

Function of FC Interface Card



Overview

A Fibre Channel (FC) card—often called an HBA—provides lossless SAN connectivity over 16/32/64G FC, unlike Ethernet NICs that carry IP traffic such as iSCSI and NVMe/TCP. What is an Ethernet card?

An Ethernet card, commonly known as a Network Interface Card (NIC), is a hardware component that allows devices to connect to a network, typically a Local Area Network (LAN). Unlike traditional Ethernet NICs, FC NICs are specifically designed for the demanding requirements of Storage Area Networks (SANs), offering exceptional speed. The International Committee for Information Technology Standards (INCITS) T11 Technical Committee sets FC standards. FC networks provide high-performance characteristics such as lossless transport combined with flexible network topology.



Article Content

Feb 18, 2026

Understand FC Adapter HBA Drivers Under Linux SCSI

Overview This document offers a general overview of the SCSI subsystem, including the

Jun 27, 2026

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

Jul 19, 2026

Network Cards, Adapters, and NICs Explained: Types

Learn what network cards, adapters, and NICs are. Understand wired vs wireless, PCIe vs

Feb 17, 2026

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 primarily for

Feb 07, 2026

FS Community

Hier sollte eine Beschreibung angezeigt werden, diese Seite lässt dies jedoch nicht zu.

Mar 10, 2026

HBA vs. NIC vs. CNA: What Are Their Differences?

Converged network adapter, short as CNA, is also known as a converged network interface controller (C-NIC). As its

Aug 01, 2025

Fibre Channel Interfaces

Fibre Channel is structured as a set of hierarchical functions, similar to the ISO OSI Reference Model. There are five layers, each

Apr 15, 2026

Fibre Channel (FC) interface

These modules may have Fibre Channel ports, Ethernet/iSCSI ports, or even NVMe-over-FC support. They ensure high-speed data

Feb 03, 2026

Overview of Fibre Channel | Junos OS | Juniper Networks

FCoE transports native FC frames over an Ethernet network by encapsulating the unmodified frames in Ethernet. It also provides

Sep 22, 2025

What is a Network Interface Card (NIC) and How Does it Work?

Main Functions of a Network Interface Card Some of the main roles of a Network Interface Card (NIC) are as follows:

Feb 11, 2026

Fibre Channel

Fibre Channel was designed as a serial interface to overcome limitations of the SCSI and HIPPI physical-layer parallel-signal copper

Apr 28, 2026

What Is a Network Interface Card? Key Functions,

Learn what is a network interface card with our guide on NIC functions connecting devices

Mar 05, 2026

What Is Network Interface Card: Purposes, Functions & Types

A Network Interface Card (NIC) is a hardware component that provides network connections for a device, we will

Feb 21, 2026

Inside a Modern Fibre Channel Architecture – Part 1

FC-0 the physical interface (FC-0) consists of transmission media, transmitters, and receivers and their interfaces

Oct 10, 2025

Fibre Channel (FC) interface

A Fibre Channel (FC) interface consists of multiple components that work together to facilitate high-speed data transfer in Storage

Nov 10, 2025

The difference between fiber network card and HBA card

The corresponding interfaces are SC, ST, and LC. The electrical port currently used interface type RJ45, used to

Feb 25, 2026

Fibre Channel Layers

5 bre Channel FC-4 Overview: Fibre Channel FC-4 is the fourth layer of the Fibre Channel (FC) protocol stack. It

Jan 11, 2026

What is a Fibre Channel switch? | Definition from TechTarget

A Fibre Channel (FC) switch is a networking device that's compatible with the FC protocol and designed for use in a

Sep 14, 2025

Fibre Channel (FC) vs Ethernet Cards: Differences

What is a Fiber Channel (FC) card? A Fibre Channel (FC) card—often called an

Oct 24, 2025

Fibre Channel

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

Jan 21, 2026

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

Sep 09, 2025

How do i set up a Fibre Channel HBA adapter as a network device?

A Fibre Channel HBA is a network interface (for a Fibre Channel network/fabric), as well as a host adapter. However,

Apr 27, 2026

Storage Networking 101: Understanding Fibre Channel

They are: FC-0: The interface to the physical media; cables, etc FC-1: Transmission protocol or data-link layer, encodes and

Jun 22, 2026

Fibre Channel Functional Overview

Fundamentally, Fibre Channel allows two or more nodes to communicate by sending information units (IUs) to each other. This is

Sep 12, 2025

The Difference Between Ethernet Cards and Fibre Channel (FC)

A Fibre Channel (FC) card, also known as an HBA (Host Bus Adapter), is primarily designed for use in Storage Area

Dec 28, 2025

Network interface controller

It is primarily used with high-speed network interfaces, such as Gigabit Ethernet and 10 Gigabit Ethernet, for which the processing

Jan 13, 2026

Fibre Channel Interfaces

The committee charged with developing Fibre Channel technology was established within the American National Standards Institute

May 31, 2026

Flyriver: Fibre Channel Network Interface Cards: A Deep Dive

The Role of the FC Network Interface Card The FC NIC, also known as a Host Bus Adapter (HBA) in the FC context, is the hardware

Jan 17, 2026

Fibre Channel (FC) vs Ethernet Cards: Differences

In the fields of networking and data storage, two key components play a crucial role:

Apr 22, 2026

4.2 Fibre Channel (FC) SAN Components

The key FC SAN physical components are network adapters, cables, and interconnecting

Jan 09, 2026

The Difference Between Ethernet Cards and Fibre Channel (FC) Cards

In the world of networking and data storage, two key components play pivotal roles: Ethernet cards and Fibre

Apr 08, 2026

What Is Fibre Channel? | Enterprise Storage Forum

One of the main functions of the Fibre Channel Protocol is to carry SCSI and eliminate many of its server-to-storage

Mar 09, 2026

Flyriver: Fibre Channel Network Interface Cards: A Deep Dive

In the realm of high-performance data storage and networking, the Fibre Channel (FC) Network Interface Card (NIC) plays a pivotal

Oct 20, 2025

Understanding Fibre Channel Terminology

Physical adapter that combines the functions of a Fibre Channel host bus adapter (HBA) to process Fibre Channel

Nov 30, 2025

Fibre Channel over Ethernet (FCoE) Configuration Overview on Red

FCoE Initiator Protocol (FIP) Fibre Channel over Ethernet (FCoE) Initialization Protocol (FIP) is responsible to establish and maintain

Dec 18, 2025

What is Fibre Channel? History, layers, components and design

Since then, two more related standards have emerged: Fibre Channel Physical Interface (FC-PI). This describes the

Jan 14, 2026

Overview of Fibre Channel | Junos OS | Juniper Networks

Understanding FCoE and FIP Session High Availability Understanding FIP Functions Understanding FIP Implementation on an

Jul 28, 2025

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)

Oct 27, 2025

Understanding Fibre Channel Terminology

Understanding FCoE and FIP Session High Availability Understanding FIP Functions
Understanding FIP

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://ntmmgroup.co.za>

Email: sales@ntmmgroup.co.za

Phone: +27 82 471 2596

Address: Unit 7, Optic Park, 24 High-Tech Lane, Century City, Cape Town,
7441, South Africa

This document is for informational purposes only. Specifications subject to
change without notice.

