Channel FC-1 Overview: Fibre Channel FC-1 refers to the data link layer of the Fibre

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FC connector

FC/PC connector The FC connector is a fiber-optic connector with a threaded body, which was designed

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Understanding FCoE-FC Gateway Functions

Each of the native FC interfaces on the gateway performs a fabric login (FLOGI) to the FC switch when each interface initializes. This

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Understanding Fibre Channel | Junos OS | Juniper Networks

Fibre Channel (FC) is a serial I/O interconnect network technology capable of supporting multiple protocols. It is used

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FC Connector Explained

FC/APC Connectors come with different key widths tailored to specific loss requirements.

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Fibre Channel Protocol

Fibre Channel Protocol (FCP) is the SCSI interface protocol utilising an underlying Fibre Channel connection. The Fibre Channel

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4.3 Overview of Fibre Channel (FC) SAN Protocol

The FC architecture represents true channel and network integration and captures some of the benefits of both

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What Is Fibre Channel? | Enterprise Storage Forum

The FCP operates as a means of implementing the small computer systems interface (SCSI) protocol across the

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Fibre Channel Overview

FC-4, the highest level in the FC structure defines the application interfaces that can execute over Fibre Channel. It specifies the

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Understanding Interfaces on an FCoE-FC Gateway

When a switch functions as an FCoE-FC gateway to connect FCoE devices on an Ethernet network to a Fibre

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What are Fibre Channel port types?

What are Fibre Channel (FC) port types? A Fibre Channel port is a hardware pathway into and out of a node that

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Understanding Interfaces on an FCoE-FC Gateway

One or two blocks of six proxy N_Port (NP_Port) interfaces to connect to FC switch fabric ports (F_Ports). Each FC

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