DELL Technologies

AMD

The Power of a Right-Sized Server

Dell PowerEdge R4715 and R5715 servers with the 5th Gen AMD EPYC™ processor deliver modern capabilities while reducing complexity and costs

Get Started

Executive summary

For growing businesses striving to get the most from their IT investments, Dell PowerEdge R4715 and R5715 servers with the 5th Gen AMD EPYC™ processor set a new standard in enterprise-grade computing that comes without the enterprise-grade price tag. Single-socket architecture delivers robust processing power to support demanding workloads with efficiency and simplicity, supporting sustainability and lowering total cost of ownership (TCO).

These features make them ideal for businesses ready to move beyond “good enough” solutions to the performance of a right-sized server.

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When “good enough” is no longer good enough

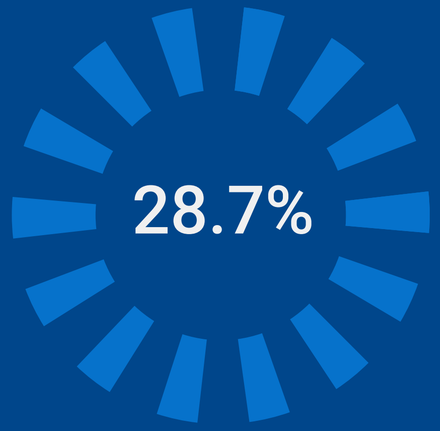
For many growing businesses, IT infrastructure often starts small and builds into a fragmented mix of desktops and aging hardware that becomes harder to manage over time. As the environment grows more fragmented, the idea of making changes feels risky. After all, it’s working fine. Until it isn't.

As your business expands, infrastructure that used to be “good enough” becomes a liability.

Slow application performance frustrates employees.

Managing multiple desktops consumes valuable time.

The prospect of hardware failures and the security vulnerabilities of older systems keeps you up at night.



As these pressures build, it becomes clear that the status quo can’t keep pace with what your business needs. And you’re not alone. IDC forecasts that the worldwide server market will see a **compound annual growth rate (CAGR) of 28.7% by 2029.**[1] This signals a broad move away from ad hoc solutions toward modern, purpose-built infrastructure for organizations of all sizes.

[1] IDC, Servers Market Insights, October 2025.

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As your business expands, the limitations of improvised infrastructure setups become clear:

Complexity

Workloads spread across multiple desktop towers create a tangle of configurations, manual updates, and unpredictable performance.

Management headaches

Without centralized tools, backups, patches, and monitoring become time-consuming, device-by-device tasks.

Increased energy costs

Older servers and desktops running server-class tasks draw more power, generate more heat, and drive up operating expenses.

Increased risk

Aging hardware and fragmented systems introduce security gaps, data bottlenecks, and a higher chance of downtime.

To overcome these challenges, you need a **modern server platform** with enterprise-level capabilities that streamlines operations and **reduces costs and risks**—without the enterprise-level price tag.

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Meet the new standard: Dell PowerEdge R4715 and R5715 with 5th Gen AMD EPYC™ processor

The new Dell PowerEdge R4715 and R5715 servers with 5th Gen AMD EPYC™ processor are designed specifically for businesses that need to maximize value without compromising on capabilities or adding complexity. These servers represent the ideal entry point into modern, rack-based computing.

Both deliver:

Core density: Support up to a 32-core AMD EPYC™ processor for dense workload consolidation

Memory: Up to 1.5TB of DDR5 memory keeps applications running smoothly

Scalability: Add networking or storage without the need to upgrade

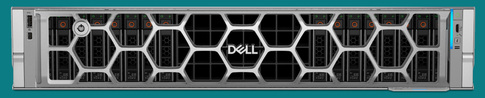
Design: Air-cooled architecture helps keep energy costs low

Speed: AMD “Zen 5” core architecture provides up to 17% better instructions per clock (IPC) for enterprise and cloud workloads[2]

Dell PowerEdge R4715: Your efficient workhorse

Perfect for businesses moving from tower-based architecture to rack-mounted efficiency

- **Density:** Stack more compute in a smaller 1U footprint
- **Connectivity:** Up to three PCIe Gen5 slots for high-speed networking or storage controllers
- **Storage:** Up to 246TB with optional NVMe® for even faster data access.



Dell PowerEdge R5715: Enhanced I/O and storage for scalability

Ideal for organizations looking for the flexibility to scale performance without adding new servers

- **Connectivity**: Up to four PCIe Gen5 slots for high-speed networking or storage controllers
- **Storage:** Support for up to 288TB storage

[2] Based on AMD internal testing as of 9/10/2024, geomean performance improvement (IPC) at fixed-frequency.

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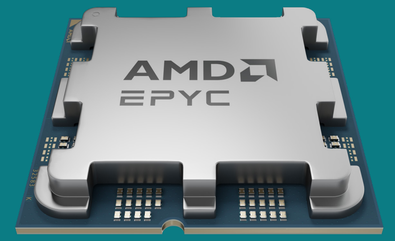
The power of one: Why single-socket matters

In the past, dual-socket (two-CPU) systems were the go-to choice for achieving top-tier server performance. While dual-socket platforms remain a powerful option, advancements in modern processor architecture have opened new possibilities.

Today, a server with a single AMD EPYC™ processor can deliver the kind of performance that previously required two CPUs. This “one-socket advantage” delivers incredible efficiency and value, making it an ideal solution for organizations looking for right-sized compute without adding costs or complexity.



Don’t pay for what you don't use

Single-socket servers give you:

Lower hardware costs: You only pay for one CPU, reducing the upfront price of the server.

Licensing savings: Many software vendors charge by the socket, so a single-socket server can dramatically reduce your licensing fees.

Reduce complexity: Fewer components mean fewer points of failure and simpler thermal management.

Dell PowerEdge R4715 and R5715 servers allow you to achieve right-sized mainstream performance for everything from file sharing to databases on a single-socket architecture. It’s just one way these servers can help you lower your TCO.

Reduce licensing costs by **62.5%** by upgrading from a 5-year-old server[3]

[3] Based on Dell analysis of SPEC FP Rate scores of the 24 core AMD EPYC CPU in the PowerEdge R5715 (464) with the SPEC FP rate of an HPE ProliantDL360 Gen10 plus with 2x 32 core Intel Xeon Platinum 8358 CPUs (438). Both have similar SPEC-FP scores, but the newer Dell server is able to achieve the same with 62.5% fewer cores. With core licensed software like Windows Server 2025, this would equate to a 62.5% reduction in licensing costs. Data accurate as of 1/29/2026. Actual performance may vary.

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“Right sized” means your new server is optimized for the workloads that drive your growing business.

Virtualization and VDI

Consolidate for savings.

PowerEdge R4715 and R5715 offer up to 51% increased performance per core verses previous generation server.[4] With up to 32 cores and 1.5TB memory, you can host an array of virtual machines (VMs) or virtual desktop infrastructure (VDI) sessions.

Data analytics and databases

Get answers faster.

High-speed DDR5 memory accelerates data processing, whether you’re running a local SQL database or analyzing customer trends, so you can get results in real-time.

Edge computing

Equip retail outlets, branch offices and manufacturing floors.

A compact 1U design makes these servers perfect for places where space is tight but processing power is essential.

[4] Based on SPEC CPU FP Rate results of a HPE ProLiant DL325 Gen11 with AMD EPYC 9334 CPU which scored 229 versus a Dell PowerEdge R4715 with AMD EPYC 9335 CPU which scored 566 in the same test. Actual performance may vary.

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Over **140% better performance** per watt than previous PowerEdge EPYC™ servers[5]

Efficiency supports sustainability

Modernizing doesn’t just improve speed. It improves efficiency. Old hardware is often power-hungry and inefficient. Dell PowerEdge R4715 and R5715 servers are designed to minimize power draw and optimize thermal management. By upgrading, you’re investing in lower TCO along with sustainability.

Better performance per watt:
With the 5th Gen AMD EPYC™ processor, you get more work for every watt of electricity consumed.

Advanced cooling mechanism:
An innovative air-cooled design prevents overheating, eliminating the need for excessive air conditioning or expensive liquid-cooling systems.

Optimized power delivery:
Efficient power usage avoids unnecessary spikes or waste.

Lower OpEx:
Reduced energy consumption translates directly to lower utility bills.

[5] Based on Dell analysis of SPEC CPU data indicating that the PowerEdge R4715 shows a score of 566 in SPEC CPU 2007 FP Rate vs a score of 229 which was achieved by an HPE ProLiant DL325 Gen11 with AMD EPYC 9334 CPU. Both these CPUs are 210W. This translates to a 147.16% improvement in performance-per-watt with the Dell PowerEdge R4715 with AMD EPYC 9335. Actual performance may vary.

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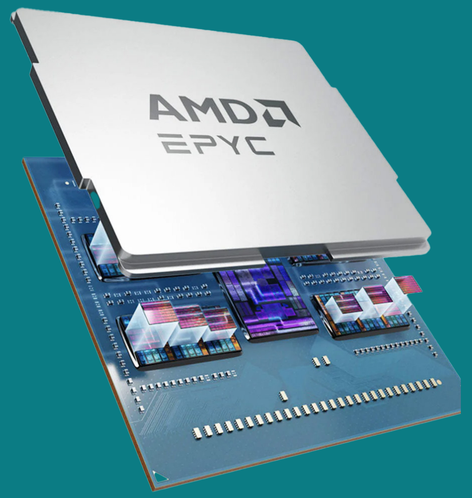
Investing in a Dell PowerEdge R4715 or PowerEdge R5715 server connects you to a broader ecosystem powered by the latest AMD EPYC™ processor. You’re not just buying a box; you’re adopting a scalable platform built for performance and reliability.

Dell servers featuring the AMD EPYC™ processor are part of a family that includes the Dell PowerEdge R6715 and PowerEdge R7715 servers. The family path gives you a solution that’s ideal for your current needs and peace of mind as your workloads grow.



AMD EPYC™ performance:

Designed for demanding workloads, the AMD EPYC™ processor delivers exceptional performance, energy efficiency and scalability.

Shared DNA:

All these servers share common management tools (like iDRAC) and security protocols.

With the AMD EPYC™ processor at the core, you’re investing in servers ready for today and tomorrow.

Future-proofing:

If your needs evolve to require AI training or high performance computing (HPC), you can integrate a larger Dell PowerEdge R6715 or PowerEdge R7715 server (also with the AMD EPYC™ processor) into your rack without learning a new system.

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Your business deserves a modern infrastructure that propels it forward, not ad hoc hardware that holds it back.

Dell PowerEdge R4715 and PowerEdge R5715 servers with the latest AMD EPYC™ processor offer the perfect balance of right-sized performance, cost efficiency and scalability for growing businesses. By leveraging the one-socket advantage, you get enterprise-grade power while keeping your budget in check.

Ready to modernize? Follow these simple steps:

Assess

Review your current server age and energy costs.

Plan

Identify which workloads need an upgraded platform.

Act

Contact your technology partner to configure a Dell PowerEdge R4715 or PowerEdge R5715 server for your specific needs.

Innovate with confidence. Secure your future. Upgrade today.

Dell.com/Servers/AMD