Building on HPE ProLiant as the intelligent compute foundation for hybrid cloud, HPE ProLiant DL325 Gen10 Plus offers the 2nd Generation AMD EPYC 7000 Series processor that delivers up to 2X the performance of the prior generation.¹

With up to 64 cores, 16 DIMMs, and 4 TB of memory capacity, as well as support for up to 24 NVMe drives, IT organizations can experience performance similar to the majority of 2-socket servers for virtualization and data-centric workloads without paying for unused options.

Why consider HPE ProLiant DL325 Gen10 Plus?

HPE ProLiant is the intelligent compute foundation for hybrid cloud, delivering unmatched workload optimization, security, and automation, all delivered as-a-Service.

Optimized for hybrid cloud

The foundational intelligence of HPE ProLiant transforms IT with insights that optimize workload performance, placement, and efficiency, delivering better outcomes faster. A standard feature of HPE ProLiant, workload matching encapsulates decades of HPE performance engineering expertise into preconfigured, user-selectable profiles that automatically optimize hundreds of BIOS setting combinations to precisely match server resources to workload requirements. Workload matching eliminates the trial-and-error—and risk—of server tuning, delivering the performance and efficiency of a server ideally suited to its workload tasks.

Built on the experience of over a thousand hybrid cloud engagements, HPE Right Mix Advisor delivers data-driven guidance to quickly and confidently move workloads to the right mix of hybrid cloud platforms, ensuring optimized performance to meet business-specific needs while speeding migrations from months to weeks and reducing costs as much as 40%.

TARGET USE CASES

Virtualization

The HPE ProLiant DL325 Gen10 Plus server is perfect for organizations with a TCO first mindset, delivering 2P performance by cutting the “per socket” tax of virtualization software in half.

In the SPEC virt_sc 2013 Benchmark, The HPE ProLiant DL325 Gen10 Plus scored 87% better in performance and 36% better in price performance than the previous 1P and 2P virtualization world record holders respectively.²

Software-defined storage

The HPE ProLiant DL325 Gen10 Plus delivers maximum capacity and versatility with high frequency processors, increased memory capacity, and greater I/O bandwidth, as well as the ability to scale storage quickly and cost-effectively as data volumes expand.

Big Data

The HPE ProLiant DL325 Gen10 Plus is the modular compute building block for Big Data environments that require high-performance cores attached to a large memory footprint to significantly accelerate processing output for a number of compute intensive workloads.

RESOURCES

HPE ProLiant DL325 Gen10 Plus server
HPE ProLiant DL325 Gen10 Plus server digital data sheet
HPE Server Performance Benchmarks

¹ Comparing the HPE ProLiant DL325 Gen10 Plus with AMD EPYC 7702 processor versus the AMD EPYC 7601 processor, and based on SPECcert2017_pdt_base score results. See spec.org as of August 7, 2019.

² HPE ProLiant DL325 Gen10 Plus server as compared to the Lenovo ThinkSystem SR650 with one and two Intel® Xeon® Platinum 8180 processors. November 2019. See spec.org as of November 18, 2019.

³ Cloud Economics—Are you Getting the Bigger Picture?™ CTP Doppler Survey.
Intelligent Automation
The intelligence built into HPE ProLiant simplifies and automates management tasks, establishing a solid foundation for an open, hybrid cloud platform enabled by composability.

- Embedded in HPE ProLiant, HPE iLO 5 is the HPE-exclusive core intelligence that monitors server status, providing the means for reporting, ongoing management, service alerting and local or remote management to quickly identify and resolve issues.
- HPE iLO uses a fully Redfish-conformant HPE iLO RESTful application programming interface (API) to provide simple and secure management for today’s cloud- and web-based infrastructures across a wide variety of operations and orchestration tools from HPE and others.
- A foundational element in the software-defined infrastructure of hybrid cloud environments, HPE OneView offers an automated, template-driven approach for deploying, provisioning, updating, and integrating compute, storage, and networking infrastructure.
- Building on the operational data of tens of thousands of servers, HPE InfoSight provides continual AI-driven insight to server operations, predicting and preventing problems before IT operations are impacted.

360-degree security
Already the world’s most secure industry-standard server, HPE ProLiant provides an enhanced holistic, 360-degree view to security that begins in the manufacturing supply chain and concludes with a safeguarded, end-of-life decommissioning.
- The silicon root of trust is connected to the AMD Secure Processor in the AMD EPYC SoC allowing the AMD Secure Processor to further validate the UEFI BIOS firmware before the server is allowed to boot.
- The AMD Secure Processor also manages Secure Encrypted Virtualization, which encrypts virtual machines (VMs) isolating them from one another and even the hypervisor itself, and Secure Memory Encryption, which protects against cold boot, DRAM interface snooping and similar attacks.
- Automated recovery from a security event, including restoration of validated firmware, and facilitating recovery of operating system, application, and data connections, are enabled by server system restore, providing the fastest path to bring a server back online and into normal operations.
- One Button Secure Erase offers a simple, safeguarded removal of passwords, configuration settings, and data from a server being repurposed or retired.
- HPE Asset Recovery prevents inadvertent access to previously secured information.

WHAT’S NEW?
- The 2nd Generation AMD EPYC processors offer up to 64 cores operating at 3.4 GHz.
- 7 nm at 225W process enables enterprise data centers to attain better power efficiency.
- 9% faster memory speed improvement for faster application performance with HPE DDR4 SmartMemory at speeds up to 3200 MT/s.
- 2X greater I/O bandwidth with PCIe 4 compared to PCIe 3.
- 2.4X greater storage capacity over previous generation.
- Improved NUMA optimization eliminates memory performance reductions when multiple processors simultaneously attempt to access memory.

A COMPLETE SOLUTION FOR ENTERPRISE WORKLOADS AND VIRTUALIZATION
The HPE ProLiant DL325 Gen10 Plus with the 2nd Generation AMD EPYC single-socket architecture enables businesses to acquire enterprise-class processor, memory, and I/O performance and security without having to purchase a dual processor.

For space-constrained, virtualized environments where efficiency is important, the HPE ProLiant DL325 Gen10 Plus hyperconverged infrastructure meets the challenge in a dense 1U power-efficient, rack-based solution offering greater VM density than competitive solutions. This makes it ideal when deploying multitenant cloud-based solutions where increased memory and storage capacity with lower latency are most critical.

HPE ProLiant DL325 Gen10 Plus with up to 64 cores, 4 TB of memory, PCIe 4, and 3200 MT/s memory speed make this the right choice for small-scale virtualization.

Learn more at hpe.com/partners/amd

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