HPE ProLiant ML350 Gen11

What's new

- Powered by 4th and 5th Gen Intel® Xeon® Scalable Processors that support up to 64 cores[1] (128 cores per server), 350W TDP. Increased memory bandwidth to 5600 MT/s[2], up to 8TB DDR5 memory capacity.
- Supports new EDSFF E3.S NVMe form factor to enable higher-density servers and storage systems, optimization of PCIe lanes from CPUs, and ultra-high SSD performance.
- Advanced data transfer rates from the PCIe Gen5 serial expansion bus, support up to 10 standard PCIe Gen5 slots and 2 OCP 3.0 slots [3].
- Includes HPE Integrated Lights-Out 6 (iLO 6) server management software that enables you to securely configure, monitor, and update your HPE ProLiant Gen11 servers seamlessly from anywhere.

Overview

Are you looking for a robust and flexible tower optimized server for your SMB and remote offices?

The HPE ProLiant ML350 Gen11 is a powerful 2P tower server with optional rackable chassis for various environments, and delivers exceptional compute performance, security, reliability, and expandability.

Powered by 4th and 5th Gen Intel® Xeon® Scalable Processors up to 64 cores[1], up to 8 TB DDR5, PCIe Gen5, enhanced I/O and GPU support, and EDSFF storage, the HPE ProLiant ML350 Gen11 server fulfills a wide range of demanding workloads.

The silicon root of trust anchors the server firmware to an HPE-exclusive ASIC, creating a fingerprint for the 4th and 5th Gen Intel Xeon Scalable processors that must be matched exactly before the server will boot.

The HPE ProLiant ML350 Gen11 server is an excellent choice for diverse workloads such as IT infrastructure, Data Management, VDI, ERP/CRM. Scale and adapt to any environment with this server and accelerate your growing business.

- Supports hot-pluggable, high-availability, RAID1 protected M.2 NVMe boot option.

- Support NVIDIA RTX 4000 Ada Graphics Accelerator, L40 48 GB Accelerator, A16 64 GB Accelerator and L4 24 GB Accelerator.

Features

Intuitive Cloud Operating Experience: Simple, Self-service, and Automated

HPE ProLiant ML350 Gen11 servers are engineered for your hybrid world. The new ProLiant Gen11 servers simplify the way you control your business's compute—from edge to cloud—with a cloud operating experience.

Transform business operations and pivot your team from reactive to proactive with global visibility and insight through a self-service console.

Automate tasks for efficiency in deployment, instant scalability, and seamless, simplified support and lifecycle management reducing tasks and shortening maintenance windows.

These experiences are engineered and built into all HPE ProLiant Gen11 servers, whether purchased as physical servers or consumed as-a-service using GreenLake Flex Solutions as your compute and storage demands grow.

Simplify and secure server management from edge to cloud with HPE Compute Ops Management. HPE Compute Ops Management is an as-a-service compute management experience that delivers greater simplicity, agility, and speed across your entire compute landscape, globally.

Trusted Security by Design: Uncompromising, Fundamental, and Protected

HPE ProLiant ML350 Gen11 server uses the silicon root of trust to anchor the firmware of an HPE ASIC, creating an immutable fingerprint for the Intel Processor that must be matched exactly before the server will boot. This verifies that malicious code is contained, and healthy servers are protected.

HPE ProLiant Gen11 servers continuously protect healthy servers at the edge by providing rapid detection of security-compromised servers, even to the point of not allowing them to boot if it identifies and contains malicious code, with IDevID certificates installed by default.

HPE ProLiant Gen11 servers provide automated recovery from a security event, including restoration of validated firmware, and facilitating recovery of the operating system, application, data connections, and providing a fast path to bring a server back online and into normal operations.

From silicon to software, from factory to cloud, and from generation to generation, HPE ProLiant Gen11 is engineered with a fundamental security approach to defend against increasingly complex threats through an uncompromising commitment to constant security advancements that are built into our DNA.

Optimized Performance for your Workloads: Accelerated, Open, and Efficient

The HPE ProLiant ML350 Gen11 server is an excellent choice for Compute and data storage demanding workloads (AI, ML, telco, DB analytics,) requiring high core count, GPU capabilities, and network and I/O bandwidth.

Harness major compute performance. The HPE ProLiant ML350 Gen11 server is powered by 4th and 5th Gen Intel® Xeon® Scalable Processors that support up to 64 cores[1] (128 cores per server) at 350W TDP.

Enjoy advanced data transfer rates and higher network speeds from the PCIe Gen5 serial expansion bus, with up to 4 x16 PCIe Gen5 and 2 x16 OCP slots to improve I/O throughput and reduce latency.

Utilize 32 DIMM channels for up to 8 TB DDR5 memory with increased memory bandwidth and performance, and lower power requirements.

Industry-leading Services and Ease of Deployment

The HPE ProLiant ML350 Gen11 server comes with a complete set of HPE Services, delivering confidence, reducing risk, and helping customers realize agility and stability.

HPE Services 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.

Benefit from real-time operational feedback on server performance plus recommendations for fine-tuning BIOS settings to customize for changing business needs.

Technical specifications	HPE ProLiant ML350 Gen11
Processor type	Intel
Processor family	5th Gen Intel® Xeon® Scalable Processors and 4th Gen Intel® Xeon® Scalable Processors
Processor number	1 or 2
Processor core available	8 to 64 cores, depending on processor.
Processor speed	3.9 GHz, maximum depending on processor.
Processor cache	22.5 MB L3 to 320 MB L3, depending on processor.
Memory type	HPE DDR5 Smart Memory
Maximum memory	8.0 TB with 256 GB DDR5 DIMM
Memory slots	32 DIMM slots
Memory protection features	Advanced ECC Memory Online Spare Mode Memory Lock Step Mode
Accelerators	Optional: Supports NVIDIA L40/A16/L4/RTX 4000 Ada Graphics Accelerator for HPE, pending configuration
System fan features	Depending on model, Standard 3 fans, none-hot-plug. Optional 5 additional fans, hot-plug and N+1 redundancy. Refer to the QuickSpecs for more detail.
Expansion slots	2 to 10 PCIe Gen5 (2 OCP 3.0). Refer to the QuickSpecs for more detail.
Form factor	4U Tower
Network controller	Choice of optional OCP plus standup. Refer to the QuickSpecs for more detail.
Drive supported	4 to 12 LFF SAS/SATA or 8 to 24 SFF SAS/SATA/x1 NVMe HDD/SSD, or 8 SFF x4 NVMe SSD, or 12 EDSFF x4 NVMe SSD, depending on model. Upgrade option kits are available.
Optical drive type	Optional DVD-ROM or DVD-RW. Optional Half-Height RDX, up to 1. Refer to the QuickSpecs for more detail.
Power supply type	2 Flexible Slot power supplies maximum, depending on model.
Infrastructure management	HPE iLO Standard with Intelligent Provisioning (embedded), HPE OneView Standard (requires download) HPE iLO Advanced, HPE OneView Advanced (require licenses), and HPE Compute Ops Management.
Security	UEFI Secure Boot and Secure Start support. Intel® Software Guard Extensions (SGX) support. Immutable Silicon Root of Trust. TPM (Trusted Platform Module) 2.0 support. Front bezel key-lock feature, Intrusion Cable (Optional), Padlock slot and Kensington Lock slot support.

Technical specifications	HPE ProLiant ML350 Gen11
Warranty	3/3/3: Server Warranty includes three years of parts, three years of labor, and three years of on-site support coverage. Additional information regarding worldwide limited warranty and technical support is available at: https://support.hpe.com/hpesc/public/docDisplay?docId=sd00004309en_us. 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 https://www.hpe.com/support.

[1] Support up to 64-core with 5th Gen Intel processor and 60-core with 4th Gen Intel processor

[2] DDR5 5600 MT/s memory is limited to support with 5th Gen Intel processors. The maximum memory speed is a function of the memory type, memory configuration, and processor model.

[3] OCP and two tertiary riser PCIe slots are shared with 3 internal MICO connectors.

SKU comparison

	HPE ProLiant ML350 Gen11 4410Y 2.0GHz 12-core 1P 32GB-R MR408i-o 8SFF 800W RPS Server (P53566-371)	HPE ProLiant ML350 Gen11 4514Y 2.0GHz 16c 1P 2x32GB-R 8SFF MR408i-o 2x480GB SSD 2x800W PS AP Server (P84664-375)
Detailed product description	HPE ProLiant ML350 Gen11 server with one Intel® Xeon® Silver 4410Y Processor, 32 GB (1x32 GB) Dual Rank Memory, one HPE MR408i-o Gen11 x8 Lanes 4GB Cache OCP SPDM Storage Controller, support for eight SFF drives, three standard fans, one HPE 800W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit, and a 3/3/3 warranty	Shop the HPE Smart Choice purchase program: Our most popular servers, fully configured and ready to ship - now! HPE ProLiant ML350 Gen11 server with one Intel® Xeon® Silver 4514Y Processor, 64 GB (2x32 GB) Dual Rank Memory, one HPE MR408i-o Gen11 x8 Lanes 4GB Cache OCP SPDM Storage Controller, support for eight SFF drives, three standard fans, two HPE 480GB SATA 6G Read Intensive SFF BC Multi Vendor SSDs, two HPE 800W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kits, one TPM (Trusted Platform Module), and a 3/3/3 warranty
Processor name	Intel® Xeon® Silver 4410Y (12 core, 2.00 GHz, 30 MB L3, 150W)	Intel® Xeon® Silver 4514Y (16 core, 2.00 GHz, 30 MB L3, 150W)
Processor number	1 processor included	
Processor core available	12 core	16 core
Processor speed	2.00 GHz	
Processor cache	30 MB L3	
Memory type	HPE 32GB 2Rx8 PC5-4800B-R Smart Kit	HPE DDR5 Smart Memory
Included memory	32 GB (1x32 GB, 4800 MT/s)	64 GB (2x32 GB, 5600 MT/s)
Accelerators	Optional: Supports NVIDIA L40/A16/L4/RTX 4000 Ada Graphics Accelerator for HPE, pending configuration	
System fan features	3x Standard Fans	
Expansion slots	Default with 4 x8 PCIe 5.0 slots. Refer to the QuickSpecs for more detail.	2 to 10 PCIe Gen5 (2 OCP 3.0). Refer to the QuickSpecs for more detail.
Form factor	4U Tower	
Network controller	Broadcom BCM5719 Ethernet 1Gb 4-port BASE-T OCP3 Adapter for HPE	
Storage controller	HPE MR408i-o Gen11 x8 Lanes 4GB Cache OCP SPDM Storage Controller	
Included drives	None ship standard, 8 SFF supported	2x HPE 480GB SATA 6G Read Intensive SFF BC Multi Vendor SSD
Optical drive type	Optional. None ship standard.	Optional DVD-ROM or DVD-RW. Optional Half-Height RDX, up to 1. Refer to the QuickSpecs for more detail.
Power supply type	1x HPE 800W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit	2x HPE 800W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit

	HPE ProLiant ML350 Gen11 4410Y 2.0GHz 12-core 1P 32GB-R MR408i-o 8SFF 800W RPS Server (P53566-371)	HPE ProLiant ML350 Gen11 4514Y 2.0GHz 16c 1P 2x32GB-R 8SFF MR408i-o 2x480GB SSD 2x800W PS AP Server (P84664-375)
Infrastructure management	HPE iLO Standard with Intelligent Provisioning (embedded), HPE OneView Standard (requires download); HPE iLO Advanced, HPE OneView Advanced (require licenses), and HPE Compute Ops Management.	
Security	UEFI Secure Boot and Secure Start support. Intel® Software Guard Extensions (SGX) support. Immutable Silicon Root of Trust. TPM (Trusted Platform Module) 2.0 support. Front bezel key-lock feature, Intrusion Cable (Optional), Padlock slot and Kensington Lock slot support.	
Warranty	3/3/3: Server Warranty includes three years of parts, three years of labor, and three years of on-site support coverage. Additional information regarding worldwide limited warranty and technical support is available at: https://support.hpe.com/hpesc/public/docDisplay?docId=sd00004309en_us. 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 https://www.hpe.com/support.	

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.

Advisory & Professional 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.

Support 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.

— **HPE Multivendor Services:** Single point of accountability for managing on-site hardware and software support for multivendor products. HPE experts help manage your IT across technologies and platforms for HPE and non-HPE technologies, acting as the single point of contact for your IT operational needs.

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.

GreenLake

GreenLake is the cloud to run and manage your entire hybrid landscape—private, public, and edge. It helps you to:

— Streamline IT Operations across compute, storage, and networking without the chaos

— Unify and secure data, as you move faster

— Accelerate AI, from pilot to production

The result: greater operational efficiency, lower TCO, and faster AI delivery—all from one unified, intelligent platform built for today's hybrid enterprise.

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

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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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