

Carrier-grade data center routers



Overview

Carrier-grade routers, once the domain of telecom backbones, are now critical for modern data center interconnect (DCI), cloud backbones, and hybrid cloud gateways. This creates a dynamic market where performance, scalability, and software-defined intelligence are paramount. The data center gateway connects to the spine layer in a mesh topology in a way that's similar to a leaf switch. The Nokia Data Center. From AI supercomputing to secure networking and hybrid cloud infrastructure, our enterprise-grade product portfolio powers some of the most ambitious organizations on the planet, in industries ranging from government research to global retail. Home Industry Solutions Carrier Our Solutions IP Network Carrier-grade Flag Products H3C's carrier-grade flagship product. Huawei provides carriers with solutions covering cloud data center networks, cloud leased lines, cloud managed campuses, and network security. For example, when I raise a Change Request (CR) in ServiceNow to configure a new VLAN ID and VLAN name, the goal is that: ServiceNow sends the CR data to DNAC DNAC applies the configuration using destination address or hostname <cr> gw1#ping ip 192.



Article Content

Strategic Roadmap for Carrier Class Router and Switch Industry

The carrier-class router and switch market is booming, projected to reach \$40 billion by 2033, driven by 5G, cloud computing, and IoT. Explore market trends, key players (Cisco, Huawei,

Juniper MX304 Universal Router

Juniper's MX304 Universal Routing Platform helps network operators scale effectively with optimized form factor, carrier-grade platforms, and multiservice

MX Series Routers | HPE Juniper Networking US

Transform your business with MX Series universal routers. The AI-native platform provides industry-leading system capacity, density, automation, and performance.

Cisco Network Convergence System (NCS) 5500 Series

Looking for a network convergence system that has industry-leading density for high-scale WAN aggregation? Cisco NCS 5500 Series is designed to cloud scale. See

Cisco ASR 9903 Compact High-Performance Router Data Sheet

As a fully redundant, high-performance multi-purpose platform, the ASR 9903 router can be used in a wide range of customer's scenarios and use-cases: business PE, metro aggregation,

Carrier Grade Router Data Center: High-Performance Solutions

Looking for carrier grade router data center solutions? Discover top-tier, high-performance routers with 100Gbps throughput, MPLS support, and data center optimization. Click to explore

Carrier Network Switch & Enterprise Gateway

Huawei provides the industry's most complete portfolio of Ethernet switches, AR Series Routers, WLANs, and network security products for the carrier B2B market.

HPE Networking routers: High-performance,

Transform network operations with HPE Juniper Networking high-performance, programmable, and sustainable routers—delivering scalability, security, and

6 Best mesh Wi-Fi routers for large businesses in 2025

Get reliable coverage, high speeds, and enterprise Wi-Fi performance with the best router for large business networks in 2025.

Secure Routers for Small and Medium Enterprises

Secure your growing business with Meraki MX and Cisco Secure Routers. Gain built-in security, simplify network management, and scale with one platform.

Network Routers | HPE Juniper Networking US

Forming the foundation of core routing architectures, PTX Packet Transport Routers provide ultrahigh power efficiency, scale, and performance for 100G, 400G, and

Cisco Carrier Routing System

Cisco Carrier Routing System - Learn product details such as features and benefits, as well as hardware and software specifications.

HPE Networking Data Center: AI-ready data center networks

Provides carrier-grade, modular routing built for large-scale data center and service provider deployments. Delivers exceptional performance, scalability, and resiliency to support massive traffic

Carrier Routing System

Carrier Routing System (CRS) is a modular and distributed core router developed by Cisco Systems Inc that enables service providers to deliver data, voice, and video services over a scalable IP Next

The Top 25 Routers for Enterprise in 2026

The HPE HSR6800 Router Series is an advanced collection of high-performance routers designed for a variety of applications, such as data center interconnection and enterprise WAN core functionalities.

Carrier-grade Flag Products-H3C

This product series is renowned for its stability, reliability, and advanced technology, delivering outstanding network services for telecommunications carriers.

Compare Cisco Routers

Compare Cisco enterprise router models side by side in a features comparison chart to find the right branch, edge, or virtual router for your needs.

Carrier Grade Routers — Juniper Authorized Partner

Shop Juniper Authorized Partner Carrier Grade Routers — compare pricing, check real-time stock, and buy from an authorized dealer with fast shipping.

BCM88860 StrataDNX 28.8 Tb/s StrataDNX Ethernet Switch Router

The BCM88860 Elastic Pipe™ packet processor is C++ programmable, with built-in support for data center and carrier networking applications. The large-on-chip, centralized, and fungible databases

Cisco ASR (Aggregation Services Routers) Series

The Cisco ASR (Aggregation Services Routers) series is designed for high-performance, scalable routing solutions used by service providers, enterprises, and data centers that need to

Data Center Gateway

A data center gateway is a carrier-grade router that is designed to handle advanced networking functions for connecting a data center fabric to the outside world.

Cisco Enterprise Router Selector

Cisco WAN Appliance Migration and Enterprise Router Selector Explore our router selector to swiftly identify and migrate to the Cisco enterprise router that best fits

Carrier-H3C

H3C S12500R is a switch router product launched by H3C for WAN, 5G bearer network and data center DCI interconnection scenarios. Forwarding performance

Best Enterprise Routers of 2026

HPE FlexNetwork HSR6800 Router Series Hewlett Packard Enterprise The HPE HSR6800 Router Series is a family of high-performance, multiservice routers designed for data center interconnection,

What is carrier-grade?

Learn what carrier-grade means, why network providers care about carrier-grade experiences, and how to create the best experiences.

Enterprise Routers | Huawei Enterprise

Accelerating enterprise digital transformation with high-capacity, reliable, and energy-efficient routers that are easy to maintain. Learn more.

Cisco Industrial Routers

Cisco industrial routers are built to handle tough conditions and offer advanced cybersecurity capabilities including next generation firewall (NGFW).

Best Data Center Networking Equipment and Solutions 2026

Best Data Center Networking Equipment and Solutions 2026 Data Center Networking Equipment include managed switches and routers for creating and controlling networks, ensuring that devices

Cisco Carrier Grade Services Engine Module Data Sheet

The Cisco ® Carrier-Grade Services Engine (CGSE) for the Cisco Carrier Routing System (CRS) is an ideal platform for these services. The Cisco

Contact Us

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