

ROCE Optical Module Product Introduction



Overview

A 25 Gbit/s RoCE interface module connects a storage device to an application server or forwards data within a storage device. The optical module rate must be consistent with that on the interface module label. The RDMA over Converged Ethernet (RoCE) IP developed by Microchip Technology is a high-performance, low-latency network interface solution designed to enhance data center and cloud computing environments. RoCE, which stands for RDMA over Converged Ethernet, enables Remote Direct Memory Access. Remote direct memory access (RDMA) enables server-to-server data movement directly between application memory without CPU involvement. Using any of the following IBM RoCE Express adapters, RDMA technology is available on Ethernet. RDMA technology provides the capability to allow hosts to logically share memory.

Article Content

rdma over converged ethernet

By following this format, the article on RDMA over Converged Ethernet can provide a comprehensive overview of the technology, explain its architecture and use cases, discuss deployment ...

RDMA over Converged Ethernet (RoCE)

RDMA over Converged Ethernet (RoCE) is a network protocol that leverages Remote Direct Memory Access (RDMA) capabilities to accelerate communications between applications hosted on clusters ...

IBM RoCE Express2 and RoCE Express3

RoCE stands for RDMA (Remote Direct Memory Access) over Converged Ethernet. Using any of the following IBM RoCE Express adapters, RDMA technology is available on Ethernet. RDMA ...

Frequently Asked Questions

The IBM Z Wavelength Division Multiplexer (WDM) vendor product qualification process for Multisite Sysplex and GDPS solutions has been enhanced to include RoCE Express and SMC-R testing as ...

25 Gbit/s RoCE Interface Module

Function A 25 Gbit/s RoCE interface module provides four 25 Gbit/s optical ports. The optical module rate must be consistent with that on the interface module label. Otherwise, the storage system ...

RoCE IP User Guide

RoCE is an RDMA protocol designed to facilitate low-latency, high-throughput data transfers over Ethernet networks. Unlike traditional data transfer methods that involve multiple layers of processing, ...

Unleash Your Network: A Deep Dive into RoCE (RDMA over ...

This post will demystify RoCE, explore its two versions, and show you how it's revolutionizing high-performance computing (HPC), AI/ML workloads, and cloud infrastructure.

RDMA over Converged Ethernet

Remote direct memory access (RDMA) enables server-to-server data movement directly between application memory without CPU involvement. RDMA over converged Ethernet (RoCE) extends this ...

RDMA over Converged Ethernet Feature in Ethernet Network Adapters

RoCE functionality is available for both user mode and kernel mode applications. RoCE is supported under Linux, Windows, and VMware operating systems. When RoCE is enabled, the ETS ...

How to Choose Between InfiniBand and RoCEv2

Compared to InfiniBand, RoCE has greater versatility and relatively lower cost. It can be used not only to build high-performance RDMA networks, but also for traditional Ethernet.

Contact Us

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