HPE ProLiant ML110 Gen11



What's new

- Powered by 4th and 5th Gen Intel® Xeon® Scalable Processors that support up to 32 cores, 185W TDP.
- Increased memory bandwidth to 5600 MT/s[1] , performance and lower power requirements with up to 1.5 TB DDR5 memory capacity with 16 DIMM slots.
- Advanced data transfer rates from the PCIe Gen5 serial expansion bus, support up to 4 standard PCIe Gen5 x16 slots and 1 OCP 3.0 x16 slots.
- 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

Overview

Are you searching for an affordable tower server with enterprise-class reliability and performance to meet the requirements of your growing business?

The HPE ProLiant ML110 Gen11 server is an enhanced single processor tower with performance, expansion, and security at an affordable price. It supports the 4th and 5th Gen Intel® Xeon® Scalable processor, HPE DDR5 SmartMemory with a maximum capacity of 1536 GB, 4 x16 PCIe Gen5 slots, 1 x16 OCP3 slot, eight large form factor (LFF) or 16 small form factor (SFF) disk drives. It can easily be converted to a rack using 5.5U of rack space. The HPE ProLiant ML110 Gen11 server also offers optional redundant fan and redundant power supply to satisfy automatic fail-over needs, making this the ideal server for small- to mid-sized businesses, and remote and branch offices.

anywhere.

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

- Support NVIDIA RTX 4000 Ada Graphics Accelerator and L4 24GB PCIe Accelerator

Features

Intuitive Cloud Operating Experience: Simple, Unified, and Automated

HPE ProLiant ML110 Gen11 servers are engineered for your hybrid world. HPE 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 single console.

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

These experiences are engineered and built into 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 ML110 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.

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

The HPE ProLiant ML110 Gen11 server is an excellent choice for compute and data storage balanced workloads (IT infrastructure, Data Management, VDI, ERP/CRM) requiring outstanding performance, network and I/O bandwidth.

Harness advanced compute performance. HPE ProLiant ML110 Gen11 server is powered by 4th and 5th Gen Intel® Xeon® Scalable Processors that support up to 32 cores at 185W 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 1 x16 OCP slots to improve I/O throughput and reduce latency.

Utilize 16 DIMM slots for up to 1.5 TB DDR5 memory with increased memory bandwidth and performance, and lower power requirements.

Industry-leading Services and Ease of Deployment

The HPE ProLiant ML110 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 ML110 Gen11
Processor type	Intel
Processor family	4th Gen and 5th Gen Intel® Xeon® Scalable Processors
Processor core available	8 to 32 cores, depending on processor.
Processor cache	22.5 MB L3 - 60 MB L3, depending on processor.
Processor number	1
Processor speed	3.2 GHz, maximum depending on processor.
Maximum memory	1536 GB with 96 GB DDR5
Memory slots	16 DIMM slots
Memory type	HPE DDR5 Smart Memory
Memory protection features	Advanced ECC Memory Online Spare Mode Memory Lock Step Mode
Drive supported	4 to 8 LFF SAS/SATA or 8 to 16 SFF SAS/SATA HDD/SDD
Optical drive type	Optional DVD-ROM or DVD-RW. Optional via ODD cable Kit. Optional Half-Height RDX, up to 1. Refer to the QuickSpecs for more detail.
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.
Infrastructure management	Included: HPE iLO Standard with Intelligent Provisioning (embedded), HPE OneView Standard (requires download) Optional: HPE iLO Advanced, HPE OneView Advanced (require licenses) and HPE Compute Ops Management. Refer to the iLO 6 User Guide
Power supply type	2 Flexible Slot power supplies maximum, depending on model.
Expansion slots	2 to 4 x16 PCIe Gen5 and 1 x16 OCP3 slot. Refer to the QuickSpecs for more detail.
Network controller	Embedded 2x1Gb NIC
Storage controller	Embedded Intel VROC SATA/NVMe
System fan features	Depending on model, Standard 2 fans, non-hot-plug. Optional 2 additional fans for N+1 redundancy. Refer to the QuickSpecs for more detail.

Technical specifications	HPE ProLiant ML110 Gen11
Form factor	4.5U Tower. Optional standalone Tower-to-Rack conversion kit (P47394-B21) to convert the unit to a 5.5U Rack-mount server.
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
Accelerators	Optional: Supports NVIDIA L4/RTX 4000 Ada Graphics Accelerator for HPE, pending configuration

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.

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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