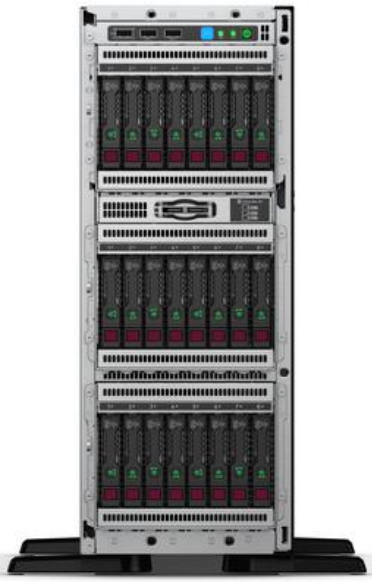
Hewlett Packard Enterprise

HPE ProLiant ML350 Gen10 Server

ProLiant ML Servers



What's new

- Now supports Intel's 2nd generation Xeon Scalable processor with 16% increase in performance [5] and HPE DDR4 SmartMemory 2933 MT/s, providing a boost in processing performance and memory speed.
- Supports mixed LFF and SFF drive cages within the same server for tiered storage, offering the flexibility to mix drive types for cost and capacity size considerations.
- HPE InfoSight provides a cloud-based analytics tool that predicts and prevents problems before your business is impacted.

Overview

Do you need a robust server for your SMB and remote offices? HPE ProLiant ML350 Gen10 server delivers a secure dual-socket tower server with performance, expandability, and proven reliability making it the choice for expanding SMBs, remote offices of larger businesses, and enterprise data centers. HPE ProLiant ML350 Gen10 leverages the Intel® Xeon® Scalable processors with up to 71% [1] performance gain and 27% increase in cores [2], along with the 2933 MT/s [3] or 2666 MT/s HPE DDR4 SmartMemory supports up to 3.0TB and 11% [4] faster than 2400 MT/s. The shorter re-designed rackable chassis with multiple upgrade options provides flexibility that can expand as your business needs grow. It supports 12Gb/s SAS, NVMe SSD, embedded 4x1GbE NIC with a broad range of graphics and compute options.

- Enhanced iLO 5 security features such as Server Configuration Lock, iLO Security Dashboard and Workload Performance Advisor.
- High performance graphic processing unit (GPU) and high-speed GPU bridge support for graphic-intensive applications such as Virtual Desktop Infrastructure (VDI) and machine learning.

Supported by the HPE Pointnext industry-leading service organization, HPE ProLiant ML350 Gen10 server helps you transform to a digital business with more agility and all within your limited IT budget.

Features

Perform with Unmatched Versatility

HPE ProLiant ML350 Gen10 server supports up to two Intel Xeon Scalable processors, starting from Bronze through Platinum, 4 cores expanding up to 28 core processors offering unparalleled performance.

Up to 24 DIMM slots to support the 2933 MT/s or 2600 MT/s HPE DDR4 SmartMemory [3], reducing data loss and downtime with the HPE Gen10 technology licensed Fast Fault Tolerance feature while increasing workload performance and power efficiency.

It supports a wide range of solutions from Azure to Docker to ClearOS along with the traditional operating systems.

GPU expansion supports up to four units to accelerate performance in VDI applications and machine learning for financial services, surveillance and security, educational and scientific research, as well as retail and medical imaging.

With the new addition of NVIDIA GV100 and NVLINK BRIDGE option support, it transforms into a even more powerful AI Tower server with high-speed GPU connection, ray-tracing and AI.

Expand When Your Business Needs Grow

ProLiant ML350 Gen10 delivers expandability and flexibility with mixed LFF and SFF drive cages within the same server. Supporting 8 to 24 SFF or 16 SFF when mixed with 8 NVMe PCIe solid state drives, 4 to 12 LFF hot plug or non-hot plug drive protecting your IT investment in hybrid environment.

Large expansion capacity with eight PCIe slots, six USB ports, 5U rack conversion, and power supply options.

Embedded 4x1GbE and the choice of PCIe standup 1GbE, 10GbE or 25GbE adapters and Infiniband cards provide you the flexibility of networking bandwidth and fabric so you can scale and adapt to different needs as your business grows.

Security Innovations

HPE Integrated Lights Out 5 (iLO 5) enables the world's most secure industry standard servers with HPE Silicon Root of Trust technology to protect your servers from attacks, detect potential intrusions and recover your essential server firmware securely.

New iLO 5 security features include Server Configuration Lock to ensure secure transit; iLO Security Dashboard helps detect and address possible security vulnerabilities in server setup. Workload Performance Advisor provides server tuning recommendations for better server performance.

With Runtime Firmware Verification the server firmware is checked every 24 hours verifying validity and credibility of essential system firmware. Secure Recovery allows server firmware to rollback to the to last known good state or factory settings after detection of compromised code.

Additional security options are available with Trusted Platform Module (TPM) to prevent unauthorized access to the server and reliably store artifacts used to authenticate the server.

Industry Leading Services and Ease of Deployment

The HPE ProLiant ML350 Gen10 server comes with a complete set of HPE Pointnext services, delivering confidence, reducing risk, and helping customers realize agility and stability.

Services from HPE Pointnext simplify all stages of the IT journey. Advisory and Transformation Services professionals understand customer challenges and design an effective solution. Professional Services enable rapid deployment of solutions and Operational Services provide ongoing support.

Services provided under Operational Services include: HPE Flexible Capacity, HPE Datacenter Care, HPE Infrastructure Automation, HPE Campus Care, HPE Proactive Services and multi-vendor coverage.

HPE IT investment solutions help you transform to a digital business with IT economics that align to your business goals.

Technical specifications — HPE ProLiant ML350 Gen10 Server

Processor Name	Intel® Xeon® Scalable processors, 1st or 2nd generation
Processor family	1st generation: Intel® Xeon® Scalable 8100 series Intel® Xeon® Scalable 6100 series Intel® Xeon® Scalable 5100 series Intel® Xeon® Scalable 4100 series Intel® Xeon® Scalable 3100 series 2nd generation: Intel® Xeon® Scalable 8200 series Intel® Xeon® Scalable 6200 series Intel® Xeon® Scalable 5200 series Intel® Xeon® Scalable 4200 series Intel® Xeon® Scalable 3200 series
Processor core available	28 or 26 or 24 or 22 or 20 or 18 or 16 or 14 or 12 or 10 or 6 or 8 or 4, depending on model
Processor cache	38.50 MB L3 - 8.25 MB L3, depending on model
Processor speed	3.6 GHz, maximum depending on processor
Power supply type	HPE Flexible Slot Redundant Power Supply modules 500W / 800W / 1600W, depending on model SKU, or HPE Standard 500W Non-Hot-Plug/non-RPS Power Supply
Expansion slots	8-slots (x16, x8, x16, x8, x16, x8, x16, x8) as standard in 2P model. For detail reference QuickSpecs.
Maximum memory	3.0 TB with 128 GB DDR4 DIMM
Memory, standard	32 GB (1 x 32 GB) RDIMM or depending on model
Memory slots	24 DIMM slots
Memory type	HPE DDR4 SmartMemory
Memory protection features	Advanced ECC Memory Online Spare Mode Memory Lock Step Mode
Included hard drives	None Ship Standard
Optical drive type	Optional DVD-ROM or DVD-RW. Optional via Slim-line ODD Bay Kit. Optional external support is available too. Optional Half-Height RDX or Tape, up to 2. Optional via Media Drive Support Kit. For detail reference QuickSpecs.
System fan features	Depending on model SKU. Standard 2 fans, none-hot-plug. Optional 4 additional fans, hot-plug and N+1 redundancy Reference QuickSpecs for config. detail.
Network controller	HPE Ethernet 1Gb 4-port 369i Adapter
Storage controller	1 HPE Smart Array S100i and/or 1 HPE Smart Array P408i-a SR Gen10 and/or 1 HPE Smart Array E208i-a Gen10, depending on model. For detail reference QuickSpecs.
Minimum dimensions (H x W x D)	46.25 x 64.8 x 17.4 cm
Weight	21 kg
Infrastructure management	HPE iLO Standard with Intelligent Provisioning (embedded), HPE OneView Standard (requires download) (standard), HPE iLO Advanced, and OneView Advanced (optional)
Warranty	3/3/3 - Server Warranty includes three years of parts, three years of labor, three years of onsite support coverage. Additional information regarding worldwide limited warranty and technical support is available at: http://h20564.www2.hpe.com/hpsc/wc/public/home. Additional HPE support and service coverage for your product can be purchased locally. For information on availability of service upgrades and the cost for these service upgrades, refer to the HPE website at http://www.hpe.com/support

For additional technical information, available models and options, please reference the QuickSpecs

HPE Pointnext

HPE Pointnext leverages our breadth and depth of technical expertise and innovation to help to accelerate digital transformation. A comprehensive portfolio that includes—Advisory, Professional, and Operational Services is designed to help you evolve and grow today and into the future.

Operational Services

- **HPE Flexible Capacity** is a new consumption model to manage on-demand capacity, combining the agility and economics of public cloud with the security and performance of on-premises IT.
- **HPE Datacenter Care** offers a tailored operational support solution built on core deliverables. It includes hardware and software support, a team of experts to help personalize deliverables and share best practices, as well as optional building blocks to address specific IT and business needs.
- **HPE Proactive Care** is an integrated set of hardware and software support including an enhanced call experience with start to finish case management helping resolve incidents quickly and keeping IT reliable and stable.
- **HPE Foundation Care** helps when there is a hardware or software problem offering several response levels dependent on IT and business requirements.

Advisory Services includes design, strategy, road map, and other services to help enable the digital transformation journey, tuned to IT and business needs. Advisory Services helps customers on their journey to Hybrid IT, Big Data, and the Intelligent Edge.

Professional Services helps integrate the new solution with project management, installation and startup, relocation services, and more. We help mitigate risk to the business so there is no interruption when new technology is being integrated in the existing IT environment.

[1] Intel measurements. Up to 71% performance increase of Intel Xeon Platinum vs. previous generation E5 v4 average performance based on key industry-standard benchmark calculations comparing 2-socket Intel Xeon Platinum 8180 to E5-2699 v4 family processors. Any difference in system hardware or software design or configuration may affect actual performance. May 2017.
[2] Up to 27% performance increase of Intel Xeon Platinum vs. previous generation comparing 2-socket Intel Xeon Platinum 8180 (28 cores) to E5-2699 v4 (22 cores). Calculation 28 cores/22 cores= 1.27 = 27%. May 2017.
[3] 2933 MT/s DDR4 DIMMs are supported with the 2nd generation of Intel Scalable Processors; while 2600 MT/s DDR4 DIMMs are supported with the 1st generation of Intel Scalable Processors.
[4] The Gen10 2666 MT/s memory speed is 11% faster than that of Gen9 2400 MT/s, enabling faster server performance.
[5] Up to 16% performance increase of Intel Xeon Platinum versus previous generation comparing 2-socket Intel Xeon Platinum 8180 (28 cores) to Intel Xeon Platinum 8280 (28 cores) measured by SPECrate®2017_fp_base. SPEC and the benchmark names SPECrate are registered Trademarks of the Standard Performance Evaluation Corporation (SPEC). All rights reserved; see spec.org. April 2019.

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