

Dell PowerEdge: Optimize power consumption with boosted performance.

Expand Boundaries Beyond Measure

Elevate your data center capabilities to new heights with the innovative Dell PowerEdge R470, R570, R670, and R770 servers, powered by the Intel® Xeon® 6 processors, offering optimized energy efficiency and performance with the latest innovations. Achieving your goals of securely bringing your organization into **Advanced AI** can be easier with Dell high performance computing tailored for optimal power efficiency and cost effectiveness in a large and diverse data centers. Intel® Xeon® 6 processors with built-in accelerators increase the capacity for AI, data analytics, networking, storage, and HPC, allowing you to do more with the same number of virtual cores. Experience new options to solve your real-world problems of deploying innovative platforms into complex environments.

Precision in Design? We optimized for you.

We enable rapid innovation for modern IT, hyperscalers and Cloud Service Providers (CSPs) across various services like IaaS, PaaS, SaaS, AI/ML, Big Data analytics, and IoT, ensuring uninterrupted availability with our latest innovative solutions. The Dell PowerEdge R470 and R570 single-socket and R670 and R770 dual-socket, 1U and 2U rack servers offer advanced technology to help you scale your high-density, scale-out workloads. Designed with optimization, slashing energy costs while maintaining top-notch performance, these servers deliver exceptional performance per watt. Engineering with Intel Xeon 6 Processors and Dell Smart Power and Cooling technology, they deliver a perfect balance for today's modern datacenters. We know how offering versatile configurations help you drive results. The servers offer a range of configurations, including single and dual-socket, 1U and 2U options, various storage form factors, and both front and rear I/O setups to simplify manageability across your data center. These features facilitate swift deployment and easy to streamline system management to save you valuable resources.



Service from the front or rear? We configure for your convenience.

By offering front and rear I/O configurations, you now can choose which best suits your datacenter requirements. The PowerEdge R470, R570, R670, and R770 servers give you more flexibility with strategic advantages. By positioning I/O ports at the front, these servers enable technicians to service equipment directly from the cold aisle, enhancing both comfort and safety. This design not only expedites maintenance tasks but also streamlines cable management, leading to improved operational efficiency. Additionally, it facilitates better airflow and cooling, which can contribute to a more compact data center layout. As a result, the overall footprint of the facility may be reduced, yielding cost savings and a lower environmental impact. The Front I/O feature is a thoughtful innovation that addresses the critical demands of modern data center management, where minimizing downtime and maximizing efficiency are essential.

Tailored to fit? We designed for you.

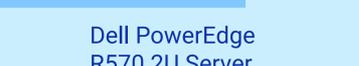


For the intricate needs of modern data centers, PowerEdge servers revolutionize your IT providing advanced computing power, carefully engineered for maximum energy efficiency and cost-effectiveness in diverse and expansive data landscapes.

Maximize efficiency and affordability with our 1U, single socket server for power-packed performance without compromise. Excelling in web and app microservices, data services, virtualization, and scale-out database and offered with flexible solutions featuring GPU support, Front I/O, and DC-MHS hardware architecture.



Dell PowerEdge
R470 1U Server



Dell PowerEdge
R570 2U Server

Elevate high-performance computing with exceptional power efficiency and performance with our 2U, single-socket server. Designed for scale-out database, medium VM density or VDI, and software-defined storage node with various scalability choices.

Drive efficiency in your datacenter through optimized power and balanced performance with our 1U, dual-socket server, designed for high-density deployments, virtualization and microservices, and cloud-native applications. Offered with flexible solutions featuring GPU support, Front I/O, and DC-MHS hardware architecture.



Dell PowerEdge
R670 1U Server



Dell PowerEdge
R770 2U Server

Boost your datacenter's efficiency and performance for maximum virtualization with our 2U, dual-socket server engineered for virtualization and microservices, cloud-native applications, big data analytics, and distributed inferencing support. Choose from our diverse options including GPU support, Front I/O, and DC-MHS hardware architecture.

These new servers mark the debut of the Data Center – Modular Hardware System (DC-MHS) architecture in the Dell PowerEdge portfolio. This DC-MHS specification supports easier server integration into existing infrastructure by standardizing servers, improving design and customer choice. Part of the Open Compute Project, DC-MHS is a collaboration between six companies, including Dell Technologies and Intel, focused on redesigning hardware technology to make data center, edge and enterprise infrastructure more interoperable.

- Equipped with Intel® Xeon® 6 processors, these servers ensure swift and precise processing performance, supplemented by GPU support for enhanced computational power.
- Enhanced I/O flexibility is achieved with front and rear I/O configurations, facilitating seamless serviceability in cold aisle environments.
- Configurable to suit diverse needs, these servers adhere to Industry Standard open designs (DC-MHS), ensuring compatibility and scalability.
- Smart Cooling offers Intelligent cooling solutions featuring multi-vector cooling technology dynamically adapt to changing environmental conditions, complemented by robust power and thermal management tools, ensuring optimal performance and reliability.
- Energy efficiency is designed in for improved air-flow, hot-aisle and cold-aisle placement, and lowered power requirements. Driving down operational costs and TCO, helps you align to your **sustainability** objectives.

“Intel is excited to have Dell Technologies at the forefront of our development on the latest generation of Intel® Xeon® 6 processor, enabling customers across industries to quickly and seamlessly deliver on the promise of high density, efficient compute for AI datacenters of the future,”

Ryan Tabrah,
Vice President & General Manager
Intel® Xeon® Efficient-core Products,
Intel Corporation.

Intel Xeon 6 Processors
Versus
5th Gen Intel® Xeon® Scalable processors

Performance*

Up to 2.3x or +132.14%

Performance Per Watt

Up to 1.6x or +58.34%

First Xeon processor to use Intel's Efficient-cores and will be manufactured on the Intel 3 process.

Security on your mind? We strengthen you.

Discover the robust security features embedded in Dell PowerEdge servers, designed to advance **cybersecurity** and **Zero Trust** maturity within your infrastructure. Powered by Intel Xeon 6 processors, these servers are equipped with advanced hardware-based security capabilities, including virtual machine isolation with Intel Trust Domain Extensions and application protection with Intel Software Guard Extensions. Dell's cyber resilient technologies further safeguard your data center with cryptographic verification, system lockdown, intrusion detection, and robust UEFI boot and firmware protections, all anchored by a silicon Root of Trust and secure erase functionality. These comprehensive security measures not only protect against threats but also bolster your IT defenses, facilitating the swift adoption of a Zero Trust security strategy and ensuring that innovation is never hindered by security concerns.

Wanting to maximize the value of your servers? Our services can back you.

Dell Technologies Services offers global reach across 170 locations and deep expertise amongst 60,000+ employees and partners. To simplify large deployments, maximize our ProDeploy Flex: factory configuration service... allows you to receive your servers pre-configured to your specifications, ready to install, saving over 115 hours⁴ in admin time per 100 servers. To keep your scale servers up and running smoothly, ProSupport Plus for Infrastructure provides a 24x7 complete support solution with an assigned services account manager and priority access to senior support engineers. Dell also offers immediate access to critical parts through the Logistics Online Inventory Solution, providing an cloud-based online web tool that enables you to manage, monitor and automatically replenish your parts inventory stored at your global locations. Explore the range of services we offer at [Dell.com/Services](https://www.dell.com/Services).

1 Open Compute, "Membership Directory," accessed September 28, 2023, <https://www.opencompute.org/membership/membership-directory>.

2, 3 Based on Dell analysis of submitted SPEC_CPU2017 score of 1300 achieved on a Dell PowerEdge R770 and a TDP of 330W with dual Intel Xeon 6780E compared to a score of 560 on Dell PowerEdge H5620 and a TDP 225W with dual Intel Xeon Gold 6448Y processors. Actual performance will vary.

4 Based on a June 2023 Principled Technologies study "A Principled Technologies report: Hands-on testing. Real-world results – Faster and easier server installation with Dell ProDeploy Factory Configuration or ProDeploy Plus Infrastructure services" <https://www.delltechnologies.com/asset/en-us/products/cross-company/industry-market/principled-technologies-prodeploy-and-factory-configuration-services-for-poweredge-whitepaper.pdf>