

Cloud Data Center Interconnection Solution



Article Overview

Data Center Interconnection (DCI) enables seamless, high-speed connectivity between multiple data centers, supporting cloud applications, disaster recovery, and distributed workloads.

Overview of DCI

Data Center Interconnection (DCI) refers to the networking solutions that connect two or more data centers over short, medium, or long distances using high-speed packet-optical connectivity . This connectivity allows geographically separated data centers to operate as a unified infrastructure, enabling resource sharing, workload balancing, and disaster recovery . DCI is essential for enterprises and cloud providers that operate multi-cloud, hybrid cloud, or distributed infrastructures, ensuring high availability, scalability, and reliability .

Key Technologies

DCI leverages several technologies to achieve high-performance connectivity:

- Wavelength Division Multiplexing (WDM): Transmits multiple data streams over a single fiber using different wavelengths. Dense WDM (DWDM) supports long-haul, high-capacity links, while Coarse WDM (CWDM) is suitable for shorter distances .
- Coherent Optics: Provides ultra-high-speed transmission, with speeds up to 800 Gb/s per wavelength, ideal for large-scale cloud and enterprise networks

Article Content

Cloud interconnect: What you need to know

With many businesses turning to cloud-based solutions, we developed this blog to help explain the complex nature of cloud

Network & Cloud Connectivity Solutions | Data Center Interconnection

Find scalable, flexible cloud connectivity solutions for choice and control you need to deploy and manage your products and services.

Data Center Connectivity | NTT DATA Group

As a carrier-neutral data center operator, our connectivity services provide high-availability, secure solutions that interconnect with

Data center interconnection for the cloud era

Introduction The global data center market is experiencing huge demand driven by the cloud, enterprise digital transformation and

Networking Solutions for Cloud & Data Center Interconnect

Tejas Networks provides high-performance DWDM, OTN, and DCI solutions for cloud and data center environments, supporting

Data Center Optical Interconnection | High-Bandwidth Transmission ...

Data Center Optical Interconnection Services between super and large data centers, such as data synchronization and service

Data Center Company & Enterprise Network Technologies | Equinix

Equinix data centers unite clouds, networks and SaaS in one global ecosystem. Putting your AI closer to the data and the compute it

Virtual Interconnection: New Technology For Cutting Edge Data Centers

It is impractical for regional cloud data centers to provide the sub-second response times that many new applications require. Edge

Data Center Interconnect Solution Overview

Data Center Interconnect Solution Overview The term DCI (Data Center Interconnect) is relevant in all scenarios where different

Data Center Interconnect Solutions | Hyperscale and ...

Data center interconnect refers to the solutions and technologies that link multiple data centers, enabling them to function as a

Interconnection Structures, Management and Routing Challenges in Cloud ...

This work provides the readers with a survey that presents the management challenges, design and operational constraints of the

Digital Realty | Data Center Services & Colocation

With Digital Realty, you can leverage our full interconnection capabilities across our global ecosystem including data centers,

400G Spine-Leaf Network for Cloud Data Center Interconnection

Based on customer application scenarios, FS delivers professional network architecture planning and product selection to build

Contact Us

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