

HPE ProLiant RL300 Gen11

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Overview

Do you need compute that delivers high power efficiency along with high performance?

Building on HPE ProLiant as the legendary foundation, the HPE ProLiant RL300 Gen11 server delivers next-generation compute performance and power efficiency for a wide range of emerging cloud-native applications and use cases. The HPE ProLiant RL300 Gen11 server offers Ampere® Altra® and Ampere® Altra® Max processors with an industry-leading core count of up to 128 cores in a single-socket, 1U design. The HPE ProLiant RL300 Gen11 server is ideal for cloud providers, digital service providers, and digital-first enterprises running scale-out, cloud-native workloads, and who are offering digital services, media streaming, social platforms, e-commerce, financial, or online services, along with cloud-based services such as IaaS, PaaS and SaaS.

Features

More Cores, Less Wattage

The HPE ProLiant RL300 Gen11 server, with an industry-leading core count per socket, enables cloud-native providers to extract the most revenue from their highly parallel workloads, scaling up to 128 cores in a single-socket, 1U design.

Ampere processors leverage power efficient architecture to deliver performance at lower levels of power consumption, allowing providers to help eliminate underutilized rack space, expand their compute without a significant increase in energy budget, and help meet their rising sustainability goals.

Predictable Performance

The HPE ProLiant RL300 Gen11 server is designed to deliver predictable performance that is critical for cloud-native workloads, by leveraging Ampere processors with deterministic cores that operate at a constant clock speed.

Each physical core is single threaded with no simultaneous multi-threading (SMT), a secure approach that lessens the impact of problems like noisy neighbors.

Flexible Management

Building on HPE ProLiant as the legendary foundation, the HPE ProLiant RL300 Gen11 server delivers a consistent experience across the HPE ProLiant portfolio with an HPE iLO management and firmware stack that delivers robust reliability and security with silicon Root of Trust technology from HPE.

HPE is also providing the choice for customers seeking to expand their open-source strategy, by enabling OpenBMC and allowing customers who are developing their own self-managed BMC stack to pursue a secure transfer of ownership to enable OpenBMC management for the server following launch.

Technical specifications

HPE ProLiant RL300 Gen11

Processor family	Ampere® Altra® and Ampere® Altra® Max
Processor core available	80 to 128 cores
Processor cache	64 KB L1 I-cache, 64 KB L1 D-cache per core, 1 MB L2 cache per core
Processor speed	3.0 GHz
Expansion slots	4 PCIe Gen4, for detailed descriptions refer to the QuickSpecs
Maximum memory	4.0 TB with 256 GB DDR4
Memory slots	16
Memory type	DDR4 memory, depending on model
Memory protection features	ECC protected
Network controller	2 OCP 3.0 PCIe Gen4 slots available
Storage controller	Not supported
Infrastructure management	Included - HPE iLO Standard and Advanced features
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: http://h20564.www2.hpe.com/hpsc/wc/public/home . 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 http://www.hpe.com/support .
Drive supported	10 SFF NVMe SSDs or 8 SFF NVMe SSDs or 2 M.2 NVMe SSDs optional, depending on model

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For additional technical information, available models and options, please reference the [QuickSpecs](#)

HPE Pointnext Services

[HPE Pointnext Services](#) brings together technology and expertise to help you drive your business forward and prepare for whatever is next.

Operational Services from HPE Pointnext Services

[HPE Pointnext Tech Care](#) provides fast access to product-specific experts, an AI-driven digital experience, and general technical guidance to help enable constant innovation. We have reimagined IT support from the ground up to deliver faster answers and greater value. By continuously searching for better ways to do things—as opposed to just fixing things that break—HPE Pointnext Tech Care helps you focus on achieving your business goals.

[HPE Pointnext Complete Care](#) is a modular, edge-to-cloud IT environment service that provides a holistic approach to optimizing your entire IT environment, and achieving agreed upon IT outcomes and business goals through a personalized and customer-centric experience. All delivered by an assigned team of HPE Pointnext Services experts.

HPE Integration and Performance Services help you customize your experience at any stage of your product lifecycle with a menu of services based on individual needs, workloads, and technologies.

- Advise, design, and transform
- Deploy
- Integrate and migrate
- Operate and improve
- Financial Services
- GreenLake Management Services
- Retire and sanitize
- IT Training and personal development

Other related services

[HPE Education Services](#) delivers a comprehensive range of services to support your people as they expand their skills required for a digital transformation. Consult your HPE Sales Representative or Authorized Channel Partner of choice for any additional questions and support options.

Defective Media Retention is optional and allows you to retain Disk or eligible SSD/Flash Drives replaced by HPE due to malfunction.

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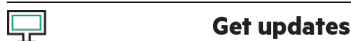
[HPE GreenLake](#) is HPE's market-leading IT as-a-Service offering that brings the cloud experience to apps and data everywhere – data centers, multi-clouds, and edges – with one unified operating model. HPE GreenLake delivers public cloud services and infrastructure for workloads on premises, fully managed in a pay per use model.

If you are looking for more services, like **IT financing solutions**, please [explore them here](#).

Explore **HPE GreenLake**

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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.

Ampere Altra and Altra Max (processors) is a trademark of Ampere Computing. All third-party marks are property of their respective owners.

Image may differ from the actual product
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