HPE ProLiant Compute DL110 Gen12



What's new

- Intel® Xeon® 6 SoC processors with Intel® vRAN Boost
- HPE DDR5 Smart Memory 6400 MT/s
- Intel® Advanced Matrix Extensions (AMX) in every core delivers up to 3.2x increase in RAN AI Perf/core[1]
- HPE iLO 7
- M.2 Digital Phase-Locked Loop (DPLL) timing module and M.2 Global Navigation Satellite System (GNSS)

Overview

Are you ready for the 6G future and edge AI?

Customized for edge applications requiring high bandwidth and low latency such as vRAN, and the 6G future, the HPE ProLiant Compute DL110 Gen12 is based on open, standards-compliant infrastructure and offers dense I/O capabilities with PCIe Gen5 speed, acceleration, and powerful compute driven by Intel® Xeon® 6 SoC processors. HPE ProLiant Compute DL110 Gen12 reduced footprint features a compact, short-depth, 1U/1P front-accessible chassis ruggedized with NEBS Level 3 compliance for harsh environments. Delivering the trusted HPE ProLiant experience with embedded HPE Integrated Lights-Out (iLO) management and security through HPE silicon root of trust, the HPE ProLiant Compute DL110 Gen12 is ready for communication service provider's 5G edge deployments.

Features

Purpose-built for Telco

NEBS L3 compliance ensures equipment operability and reliability in harsh edge environments.

Front-cabled, short-depth design fits macro-RAN sites.

Performance

Massive front-end bandwidth of 500 Gbps optimizes Open Radio Unit (O-RU) density to support demand for growing traffic capacity.

Intel® Xeon® 6 SoC processors with Intel® vRAN Boost, deliver up to 2.4x increase in RAN capacity.[2]

Intel® Advanced Matrix Extensions (AMX) in every core delivers up to 3.2x increase in RAN AI perf/core.

NVIDIA® L4 option is available for additional AI use cases.

Secure

Secure enclave is an independent security processor for multi-layered protection within the HPE iLO 7.

Top-tier security with the first industry standard servers to support FIPS 140-3 Level 3 certification, providing compliance with the most stringent regulations.

Supports NIST and CNSA 2.0 quantum resistance requirement with secure firmware signing against future quantum computing attacks.

Technical specifications	HPE ProLiant Compute DL110 Gen12
Processor type	Intel
Processor family	Intel® Xeon® 6 SoC processors
Processor core available	40 core
Processor cache	160 MB
Processor number	1
Processor speed	2.5 GHz
Maximum memory	512 GB with 128 GB DDR5
Memory slots	4 DIMM slots
Memory type	HPE DDR5 Smart Memory
Drive supported	Up to 2 M.2 NVMe SSD with Software RAID solution
Security	UEFI Secure Boot and Secure Start support. Intel® Software Guard Extensions (SGX) support. Immutable Silicon Root of Trust. Optional Trusted Supply Chain, iLO Security modes, Chassis Intrusion detection and Bezel Locking kits. For full security features refer to the QuickSpecs.
Infrastructure management	Included - HPE iLO7 Standard with Intelligent Provisioning (embedded), HPE OneView Standard (requires download). Optional - HPE iLO7 Advanced, and HPE OneView Advanced. Refer to the iLO 7 User Guide
Power supply type	HPE M-CRPS 1300W Hot Plug AC RAF Power Supply or HPE 1000W M-CRPS -48VDC Hot Plug Power Supply
Expansion slots	2, for detailed descriptions refer to the QuickSpecs
Network controller	Wide range of speeds and form factors (PCIe and OCP3.0). Please see QuickSpecs for network card choices.
System fan features	8 Hot-plug
Form factor	1U Rack

Technical specifications	HPE ProLiant Compute DL110 Gen12
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://www.hpe.com/support/ProLiantServers-Warranties. Additional HPE support and service coverage, to supplement the product warranty, is available at: https://www.hpe.com/support.
Accelerators	Up to (2) Half-Height Half-Length GPUs or up to (2) 100W In-Line Accelerators

[1] AI RAN performance per core gain vs previous generation. Intel [7ND34], February 2025.

[2] vRAN capacity increase vs previous generation. Intel [7ND21], January 2025.

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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