

HPE ProLiant ML350 Gen10 5218R 2.1GHz 20-core 1P 32GB-R P408i-a 8SFF 2x800W RPS Server (P59550- 421)

ProLiant ML300 Servers



What's new

- Supports the additional 2nd generation Intel® Xeon Scalable Processor offerings

Overview

Do you need a robust server for your SMB and remote offices?

HPE ProLiant ML350 Gen10 server delivers a secure dual-

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.

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 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.

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 5218R 2.1GHz 20-core 1P 32GB-R P408i-a 8SFF 2x800W RPS Server

Product Number	P59550-421
Processor Name	Intel® Xeon® Scalable 5218R (20 core, 2.1 GHz, 22 MB, 125W)
Processor core available	20 core
Processor cache	27.5 MB L3
Processor speed	2.1 GHz
Power supply type	2 HPE 800W Flex Slot power supply
Expansion slots	8-slots (x16, x8, x16, x8, x16, x8, x16, x8) as standard in 2P model. For detail reference QuickSpecs.
Memory, standard	32 GB (1x 32 GB) RDIMM
Memory type	HPE DDR4 SmartMemory
Included hard drives	None ship standard, 8 SFF drives supported
Optical drive type	Optional
System fan features	6 Standard Fans
Network controller	HPE Ethernet 1Gb 4-port 369i Adapter
Storage controller	1 HPE Smart Array P408i-a SR Gen10 Controller
Product Dimensions (metric)	5.74 x 8.97 x 3.4 cm
Weight	29 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

[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](#)

HPE Pointnext Services

HPE Pointnext Services brings together technology and expertise to help you drive your business forward and prepare for whatever is next.

Operational Services from HPE Pointnext Services

HPE Pointnext Tech Care provides fast access to product-specific experts, an AI-driven digital experience, and general technical guidance to help enable constant innovation. We have reimagined IT support from the ground up to deliver faster answers and greater value. By continuously searching for better ways to do things—as opposed to just fixing things that break—HPE Pointnext Tech Care helps you focus on achieving your business goals.

HPE Pointnext Complete Care is a modular, edge-to-cloud IT environment service that provides a holistic approach to optimizing your entire IT environment, and achieving agreed upon IT outcomes and business goals through a personalized and customer-centric experience. All delivered by an assigned team of HPE Pointnext Services experts.

HPE Integration and Performance Services help you customize your experience at any stage of your product lifecycle with a menu of services based on individual needs, workloads, and technologies.

- Advise, design, and transform
- Deploy
- Integrate and migrate
- Operate and improve
- Financial Services
- GreenLake Management Services
- Retire and sanitize
- IT Training and personal development

Other related services

HPE Education Services delivers a comprehensive range of services to support your people as they expand their skills required for a digital transformation. Consult your HPE Sales Representative or Authorized Channel Partner of choice for any additional questions and support 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 is HPE's market-leading IT 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. HPE GreenLake delivers public cloud services and infrastructure for workloads on premises, fully managed in a pay per use model.

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Parts and Materials: HPE will provide HPE-supported replacement parts and materials required to maintain the covered hardware.

Parts and components that have reached their maximum supported lifetime and/or the maximum usage limitations as set forth in the manufacturer's operating manual, product quick-specs, or the technical product data sheet will not be provided, repaired, or replaced as part of these services.

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