Data sheet

HPE ProLiant Compute EL240 Gen12

What's new

- New 2U Gen12 performance server sled for the HPE ProLiant Compute EL2000 Server Chassis.
- Intel® Xeon® 6 processor support with broader configuration headroom than the HPE ProLiant Compute EL220 Gen12.
- Optional PCIe expansion supporting GPU and advanced networking configurations.
- Support for NVIDIA® RTX PRO 4500 and RTX PRO 6000 Blackwell Server Edition GPUs.
- Two onboard M.2 slots with optional EDSFF and NS204-MFF boot device configurations.
- HPE iLO 7, HPE Compute Ops Management, and HPE OneView support secure remote operations.

Overview

Edge AI and analytics often require more compute, GPU acceleration, and expansion than compact edge locations can easily support. HPE ProLiant Compute EL240 Gen12 provides a high-performance 2U server sled for the HPE ProLiant Compute EL2000 Server Chassis.

The EL240 Gen12 supports Intel® Xeon® 6 processor configurations, up to 2 TB DDR5-6400 memory, two onboard M.2 slots with optional EDSFF and NS204-MFF boot device configurations, Open Compute Project (OCP) networking, and optional PCIe expansion. Supported configurations include NVIDIA® RTX PRO 4500 or RTX PRO 6000 Blackwell Server Edition GPUs, subject to the latest approved accelerator list. With HPE iLO 7, HPE Compute Ops Management, HPE OneView, and optional ruggedization kits in supported configurations, the EL240 Gen12 helps you deploy accelerated compute for AI, analytics, and other demanding workloads in harsh, remote, and space-constrained environments.

Features

Performance 2U Compute for AI-Ready Edge Deployments

HPE ProLiant Compute EL240 Gen12 gives you a higher-performance server sled option for the HPE ProLiant Compute EL2000 Server Chassis.

One EL240 Gen12 sled installs in an EL2000 server chassis, helping deploy more compute and expansion capability in constrained edge environments.

The 2U design supports single-pass cooling and higher thermal headroom for demanding workloads.

EL240 Gen12 is designed for analytics, inference, virtualization, and operational workloads that need more than compact 1U edge compute.

Intel® Xeon® 6 Processor Headroom for Demanding Workloads

EL240 Gen12 supports Intel® Xeon® 6 processor configurations, subject to the final supported processor matrix and published QuickSpecs.

Higher-TDP processor configurations are supported when paired with the supported 2U heatsink option.

Broader processor configuration headroom helps address more demanding edge workloads in a compact modular platform.

Modern Gen12 compute capabilities help refresh edge infrastructure while preserving rugged deployment models.

GPU and PCIe Expansion for Edge AI Acceleration

EL240 Gen12 supports OCP networking and optional PCIe expansion to match site-specific performance and connectivity needs.

Supported configurations include NVIDIA® RTX PRO 4500 and RTX PRO 6000 Blackwell Server Edition GPUs for inference and visual analytics.

Expansion options can support GPU or NIC configurations depending on processor, heatsink, storage, and overall system configuration.

The sled helps bring accelerated computing closer to data sources, sensors, and operational systems.

Secure Management and Ruggedization for Remote Sites

HPE iLO 7 provides dedicated management access to help monitor, secure, and service EL240 Gen12 systems across distributed edge sites.

HPE Compute Ops Management and HPE OneView support operational visibility and fleet consistency.

Two onboard M.2 slots with optional EDSFF and NS204-MFF boot device configurations support boot, local data capture, and edge application needs.

Optional MIL-SPEC kits help support ruggedized configurations for harsh environments when paired with supported EL2000 server chassis options.

Technical specifications	HPE ProLiant Compute EL240 Gen12
Storage	Two onboard M.2 slots with optional EDSFF and NS204-MFF boot device configurations.
High-density compute nodes	Supports Intel® Xeon® 6 processor configurations, subject to the final supported processor matrix and QuickSpecs supports higher-TDP processor configurations when paired with the supported 2U heatsink option.
Mechanical and power	2U edge compute sled installed in the HPE ProLiant Compute EL2000 Server Chassis one EL240 Gen12 per chassis SWaP-optimized ruggedized design front-to-back single-pass cooling with shared chassis fans OCP networking plus PCIe expansion for GPU and NIC options AC power via shared 1300W M-CRPS power supplies (900W @ 100-120VAC, 1300W @ 200-240VAC) optional -48 to -60VDC 1000W power support dual power supply architecture power redundancy dependent on configuration and load optional MIL-STD-810H and MIL-STD-461G ruggedization support.
Environmental, shock and vibration	Operating temperature 0°C to 55°C (configuration dependent) storage temperature -40°C to 70°C 8% to 90% operating humidity, non-condensing 5% to 95% non-operating humidity, non-condensing MIL-STD-810H shock and vibration certification goals (configuration dependent) MIL-STD-461G electromagnetic resilience certification goals (configuration dependent) ruggedized for vibration, shock, dust, and mobile edge deployments.
Built-in I/O	OCP 3.0 slot HPE iLO7 network port one USB-C port plus one USB-C iLO port
Expansion slots	One OCP networking slot; up to two PCIe expansion slots for GPU or NIC options; three maximum expansion slots. For detailed descriptions, reference 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://support.hpe.com.

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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PSN1014974175IDEN, November, 2026.

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