

HPE ProLiant ML350 Gen10 server



What's new

- Supports the additional 2nd generation Intel® Xeon Scalable Processor offerings delivering exceptional customer value with increased performance and industry leading frequency.
- 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.
- Available regionally, SMB offers that are aggressively priced.

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.

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 3.0 TB 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 options. Supported by the HPE Pointnext industry-leading service organization, the 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 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 Tesla T4 and NVIDIA Quadro RTX8000/6000/4000 GPU 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, 25GbE or 100GbE 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.

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 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.

HPE InfoSight provides a cloud-based analytics tool that predicts and prevents problems before your business is impacted.



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 type	Intel® Xeon® Scalable processors, 1st and 2nd generations
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 number	1 or 2
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	3.9 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 (Ordering limited to non-EU/EMEA countries/regions)
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.
Product dimensions (metric)	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.hp.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.hp.com/support
Drive supported	24 SFF SAS/SATA HDD/SSD, or 16 SFF SAS/SATA HDD/SSD and 8 SFF NVMe SSD. 12 LFF SAS/SATA HDD/SSD or 12 LFF NHP SATA HDD, depending on model. Upgrade option kits are available.



[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 $28 \text{ cores} / 22 \text{ cores} = 1.27 = 27\%$. 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.



For additional technical information, available models and options, please reference the [QuickSpecs](#)

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HPE Services

No matter where you are in your transformation journey, you can count on HPE Services to deliver the expertise you need when, where and how you need it. From strategy and planning to deployment, ongoing operations and beyond, our experts can help you realize your digital ambitions.

Consulting services

Experts can help you map out your path to hybrid cloud and optimize your operations.

Managed services

HPE runs your IT operations, giving you unified control, so can focus on innovation.

Operational services

Optimize your entire IT environment and drive innovation. Manage day-to-day IT operational tasks while freeing up valuable time and resources.

- HPE Complete Care Service: a modular service designed to help optimize your entire IT environment and achieve agreed upon IT outcomes and business goals. All delivered by an assigned team of HPE experts.
- HPE Tech Care Service: the operational service experience for HPE products. The service provides access to product specific experts, an AI driven digital experience, and general technical guidance to help reduce risk and search for ways to do things better.

Lifecycle Services

Address your specific IT deployment project needs with tailored project management and deployment services.

HPE Education Services

Training and certification designed for IT and business professionals across all industries. Create learning paths to expand proficiency in a specific subject. Schedule training in a way that works best for your business with flexible continuous learning options

Defective Media Retention is optional and allows you to retain Disk or eligible SSD/Flash Drives replaced by HPE due to malfunction.

HPE GreenLake

HPE GreenLake edge-to-cloud platform is HPE's market-leading as-a-Service offering that brings the cloud experience to apps and data everywhere – data centers, multi-clouds, and edges – with one unified operating model, on premises, fully managed in a pay per use model.

If you are looking for more services, like **IT financing solutions**, please explore them [here](#).

Explore **HPE GreenLake**



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Dell PowerEdge T310

The Dell™ PowerEdge™ T310 server delivers enterprise-level performance, redundancy, and comprehensive right-sized manageability options in a 1-socket tower that is simple to own, deploy, and manage.

Dell's robust and reliable 1-socket tower server, the PowerEdge T310, offers the performance of DDR3 memory, advanced systems management options, and the availability of up to four hard drives (3.5" or 2.5") in a compact tower chassis.

Right-sized, flexible technology and business value

The Dell PowerEdge T310 was designed to meet the needs of your growing small business or remote office by offering more features and performance than a basic, entry-level server. Customizable with optional advanced systems management capabilities including remote management, a short 20.5-inch chassis, redundancy features, and cost-effective RAID options, the T310 is the ideal robust and reliable 1-socket tower server.

Dell aims to add value to your business by providing the features you need. Our goal is to deliver value through tailored solutions based on industry standards, as well as purposeful, innovative design.

Purposeful design

The PowerEdge T310, part of the 11th generation PowerEdge server portfolio, is built with system design commonality and reliability. All 11th Generation servers are built with user ease in mind. All external ports, power supplies, LEDs, and LCD screens are kept in the same location for familiar user experience and easy installation and deployment.

Robust, metal hard drive carriers and organized cabling are designed to improve component access and airflow across the server. The PowerEdge T310's purposeful design provides quiet acoustics and an optional interactive LCD screen positioned on the front by the bezel for ease of monitoring. With a chassis depth of 20.5 inches, the PowerEdge T310's chassis is ideal for use in a back office, retail, or small office setting where space and acoustics matter.

Energy-optimized technology

Energy Smart technologies are at the core system level on the PowerEdge T310. These energy-optimized technologies are designed to increase energy efficiency within the server while continuing to deliver the performance your business requires. Built with lower wattage power supplies than its predecessor, the PowerEdge T310 offers highly efficient cabled or redundant power supply options. Also included in

the T310 are highly efficient fans, designed to spin faster in accordance with server workload demands and help reduce unnecessary noise when possible. In addition, the logical component layout aids with airflow direction, helping to keep the server cool.

Simplified systems management

The Lifecycle Controller is the engine for advanced embedded management and is delivered as part of the optional iDRAC Express or iDRAC Enterprise in the PowerEdge T310. The Lifecycle Controller helps to deliver faster server deployment and update capabilities from a bare-metal, pre-operating system environment. With the Unified Server Configurator (USC) interface, the USC tool provides a single interface that enables efficient operating system deployment with built-in driver installations, firmware updates, hardware configuration, and diagnostics for the system. Servers selected with hot-pluggable hard drives will also get the benefit of an interactive LCD that can be accessed remotely using optional iDRAC Express or iDRAC Enterprise for system alerts and power usage as well as select boot-up options.

Also part of the Dell OpenManage™ portfolio is the Dell Management Console, which is included with every Dell server and provides IT administrators with a consolidated view of their IT infrastructure.

The Dell PowerEdge T310 was designed to meet the needs of your growing small business or remote office.

Feature	PowerEdge T310 technical specification	
Form factor	Tower	
Processors	Quad-core Intel® Xeon® processor 3400 series Dual-core Intel Celeron® G1101	Intel Pentium® G6950 Dual-core Intel Core® i3 processor 500 series
Processor sockets	1	
Front Side Bus (FSB) or HyperTransport	Intel DMI (Direct Media Interface)	
Cache	8MB	
Chipset	Intel 3400	
Memory ¹	Up to 32GB (6 DIMM slots): 1GB/2GB/4GB/8GB DDR3 up to 1333MT/s	
I/O slots	5 PCIe G2 slots: Two x8 slots One x4 slot Two x1 slots	
RAID controller	Internal: PERC H200 (6Gb/s) PERC H700 (6Gb/s) with 512MB battery-backed cache; 512MB, 1GB Non-Volatile battery-backed cache SAS 6/iR PERC 6/i with 256MB battery-backed cache PERC S100 (software based) PERC S300 (software based)	External: PERC H800 (6Gb/s) with 512MB of battery-backed cache; 512MB, 1GB Non-Volatile battery cache PERC 6/E with 256MB or 512MB of battery-backed cache External HBAs (non-RAID): 6Gbps SAS HBA SAS 5/E HBA LSI2032 PCIe SCSI HBA
Drive bays	Cabled hard drive options: Up to four 3.5" SAS or SATA drives Hot-plug hard drive options: Up to four 3.5" SAS or SATA, or 2.5" SAS or SSD drives	
Maximum internal storage ¹	Up to 12TB	
Hard drives	Hot-plug hard drive options: 2.5" SATA SSD, SAS (10K) 3.5" SAS (15K, 10K), nearline SAS (7.2K), SATA (7.2K) Cabled hard drive options: 3.5" SAS (15K, 10K), nearline SAS (7.2K), SATA (7.2K)	
Communications	Broadcom® NetXtreme® 5709 Dual Port Gigabit Ethernet NIC, Copper, with TOE PCIe x4 Broadcom NetXtreme 5709 Dual Port Gigabit Ethernet NIC, Copper, TOE/iSCSI PCIe x4 Intel® PRO/1000 PT Single Port Adapter, Gigabit Ethernet NIC, PCIe x 1 Intel Gigabit ET Dual Port and Quad Port Adapters, Gigabit Ethernet NIC, PCIe x4 Intel Gigabit ET Dual Port Server Adapter and Intel Gigabit ET Quad Port Server Adapter Optional add-in HBAs: QLogic® QLE 2462 FC4 Dual Port 4 Gbps Fiber Channel HBA QLogic QLE 2460 FC4 Single Port 4 Gbps Fiber Channel HBA Emulex® LPe-11002 FC4 Dual Port 4 Gbps Fiber Channel HBA, PCIe x4 Emulex LPe-1150 FC4 Single Port 4 Gbps Fiber Channel HBA, PCIe x4	
Power supply	Single-cabled power supply (375W)/optional redundant power supply (400W)	
Availability	Quad-pack LED diagnostic, interactive LCD with hot-plug hard drive chassis, hot-plug hard drive, redundant PSU	
Video	Matrox® G200eW with 8MB memory	
Remote management	iDRAC6	
Systems management	Dell™ OpenManage™ BMC, IPMI 2.0 compliant Unified Server Configurator Lifecycle Controller enabled through optional iDRAC6 Express, iDRAC6 Enterprise, and vFlash media	
Operating systems	Microsoft® Windows Server® 2012 Microsoft Windows Server 2012 Essentials Microsoft Windows® Small Business Server 2011 Microsoft Windows Small Business Server 2008 Microsoft Windows Server® 2008 SP2, x86/x64 (x64 includes Hyper-V®) Microsoft Windows Server 2008 R2 SP1, x64 (includes Hyper-V v2) Microsoft Windows HPC Server 2008 Novell® SUSE® Linux Enterprise Server Red Hat® Enterprise Linux®	Virtualization options: VMware® vSphere® ESX™ and ESXi™ Red Hat Enterprise Virtualization®
Featured database application	Microsoft SQL Server® solutions (see Dell.com/SQL)	

¹ GB means 1 billion bytes and TB equals 1 trillion bytes; actual capacity varies with preloaded material and operating environment and will be less.

Dell Services

Dell Services can help reduce IT complexity, lower costs, and eliminate inefficiencies by making IT and business solutions work harder for you. The Dell Services team takes a holistic view of your needs and designs solutions for your environment and business objectives while leveraging proven delivery methods, local talent, and in-depth domain knowledge for the lowest TCO.

Learn more at Dell.com/PowerEdge

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