Data sheet

HPE ProLiant Compute ML350 Gen12

What's new

- Powered by Intel® Xeon® 6700 and 6500 series with P-cores; up to 86 P-cores per socket (172 P-cores per server), 350W (TDP); increased memory bandwidth to 6400 MT/s[2], up to 8 TB DDR5 memory capacity
- Supports ultra-high SSD performance with NVMe x4 and EDSFF drive cages, and allowing mixed dual-mode LFF and tri-mode SFF drive cages as hybrid storage optimization solution
- Provides up to 24 NVMe drives with PCIe Gen5 x2 bandwidth to have maximum storage capacity with balanced performance solution
- Includes HPE Integrated Lights-Out 7 (iLO 7) server management software

Overview

Are you looking for our most flexible and powerful tower server for your SMB and remote offices?

The HPE ProLiant Compute ML350 Gen12 is a robust 2P tower server with optional rackable chassis for various environments, and delivers exceptional compute performance, security, reliability, and expandability.

Powered by latest Intel® Xeon® 6700/6500 P-series processors (up to 86 P-cores per socket), up to 8 TB DDR5 6400 memory, the HPE ProLiant Compute ML350 Gen12 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 Intel® Xeon® 6700/6500 P-series processors that must be matched exactly before the server will boot.

The HPE ProLiant Compute ML350 Gen12 server is an excellent choice for diverse workloads such as IT infrastructure, data management, VDI, and

that enables you to securely configure, monitor, and update your HPE ProLiant Compute Gen12 servers seamlessly from anywhere

- Supports new NS204i-u V2 as hot-pluggable, high-availability, RAID1-protected M.2 NVMe boot option
- Supports NVIDIA® L4 24GB Accelerator.

ERP/CRM. Scale and adapt to any environment with this server and accelerate your growing business.

Features

Next-Level Security, Chip to Cloud

From silicon to software, from factory to cloud, and from generation to generation, HPE ProLiant Compute Gen12 is engineered with a fundamental security approach to defend against increasingly complex threats through an uncompromising commitment to constant security advancements.

Silicon root of trust from HPE, establishes a zero-trust security framework at the silicon level to ensure firmware integrity. Continuous protection detects compromised servers and prevents them from booting if malicious code is found. Edge servers are safeguarded with default IDevID certificates.

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

Intel® Xeon® 6 processors add hardware- and software-assisted security features such as Intel® Software Guard Extensions (SGX) for application isolation and Trusted Domain Extensions (TDX) for VM Isolation, which help protect the server hardware foundation and safeguard data in memory.

HPE iLO 7 supports quantum-resistant (PQC) algorithms and signs HPE ProLiant Compute Gen12 firmware with algorithms approved by CNSA 2.0, which enhances resilience against potential future attacks by quantum computers.

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

The HPE ProLiant Compute ML350 Gen12 server is an excellent choice for compute and data storage demanding workloads (AI, machine learning [ML], telco, DB analytics,) requiring high core count, GPU capabilities, and network and I/O bandwidth.

Harness major compute performance. The HPE ProLiant Compute ML350 Gen12 server is powered by Intel® Xeon® 6700P/6500P-series processors that support up to 86 P-cores (172 P-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 4x 16 PCIe Gen5 and 2x 16 OCP slots to improve I/O throughput and reduce latency.

Utilize 32 DIMM slots for up to 8 TB DDR5 memory with increased memory bandwidth and performance.

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

HPE ProLiant Compute ML350 Gen12 servers are engineered for your hybrid world. The new HPE ProLiant Compute Gen12 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 Compute Gen12 servers, whether purchased as physical servers or consumed as-a-service using GreenLake as your compute and storage demands grow.

Industry-leading Services and Ease of Deployment

The HPE ProLiant Compute ML350 Gen12 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 your 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 into a digital business with IT economics that align with 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 Compute ML350 Gen12
Processor type	Intel
Processor family	Intel® Xeon® 6700 and 6500 series with P-cores
Processor number	1 or 2
Processor core available	8 to 86 P-cores, depending on processor
Processor speed	3.5 GHz, maximum depending on processor.
Processor cache	Up to 336 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
System fan features	Default with 3 standard fans, non-hot-pluggable. Optional additional fan kits with 8 fans in total to provide hot-plug and N+1 redundancy. Refer to the QuickSpecs for more detail.
Expansion slots	Up to 10[1] PCIe Gen5 and 2 OCP slots. Refer to the QuickSpecs for more detail.
Form factor	4U Tower
Network controller	Choice of networking controllers with OCP type and standup form factor. Refer to the QuickSpecs for more detail.
Storage controller	Choice of storage controllers with OCP type (OROC) and standup form factor. Refer to the QuickSpecs for more detail.
Drive supported	Up to 12 LFF SAS/SATA drives or 24 SFF SAS/SATA/NVMe drives or 12 EDSFF NVMe SSD drives, depending on model.
Optical drive type	Optional DVD-ROM or DVD-RW. Refer to the QuickSpecs for more detail.
Power supply type	1 or 2 Flexible Slot Power Supply
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. Refer to the iLO 7 User Guide

Technical specifications	HPE ProLiant Compute ML350 Gen12
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. For full security features refer to the QuickSpecs.
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, to supplement the product warranty, is available. For more information, visit: https://www.hpe.com/support.

[1] Tertiary riser kit to support Slot 9/10 with PCIe Gen5 will be available in Q2, 2025.

[2] The maximum memory speed is a function of the memory type, memory configuration, and processor model.

SKU comparison

	HPE ProLiant Compute ML350 Gen12 6505P 12c 1P 1x32GB-R 4LFF MR408i-o 2x4TB HDD 2x1000W PS EU Server (P89974-425)	HPE ProLiant Compute ML350 Gen12 6505P 12c 1x64GB-R 8SFF MR408i-o 2x960GB SSD 2x1000W PS EU Server (P87787-425)	HPE ProLiant Compute ML350 Gen12 6505P 2.2GHz 12c 1P 2x32GB-R 8SFF MR408i-o 2x1000W PS EU Server (P94962-425)	HPE ProLiant Compute ML350 Gen12 6515P 16c 1x64GB-R 8SFF MR408i-o 2x480GB SSD 2x1000W PS EU Server (P87795-425)	HPE ProLiant Compute ML350 Gen12 6515P 2.3GHz 16c 1P 2x32GB-R 8SFF MR408i-o 2x1000W PS EU Server (P95988-425)
Detailed product description	Shop the HPE Smart Choice purchase program: Our most popular servers, fully configured and ready to ship - now! HPE ProLiant Compute ML350 Gen12 server with one Intel® Xeon® 6505P Processor, 32 GB (1x32 GB) Dual Rank Memory, one HPE MR408i-o Gen11 x8 Lanes 4GB Cache OCP SPDM Storage Controller, support for four LFF drives, three standard fans, two HPE 4TB SATA 6G Business Critical 7.2K LFF LP 1-year Warranty Multi Vendor HDDs, two HPE 1000W Flex Slot Titanium Hot Plug Power Supply Kits, one TPM (Trusted Platform Module), one HPE ProLiant Compute ML Gen11/Gen12 Intrusion Cable 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 Compute ML350 Gen12 server with one Intel® Xeon® 6505P Processor, 64 GB (1x64 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 960GB SATA 6G Mixed Use SFF BC Multi Vendor SSDs, two HPE 1000W Flex Slot Titanium Hot Plug Power Supply Kits, one TPM (Trusted Platform Module), one HPE ProLiant Compute ML Gen11/Gen12 Intrusion Cable 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 Compute ML350 Gen12 server with one Intel® Xeon® 6505P 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 1000W Flex Slot Titanium Hot Plug Power Supply Kits, one TPM (Trusted Platform Module), one HPE ProLiant Compute ML Gen11/Gen12 Intrusion Cable 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 Compute ML350 Gen12 server with one Intel® Xeon® 6515P Processor, 64 GB (1x64 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 1000W Flex Slot Titanium Hot Plug Power Supply Kits, one TPM (Trusted Platform Module), one HPE ProLiant Compute ML Gen11/Gen12 Intrusion Cable 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 Compute ML350 Gen12 server with one Intel® Xeon® 6515P Processor, 64 GB (2x 32 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 1000W Flex Slot Titanium Hot Plug Power Supply Kits, one TPM (Trusted Platform Module), one HPE ProLiant Compute ML Gen11/Gen12 Intrusion Cable Kit, and a 3/3/3 warranty
Processor name	Intel® Xeon® 6505P (12 core, 2.20 GHz, 48 MB L3, 150W)	Intel® Xeon® 6505P (12 core, 2.20 GHz, 48 MB L3, 150W)	Intel® Xeon® 6505P (12 core, 2.20 GHz, 48 MB L3, 150W)	Intel® Xeon® 6515P (16 core, 2.30 GHz, 72 MB L3, 150W)	Intel® Xeon® 6515P (16 core, 2.30 GHz, 72 MB L3, 150W)
Processor number	1 processor included				
Processor core available	12 core	12 core	12 core	16 core	16 core

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Processor speed	2.20 GHz	2.20 GHz	2.20 GHz	2.30 GHz	2.30 GHz
Processor cache	48 MB L3	48 MB L3	48 MB L3	72 MB L3	72 MB L3
Memory type	HPE DDR5 Smart Memory				
Included memory	32 GB (1x32 GB, 6400 MT/s)	64 GB (1x64 GB, 6400 MT/s)	64 GB (2x32 GB, 6400 MT/s)	64 GB (1x64 GB, 6400 MT/s)	64 GB (2x 32 GB, 6400 MT/s)
System fan features	3x Standard Fans				
Expansion slots	Up to 10[1] PCIe Gen5 and 2 OCP slots. 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	2x HPE 4TB SATA 6G Business Critical 7.2K LFF LP 1-year Warranty Multi Vendor HDD	2x HPE 960GB SATA 6G Mixed Use SFF BC Multi Vendor SSD	None ship standard, 8 SFF supported	2x HPE 480GB SATA 6G Read Intensive SFF BC Multi Vendor SSD	None ship standard, 8 SFF supported
Optical drive type	Optional DVD-ROM or DVD-RW. Refer to the QuickSpecs for more detail.				
Power supply type	2x HPE 1000W Flex Slot Titanium Hot Plug Power Supply Kit				

	HPE ProLiant Compute ML350 Gen12 6505P 12c 1P 1x32GB-R 4LFF MR408i-o 2x4TB HDD 2x1000W PS EU Server (P89974-425)	HPE ProLiant Compute ML350 Gen12 6505P 12c 1x64GB-R 8SFF MR408i-o 2x960GB SSD 2x1000W PS EU Server (P87787-425)	HPE ProLiant Compute ML350 Gen12 6505P 2.2GHz 12c 1P 2x32GB-R 8SFF MR408i-o 2x1000W PS EU Server (P94962-425)	HPE ProLiant Compute ML350 Gen12 6515P 16c 1x64GB-R 8SFF MR408i-o 2x480GB SSD 2x1000W PS EU Server (P87795-425)	HPE ProLiant Compute ML350 Gen12 6515P 2.3GHz 16c 1P 2x32GB-R 8SFF MR408i-o 2x1000W PS EU Server (P95988-425)
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 (optional subscription available). Refer to the iLO 7 User Guide	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 (optional subscription available).	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 (optional subscription available). Refer to the iLO 7 User Guide	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 (optional subscription available).	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. Refer to the iLO 7 User Guide
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. For full security features refer to the QuickSpecs.				
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, to supplement the product warranty, is available. For more information, visit: 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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