


Dell PowerEdge Servers

Flexible, purpose-built solutions designed to provide performance across AI, Edge, Scale and Core applications/workloads

Brochure

A hand is shown holding a glowing, futuristic digital interface. The interface features a central cloud icon with two arrows pointing up and down, surrounded by a circular HUD-like border. To the right, a network diagram shows a central node connected to several peripheral nodes, each represented by a server icon. The background is a dark blue with bokeh light effects.

In today's dynamic business environment organizations are increasingly adopting a multicloud strategy. Multicloud provides access to your data with best-in-class compute capabilities for achieving your unique goals. Flexibility is key to success. That's why our portfolio is designed to meet your needs for flexibility and agility. Whether your applications and data reside in the cloud, data centers, or edge environments, Dell's PowerEdge portfolio empowers you to harness the full ease and agility of the cloud. Embrace a future where you have the freedom to optimize performance anywhere, anytime. Your journey to optimal performance starts here.

Accelerate Transformation Anywhere

Business owners face an overwhelming amount of data, decisions, and challenges. To revolutionize their operations and achieve continued success, business leaders require swift decision-making, rapid insights, and real-time analyses. Artificial Intelligence (AI), Machine Learning (ML), High Performance Computing (HPC), and Virtual Desktop Infrastructure (VDI) have become mainstream, increasing the complexity of managing large data centers. The expansion of global and remote workforces necessitates meticulous attention to data center operations and the edge. To address these new demands, organizations need the benefits of edge computing, reduced latency, enhanced security, greater flexibility, and powerful compute capabilities.

Purpose Built, Intelligent, Cyber Resilient, Sustainable

PowerEdge servers are purpose-built and tailored to growing requirements of **AI, edge computing, and scale-out** environments. These servers provide the processing power, GPU/DPU support, and optimized configurations to handle demanding workloads and come equipped with robust management tools for seamless scalability and operational efficiency. Purpose-built PowerEdge servers, enable organizations to fully leverage the potential of AI, edge computing, and scale-out environments to drive innovation, gain actionable insights, and stay competitive in today's digital world.

PowerEdge Servers for AI, Edge, Scale and the Core

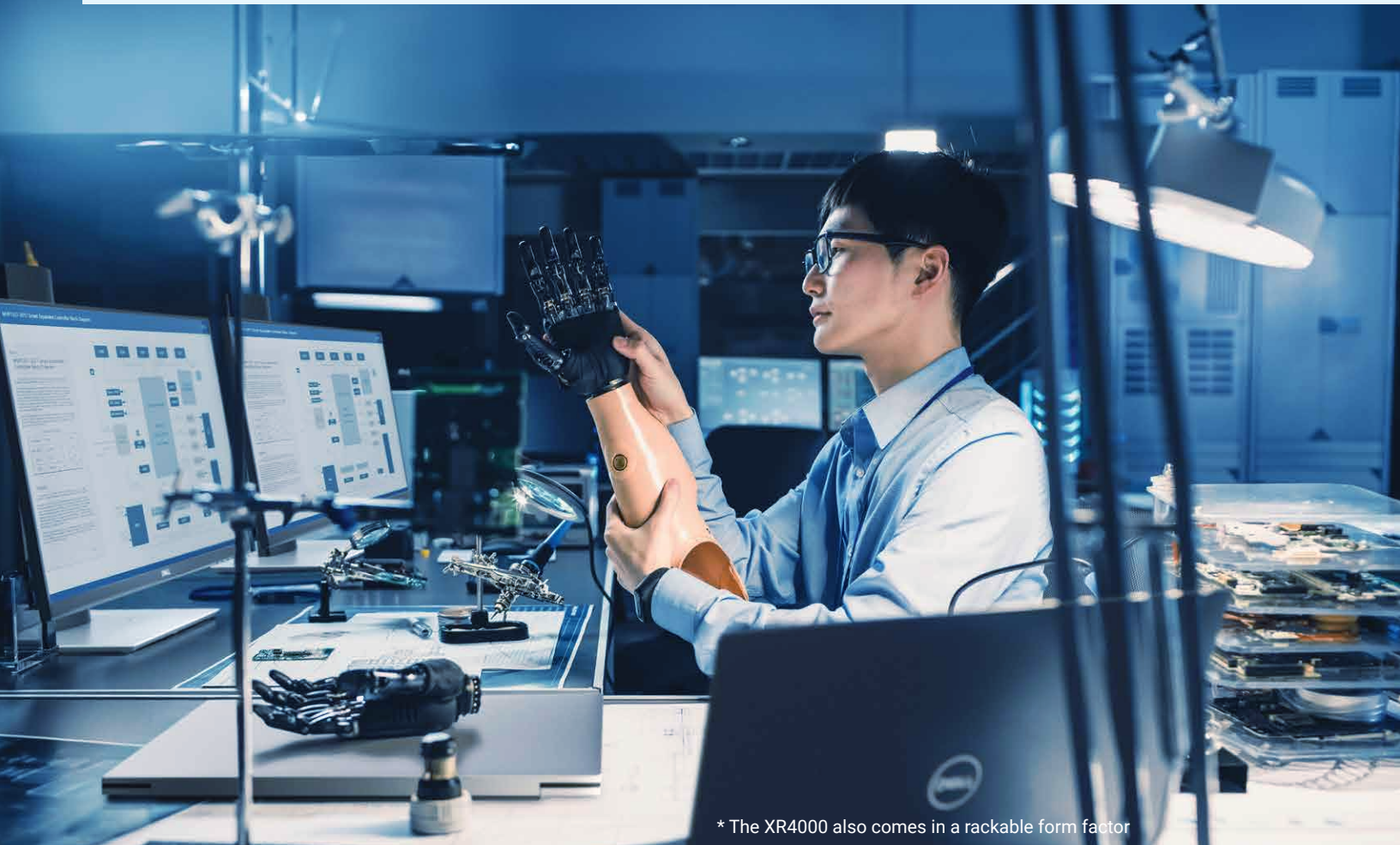
Acceleration Optimized

PowerEdge servers are purpose-built for AI to help customers transform possibilities into data driven insights for smarter outcomes. NVIDIA, Intel and AMD GPU performance accelerators turbo-charge your applications, delivering better economics and breakthrough performance for AI use cases. The XE family of servers supports Large Language Model (LLM), Natural Language Processing (NLP), Machine Learning, Deep Learning and Predictive Analytics use cases for faster insights at lower costs.



Edge

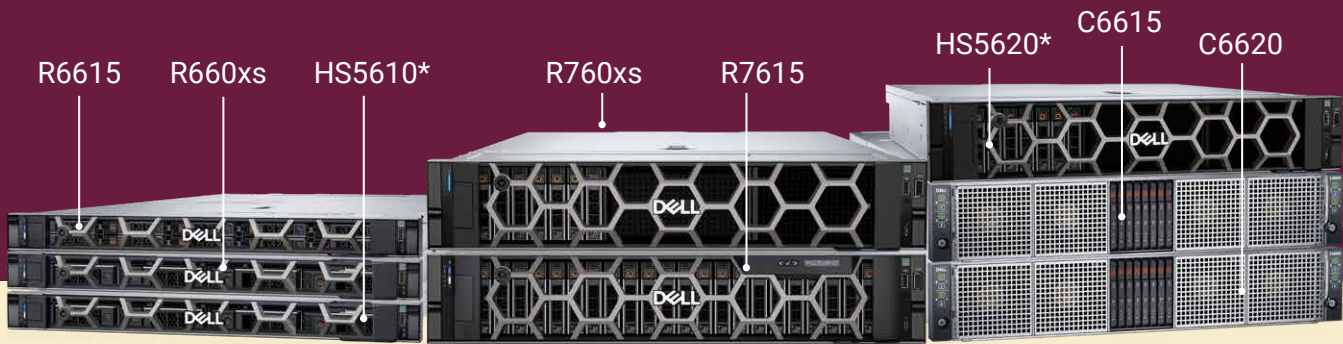
The PowerEdge XR series delivers unparalleled computing power with a compact, short-depth design, perfect for field cabinets and racks. Front-facing I/O facilitates easy servicing in tight spaces. Plus, their shock, vibration, dust, and thermal resistance make them ideal for harsh and unpredictable edge environments. With industrial-grade components and high-performance capabilities, these servers ensure reliability for edge deployments in retail, manufacturing, transportation, defense industries and more.



* The XR4000 also comes in a rackable form factor

Scale

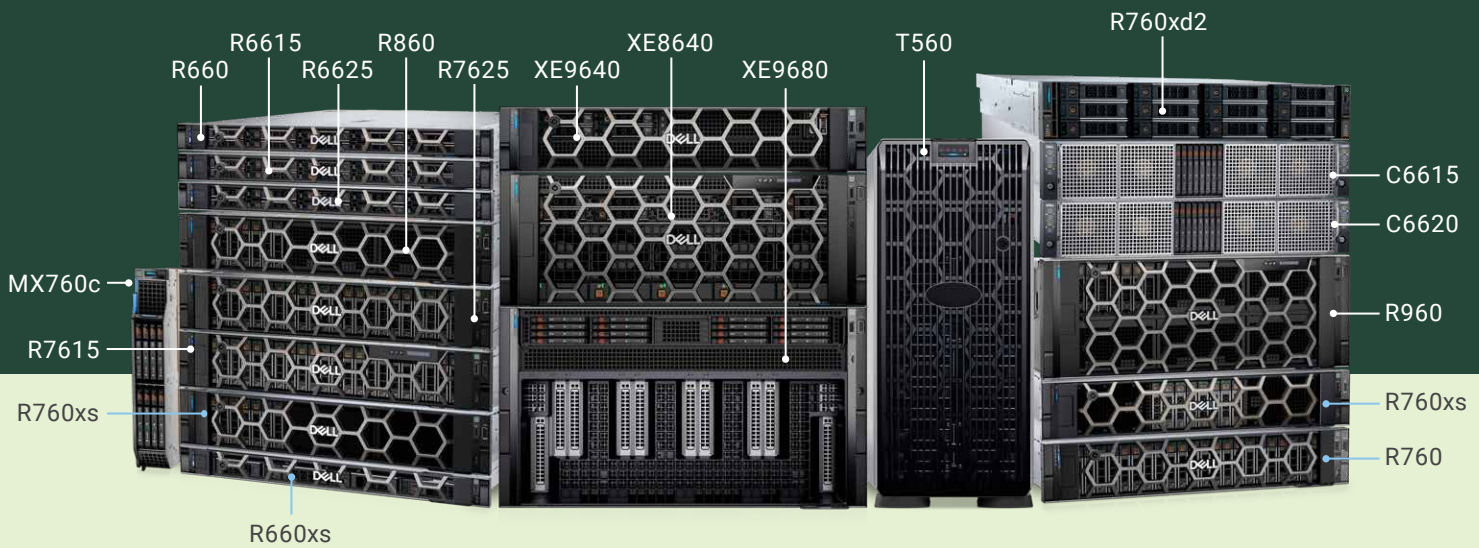
From the unique requirements of Cloud Service Providers (CSPs) to the scale needs of enterprises, PowerEdge's purpose-built and cyber resilient servers blend scalable performance with resource efficiency, to optimally balance your operations. The servers can be configured to unleash the precise amount of processing power needed, ensuring peak performance across the board, even for the most demanding workloads. And, for CSPs managing multi-vendor data centers, we offer Dell Open Server Manager built on the robust OpenBMC™ platform. For the rest we have best of breed enterprise management with Dell OpenManage™ systems management portfolio for efficient management of the IT infrastructure.



**Learn more about the Hyperscale Next program to find out if you are eligible to participate.*

Core

The latest generation of PowerEdge servers, built for the data center, are designed to help organizations execute their goals while empowering people to focus less on infrastructure and more on turning their ideas into a competitive advantage. These servers, powered by fourth-generation Intel® Xeon® scalable processors and fourth-generation AMD EPYC™ processors, deliver AI horsepower, smart cooling capabilities, and energy efficiency. Offering reduced power consumption than previous generations, the latest PowerEdge servers are also EPEAT Silver and Bronze registered, and ENERGY STAR® rated.



Fortify your Business with Security-First Solutions

Security is paramount in Dell PowerEdge server design, ensuring your critical data and applications remain shielded from ever-evolving cyber threats. With PowerEdge servers, you can confidently safeguard your business and customer information, fostering a secure and compliant IT environment. Dell's comprehensive approach to [security](#) begins with the PowerEdge Silicon Root of Trust, which ensures server integrity from the moment it boots. This hardware-based protection extends to features like Cryptographic signing and System Lockdown, preventing unauthorized updates or modifications to the BIOS and firmware. Additionally, PowerEdge servers are equipped with the exclusive iDRAC (integrated Dell Remote Access Controller) with Lifecycle Controller, facilitating secure remote server management. Dell's OpenManage™ and CloudIQ™ solutions further offer a unified console for monitoring, managing and securing servers across your infrastructure. These robust features help create a secure foundation for enabling a zero-trust environment, ensuring data confidentiality, integrity, and availability, and fortifying your business against ever-evolving threats.

Rest Easier from Day One with Dell's Comprehensive Services

The Dell services portfolio spans the entire lifecycle of your PowerEdge servers. Dell Technologies Services has a global reach across 170 locations and deep expertise amongst over 60,000 employees and partners that speed time to value, maximize uptime and secure your systems. When you want to get your servers up and running quickly and smoothly, ProDeploy for Infrastructure provides expert planning, 24x7 onsite or guided remote installation and project documentation. To simplify your large deployments, receive your servers configured to your specifications with ProDeploy Factory Configuration. Data Migration Services efficiently move data from where it is to where it will drive innovation. ProSupport Plus for Infrastructure proactively improves the performance and stability of your business-critical systems through proactive issue detection, automated support, predictive analytics, and the right expertise for your organization. Explore the entire range of [comprehensive services](#) Dell offers to get the most from your PowerEdge servers.

New Capabilities and Technologies for the Next Generation

The newest PowerEdge servers offer purpose-built solutions for AI, edge computing, and scale-out environments. These servers deliver high performance, flexibility, robust security features, and efficient management tools to meet the diverse needs of organizations. With the latest innovations in processors, memory, accelerators, cooling, and cybersecurity, PowerEdge servers empower businesses to unlock the full potential of their data-driven operations. Embrace the future with PowerEdge servers and accelerate your transformation anywhere, anytime.

Learn more at Dell.com/PowerEdge