

High-density server rack system upgraded version available now



AI Overview

Modern high-density server racks from Cisco, Dell, Vertiv, and Delta offer upgraded performance, modularity, and AI/HPC-ready configurations for immediate deployment.

Cisco UCS C-Series Rack Servers Cisco's UCS C-Series provides 1RU and 2RU rack servers optimized for high core density and data-intensive workloads. These servers support up to 60 cores per socket, 12 TB memory with Intel Optane PMem, and GPU-dense configurations for AI training and inference, including Blackwell Ultra-powered HGX B300 options. They offer flexible storage with up to 28 SAS/SATA or NVMe drives and support for Cisco UCS VIC 15000 Series adapters or third-party networking options. The platform emphasizes scalability, energy efficiency, and simplified management via UCS Manager and Intersight, making it suitable for hybrid cloud and on-premises AI workloads (Cisco UCS C-Series).

Dell Integrated Rack Scalable Systems Dell's Integrated Rack Scalable Systems combine PowerEdge servers, PowerSwitch networking, and PowerCool liquid cooling into a unified, high-density rack solution. These systems are designed for AI factories and HPC environments, supporting up to 25,000 nodes and 504 kW per ORv3 rack. The PowerEdge XE9712 with NVIDIA GB300 NVL72 accelerators enables large-scale AI workloads. Dell's PowerCool eRDHx liquid cooling reduces energy consumption by up to 60% and lowers operational costs by up to 31%. The racks are fully integrated with Dell OpenManage Enterprise for automated configuration, updates, and security management (Dell Integrated Rack Systems).

Vertiv VR Rack The Vertiv VR Rack is a high-density, flexible solution supporting servers, storage, networking, and power distribution units. Available in 42U and 48U heights with widths of 600mm or 800mm and depths up to 1200mm, it features 77% perforated front and rear doors, high-de...

Article Content

InfraSuite Modular Server Rack System

Delta is proud to introduce its modular rack cabinet designed for maximum performance, convenience, flexibility and safety in high density IT room environments.

High-Density Server Rack – AI-Ready 44U / 48U Cabinet

Gaw Technology's high-density server rack is engineered to keep pace. Available in 44U and 48U heights, each cabinet features a 24-inch width and a cavernous 48-inch depth—perfect for full-length

FinancialContent

This storage system delivers industry-leading compute performance, memory density with scalability and high-speed data transfer rates to run demanding applications. These capabilities

Deploying liquid cooling in the data center

High-density racks take up less white space, but the proportion of mechanical to white space in high-density, liquid-cooled data centers varies. For example, replacing 100 10 kW racks with 20 50 kW

Liquid cooling solutions for AI and high-density data

Next-gen cooling for high-density workloads Schneider Electric's data center liquid cooling solutions are purpose-built for AI workloads, GPU servers, and

How to Choose a Server CPU: Expert Guide 2026

Practical 2026 guide to selecting a server CPU: cores vs frequency, cache, DDR5, PCIe lanes, 1P vs 2P/NUMA, licensing and TCO—plus real

DELL Poweredge R550 Server: Price & Configurator

Dell PowerEdge R550 is a mid-range 2U dual-socket rack server based on 3rd Generation Intel Xeon Scalable processors and DDR4 memory. It sits between

HPE Rack Servers

HPE Rack Servers deliver scalable performance with secure rackmount storage servers for AI & business workloads. Buy HPE Rack Servers and explore its price, models and specs.

Rack Servers | 1U to 5U Rackmount Servers

Available in 1U to 5U rack densities, with support for single and multi-socket configurations for x86 processors from AMD and Intel, as well as ARM

BRKOPT-2699

Switch silicon bandwidth growing due to higher Radix and faster Serdes speeds
Switch ASIC throughput growing: 6.4 Tbps to 12.8 Tbps to 25.6 Tbps to 51.2 Tbps
Optics increasing from 40Gbps to 100G

Nvidia Scrambles to Deny Kyber Delay, Did Asia's PCB Supply Chain ...

Suppliers of 800V high-voltage DC power architectures will also be affected, as the Kyber rack was designed for high power density, with its power architecture heavily reliant on 800VDC. A

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Rack Server Solutions for Enterprise & Data Center

Flexible rack server solutions for a range of enterprise workloads and data center workloads including HCI, media delivery, cloud and Edge

Vertiv High Density Cooling Solutions

Explore High-Density Liquid Cooling Solutions in Virtual Reality Orchestrate the thermal system upgrade needed, to support your high-density application, then

APC USA | Schneider Electric United States

APC, a flagship brand of Schneider Electric, provides clean battery back-up power, surge protection, and IT physical infrastructure inside and outside the traditional

Vertiv Unveils High-Density Rack Platform for AI Data Centers

Vertiv launches a high-capacity rack platform optimized for AI and HPC deployments, supporting extreme power densities, liquid cooling, and GPU infrastructure.

✂ AMD EPYC 9005 vs EPYC 9004: Should You Upgrade Servers in

A practical comparison of AMD EPYC 9005 and EPYC 9004 for 2026–2027 servers: cores, memory, virtualization, AI inference, compatibility, and upgrade economics.

Vertiv VR Rack | High Power Density Racking Systems

Enhance your IT infrastructure with the VR Rack, with airflow and cable management, in an efficient, high power density design.

Dell Announces New High-Density Compute and Sto.

Dell has introduced a new integrated rack-scalable system, along with various server, storage, and data management offerings for high-density workloads.

Blade server

Unlike a rack-mount server, a blade server fits inside a blade enclosure, which can hold multiple blade servers, providing services such as power, cooling,

Rack Power Solutions | Server Technology

No matter your rack power requirements, whether average or extra high densities, Server Technology provides high-density rack PDUs designed to support compute-heavy applications.

VR Rack | Vertiv High Power Density Racking Systems

Enhance your IT infrastructure with the VR Rack, which supports everything from servers to KVM switches, in an efficient, high power density design.

Ultra High-Density 4U, 90 Drive Bays, SAS / SATA Rackmount

All Broadberry solutions come with a comprehensive 3-5 year warranty, with a range of upgraded warranty options available. From clip-in slide rails to pre-configured RAID and pre-installed OS, our

Monitoring Coolant Flow in High-Density Liquid-Cooled

Measuring flow in liquid-cooled data center racks is critical as power densities increase and traditional air cooling falls short. This comprehensive

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