



Build for What's Next: A Guide to Modernizing Your Business with PowerEdge Rack Servers

Unlock Agility, AI, and Growth with PowerEdge Servers featuring Intel® Xeon® Processors



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Your Next Chapter of Growth Starts Here

Every business has a vision for the future—to serve more customers, to innovate faster, and to lead in its field. But achieving that vision depends on the strength of your technology foundation. As your organization grows, the demands on your IT infrastructure multiply, and the systems that once supported you can begin to hold you back.

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Modern IT isn't just about keeping the lights on—it's the engine that fuels bold ideas, customer experience, and lasting business impact.”

To move forward with confidence, you need technology that not only keeps pace with your ambition but actively fuels it. Modernizing with Dell PowerEdge rack servers with Intel® Xeon® processors provides the engine for your next chapter. It's about creating an infrastructure that is agile, secure, and ready for the opportunities of tomorrow, empowering you to turn your goals into reality.



The Limits of Yesterday's Technology

Relying on outdated infrastructure is like trying to navigate a highway in a horse-drawn carriage. It creates inefficiencies that slow down progress and limit your potential.

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Moving to PowerEdge rack servers can reduce your rack space requirements by up to

80%,
giving you room to grow without expanding your footprint.”

- **Data Silos:** When information is trapped on separate systems, it's impossible to get a complete view of your business. This fragmentation stalls decision-making and innovation.
- **Performance Bottlenecks:** Slow applications frustrate employees and disappoint customers. As workloads grow, legacy hardware simply can't keep up, creating a drag on productivity.
- **Security Vulnerabilities:** The cyber threat landscape is constantly evolving. Older systems often lack the sophisticated defenses needed to protect your most valuable assets: your business and customer data.

The Power of Modernization:

Upgrading to PowerEdge rack servers can help reduce rack space by up to 80% compared to legacy systems, freeing valuable real estate in your environment for future growth. Modern PowerEdge designs also optimize power use, which can improve energy efficiency and help lower operating costs across your organization.



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PowerEdge servers deliver up to 3.5x more built-in security features than leading competitors—from factory to datacenter.”

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OpenManage automation can save up to 150 minutes of management time per 100 servers.”

The PowerEdge Rack Advantage: Engineered for Progress

Dell PowerEdge rack servers transform IT from a business constraint into a strategic asset. They are engineered to provide a powerful, standardized platform that helps you grow with confidence.



Purpose-Built for Growth

Build an infrastructure that scales as your ambition does. The PowerEdge portfolio offers flexible configurations that adapt to your workloads, ensuring you have the power you need, when you need it.



Cyber-Resilient by Design

With a silicon-based Root of Trust and multi-layer security, PowerEdge servers help guard your data from evolving threats. Security is integrated into every phase of the product lifecycle, supporting advanced Zero Trust principles and safeguarding business continuity.



Intelligent Automation

The Dell OpenManage™ portfolio automates and streamlines server management, helping your IT team save up to 150 minutes per 100 servers. This means more time for strategic projects and less time on routine tasks.

Meet Your Modernization Team: The R260 & R360

The Reliable Foundation

The PowerEdge R260 and R360 servers are the perfect entry point for businesses looking to centralize data and run core applications with confidence. The R260 is a space-saving solution for constrained environments, while the R360 offers balanced expansion. Both feature the latest Intel® Xeon® E-series processors and support up to 128GB DDR5 memory, ensuring high-speed, reliable performance for daily business workloads. Thanks to PCIe Gen4 and GPU support on the R360, you can future-proof your investment to handle evolving business needs.



DDR5 memory delivers up to 40% faster speeds for your daily workloads, powering collaboration and productivity.”

Best For:

File, print, and web hosting

Small business databases

Collaboration and email

Affordable compute with modest GPU needs (R360)

Key Stats

PowerEdge R260 and R360 deliver proven reliability for SMBs, providing up to 40% faster memory speeds with DDR5 compared to previous generations.

With compact designs and energy-efficient operation, these servers are ideal for reducing operational costs while maintaining enterprise-grade performance.



Meet Your Modernization Team: The R470 & R570

The Scalability Enablers

PowerEdge R470 and R570 servers are designed to deliver maximum efficiency and performance for growing businesses. Featuring Intel® Xeon® 6 processors, both models help optimize power consumption, providing high performance-per-watt for everyday and advanced workloads. In dense rack environments, the 1U R470 stands out for space-saving deployment, while the 2U R570 allows for greater GPU flexibility, making it a strong choice for AI and analytics workloads. By consolidating your infrastructure with these servers, you can achieve more with less—lower energy costs, reduced rack space, and seamless workload scaling.

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The R570's versatile 2U form factor is ideal for businesses expanding analytic and AI workloads.”

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A single R470 can replace multiple legacy servers—helping you save up to 65% in energy costs and free up valuable rack space.”

Best For:

Scaling virtualization and analytics

High performance-per-watt efficiency—ideal for dense rack environments

AI workloads with larger GPU support (R570)



Meet Your Modernization Team: The R670 & R770

The Performance Accelerators

When you are ready to unlock the full power of your data, the PowerEdge R670 and R770 are your launchpad. These high-performance servers are purpose-built for the most demanding workloads, delivering up to 3.35x the performance of previous-generation platforms—ideal for businesses looking to accelerate results with confidence. Both models feature dual Intel® Xeon® 6 processors and benefit from advanced thermal designs that maintain superior, consistent performance even as workloads scale. The 1U R670 provides maximum performance and flexibility in dense environments, while the 2U R770 is engineered for virtualization, microservices, and big data analytics without compromise.

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Advanced power and cooling means consistent uptime—even under full load, with lower operating costs.”

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R670 and R770 with Intel® Xeon® 6 processors deliver up to 3.35x improved performance compared to earlier models.”

Best For:

AI and machine learning

Cloud-native applications and big data analytics

High-performance computing (HPC)

Performance-critical workloads

Key Stats

Up to 3.35x improved performance over previous-generation servers

Advanced cooling and power efficiency for high-density, continuous operation



Finding Your Fit: Choosing the Right Server

Each PowerEdge rack server is designed to support your journey, whether you're just starting to centralize or are ready to deploy advanced AI. While their capabilities overlap, each has unique strengths.

- The R260/R360 are your reliable entry points for core tasks.
- The R470/R570 offer the efficiency to manage diverse and growing workloads.
- The R670/R770 deliver the raw power needed for cutting-edge applications, with 3.35x improved performance over predecessors.

All models provide a clear upgrade path, ensuring that your infrastructure can evolve alongside your business strategy.



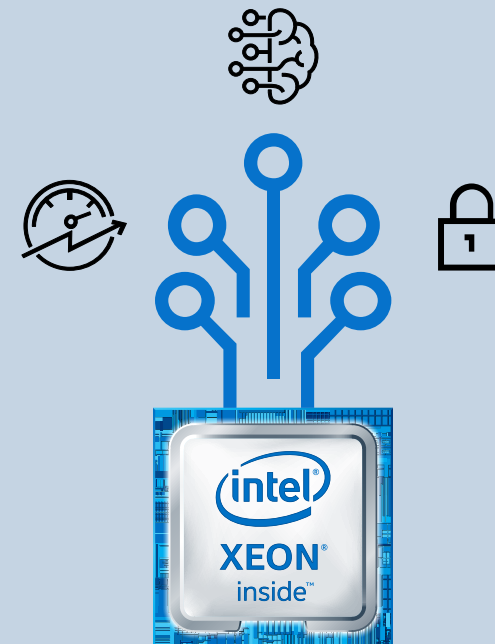
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Intel® Xeon® built-in AI acceleration can deliver up to 1.56x faster AI inferencing—enabling timely insights and personalized customer experiences.”

The Intel® Xeon® Engine: Powering Your Innovation

At the heart of every PowerEdge rack server is Intel® Xeon®—built to drive your business forward. With these processors, you gain industry-leading capabilities designed for today's fast-moving demands:

- **Accelerated AI:** Intel® Xeon® processors feature built-in AI acceleration, enabling up to 1.56x faster AI inferencing compared to previous generations (source: Intel). This means your predictive analytics and customer personalization run smarter and more efficiently, right out of the box.
- **Consistent Performance:** High core counts and next-gen DDR5 memory support deliver responsive multitasking for employees and customers. PowerEdge R670 and R770 servers with Intel® Xeon® 6 processors provide up to 3.35x improved performance over earlier models, maximizing productivity as your workloads expand.
- **Hardware-Enhanced Security:** Stay protected with Intel® Trust Domain Extensions (TDX), which help shield sensitive information from unauthorized access and support a Zero Trust security approach. Additional built-in technologies—like Silicon Root of Trust—create a multi-layered defense, giving you peace of mind as your infrastructure grows.



A Balanced Strategy: Combining Tower and Rack Servers

A truly modern infrastructure is a flexible one. For many growing businesses, the optimal solution isn't choosing between tower and rack servers—it's using them together.

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Hybrid IT strategy: leverage local office tower servers for day-to-day work, with PowerEdge rack servers handling growth, backups, and high-intensity workloads.”

This hybrid approach allows you to place technology where it makes the most sense. Use quiet, compact PowerEdge tower servers in your office or remote branch locations for local file sharing and collaboration. Meanwhile, centralize your most demanding workloads, like large databases and AI applications, on powerful PowerEdge rack servers in a dedicated server closet or data center. This strategy gives you the best of both worlds: localized efficiency and centralized power.



Your Future-Ready Foundation

The journey to modernization is a commitment to progress. By choosing Dell PowerEdge rack servers with Intel® Xeon® processors, you are not just upgrading your hardware—you are building a foundation for future innovation. You are empowering your teams with the tools they need to succeed, creating better experiences for your customers, and positioning your business to thrive in a changing world.

Embrace the opportunity to transform your IT from a cost center into a catalyst for growth. Your ambition deserves an infrastructure that can make it happen.

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Choose technology that grows with you—PowerEdge with Intel® Xeon® is the trusted foundation for growing businesses worldwide.”





Build for What's Next.

Empower your business with the performance, scalability, and intelligence of Dell PowerEdge rack servers. Drive innovation, enhance customer experiences, and unlock your full potential.

Progress starts here. Learn more at Dell.com/Intel

