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Executive Brief

Modernize More, Power Less

How to improve data center efficiency, build a foundation for modern workloads, and accelerate AI readiness.



AI, analytics, and hybrid cloud workloads are driving up demand for data center compute, and with it, energy costs and environmental impact. Yet many organizations still run older servers that consume more power, floor space, and budget than modern systems.

For organizations looking to modernize, the fastest path to new capacity is not a bigger data center but a more efficient one. HPE ProLiant Compute Gen12 servers with Intel Xeon 6 processors provide a modern foundation for that shift.

> “Our customers are tackling workloads that are overwhelmingly data-intensive and growing ever-more demanding.”
>
> -Krista Satterthwaite, SVP and GM, Compute, HPE

Legacy Servers Limit Data Center Efficiency and Growth

Legacy servers occupy space that new workloads need, while drawing more power and generating more heat. In response, IT leaders are consolidating workloads onto fewer, denser servers and rethinking where workloads run. Yet few feel confident they are managing efficiency well.

41%

of CIOs are extremely confident energy efficiency is prioritized in AI deployment

39%

of CIOs are extremely confident their organization actively manages AI's environmental impact

Logicalis 2026 CIO Report

As IT leaders plan their next refresh, they are evaluating performance per watt rather than raw performance alone, because power is now the constraint. They also need hardware that is ready for AI, security that extends from firmware to cloud, and management tools that ease the burden on stretched IT teams.

Building a Modern Compute Foundation

with HPE and Intel

For decades, HPE ProLiant has been a trusted enterprise server platform that supports business-critical applications, virtualization, hybrid cloud, and data-intensive workloads from the data center to the edge. The latest generation, HPE ProLiant Compute Gen12, focuses on security-first design, optimized performance and efficiency, and AI-driven automation.

Intel Xeon 6 processors ensure the Gen12 can keep pace with demanding, compute-intensive applications and scale-out workloads. Inbuilt Intel technologies such as Software Guard Extensions (SGX) and Trust Domain Extensions (TDX) also add security through hardware-level isolation for applications and virtual machines. With this combination of performance, efficiency, and protection, the Intel-based Gen12 lineup can support a wide range of data center needs.

HPE ProLiant Compute Gen12

Accelerator optimized



4U, 2P
HPE ProLiant Compute DL380a Gen12
Intel Xeon 6 processor

TCO/Power optimized



1U, 1P
HPE ProLiant Compute DL320 Gen12
Intel Xeon 6 processor



2U, 1P
HPE ProLiant Compute DL340 Gen12
Intel Xeon 6 processor

Density optimized



1U, 2P
HPE ProLiant Compute DL360 Gen12
Intel Xeon 6 processor



2U, 2P
HPE ProLiant Compute DL380 Gen12
Intel Xeon 6 processor

SMB/Edge optimized



2P Tower
HPE ProLiant Compute ML350 Gen12
Intel Xeon 6 processor

Modern servers include:

HPE ProLiant Compute DL320 Gen12

Workloads Cloud-native · Containerized · Scale-out

A 1U, single-socket server built to maximize rack utilization in power-constrained environments. It supports Intel Xeon 6 processors with up to 86 performance cores or 144 efficiency cores.

HPE ProLiant Compute DL360 Gen12

Workloads Virtualization · VDI · Enterprise applications

A compact 1U, two-socket server that delivers strong compute performance and memory density in minimal space. It supports up to 8 TB of DDR5 memory.

HPE ProLiant Compute DL380 Gen12

Workloads Data analytics · Hybrid cloud · Virtualization

A scalable 2U, two-socket server with flexible storage and GPU options. It supports up to 8 TB of DDR5 memory and high-speed data transfer.

HPE ProLiant Compute DL380a Gen12

Workloads Generative AI fine-tuning · AI inference

A GPU-accelerated 4U server designed for AI. It supports up to 10 double-wide GPUs, up to 8 TB of DDR5 memory, and air or direct liquid cooling.

HPE ProLiant Compute DL580 Gen12

Workloads In-memory databases · Big data · Analytics

A four-socket 4U server built for data-intensive workloads. It supports up to 16 TB of memory and 32 EDSFF drives.

HPE ProLiant Compute ML350 Gen12

Workloads Edge sites · Remote offices · ERP and CRM

A two-socket tower server for locations without a dedicated data center. It supports up to 8 TB of DDR5 memory and up to four double-wide GPUs.

Across all of these models, security is built in from the silicon up, with the HPE iLO 7 secure enclave and quantum-resistant firmware protection safeguarding every phase of the server lifecycle. Efficiency is built in as well: compared with HPE ProLiant Gen10 servers, Gen12 enables up to 7:1 server consolidation and up to 65% power savings, freeing space, energy, and budget for new workloads. HPE Compute Ops Management uses AI-driven insights to forecast power use and set thresholds that help control energy costs, while direct liquid cooling options and GreenLake consumption add flexibility.

Modernize More and Power Less

with Logicalis, HPE, and Intel

Logicalis helps clients modernize their infrastructure to meet the growing demands of AI, data, and hybrid workloads. Through professional, managed, and advisory services, our certified experts help teams plan, deploy, and optimize infrastructure to deliver more performance with less power.

To learn more about data center modernization or the Gen12 portfolio, contact us today to schedule a complimentary strategy session.

Schedule a Strategy Session

Why Logicalis?

- 7,000+ professionals serving 10,000+ clients across 30 territories
- HPE Platinum Partner for 30+ years
- Named to the CRN MSP 500 for 2025

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