HPE Compute Scale-up Server 3200

What's new

- 4-16 processors in a single system, scale up in 4-socket increments to provide powerful data solutions.

- Powered with 4th Generation Intel® Xeon® Scalable processors.

- Modular scale-up 5U building block/chassis (4 sockets per chassis), built on the proven HPE Superdome Flex architecture.

- 128 GB - 32 TB of shared DDR5 memory using industry-standard 128 GB DIMMs.

- Choice of 6, 12, or 16 PCIe 5.0 slots per 4-socket chassis. A full scope of HBA, HCA, Fiber channel cards as well as L4/L40S and H100 NVL GPUs.

- Extreme RAS, superior security, and

Overview

Do you need high performance, availability, and security for mission-critical workloads?

The HPE Compute Scale-up Server 3200 is a reliably scalable server that starts at 4 and scales up to 16 powerful 4th Generation Intel® Xeon® Scalable processors in 4 socket increments. Its modular architecture scales cost-efficiently to meet your data growth needs. With 4 UPI links per platinum processor, it provides higher bandwidth and faster data rates than prior generations. Designed to support 128 GB–32 TB of shared memory, it is an ideal choice for in-memory and traditional databases. Extreme RAS capabilities including "firmware first," analysis engine, and auto self-healing enables high reliability for mission critical apps. Superior security, including HPE iLO Silicon Root of Trust, protects your workloads and data against firmware attacks and malware. Optional deployment with HPE GreenLake provides flexible as-a-service consumption while maintaining on-premises control.

optional as-a-service consumption with HPE GreenLake. nPars is also fully supported.

Features

Outpace Evolving Data Demands with Incredible Flexibility

HPE Compute Scale-up Server 3200 utilizes a proven modular architecture that scales seamlessly from 4 to 16 sockets, in 4-socket increments, in a single-system.

Scale-up architecture reduces both server sprawl and complex data reassembly for the target workloads, including SAP HANA, Oracle, and Microsoft SQL Server databases. It's also easier to manage than a scale out deployment.

Meet all your in-memory computing demands with up to 32 TB of shared memory.

Benefit from unbounded and flexible I/O with three different options depending on your workload requirements (Max GPU, Max I/O, Max drives).

Enjoy the flexibility of the cloud while retaining control of your most valuable asset, your data, with deployment via HPE GreenLake.

Process and Analyze Your Ever-Growing Data at Extreme Speed with Groundbreaking Performance at Scale

HPE Compute Scale-up Server 3200 is powered by 4th Gen Intel® Xeon® Scalable processors. With up to 60 cores per processor and built-in accelerators, these processors are designed to boost performance across the fastest-growing workloads, including AI and data analytics.

2X memory bandwidth compared to prior generation. Eight independent DDR5 memory channels per socket provide slots for up to 64 DIMMs per chassis. [1]

Achieve the performance levels required by critical applications with ultra-low latency and high bandwidth technology. Double the effective fabric bandwidth with innovative fabric link design.

Leverage innovative in-memory design and extreme shared memory capacity of up to 32 TB in a single platform.

I/O subsystem based on PCIe5.0 delivers 4x I/O bandwidth compared to prior models.

Protect Your Mission-Critical Workloads with Proven End-to-End Reliability and Trusted Security

HPE Compute Scale-up Server 3200 is classified as an AL4 system by IDC [2] to provide impressive resiliency.

Delivers excellent service levels on industry standards with extreme and proven RAS capabilities not available on other x86 platforms.

Contain errors at the firmware level, including memory errors, before any interruption can occur at the operating system layer with the Hewlett Packard Enterprise "Firmware First" approach.

Reduce human error with proven predictive fault handling analysis engine, which predicts hardware faults and initiates self-repair without operator assistance.

Decrease threat exposures with a reduced attack surface area backed by a robust security framework, a firewalled management network, and the HPE Silicon Root of Trust to reduce cyber risk and protect against firmware attacks and malware by providing an end-to-end supply chain with enhanced security.

Technical specifications

HPE Compute Scale-up Server 3200

Processor type	Intel
Processor family	4th Generation Intel® Xeon® Scalable Processors
Processor number	Up to 16 processors of 8490H (60-core), 8468H (48-core), 8460H (40-core), 8454H 32-core), 8450H (28-core), 8444H (16-core), or 6434H (8 core)
Processor cache	22.5 MB to 112.5 MB
Processor speed	1.9 - 4.0 GHz
Power supply type	2400W Platinum or Titanium options
Expansion slots	4 choices of PCIe expansion per chassis: 0-slots, 6-slots (4FH, 2 LP), 12-slots (8 FH, 4 LP), 16-slots (16 LP)
Maximum memory	32 TB
Memory slots	16 DIMM slots per processor, maximum 256 DIMM slots in a 16-socket system
Memory type	32 GB, 64 GB, 96 GB, or 128 GB DDR5
Drive description	SATA/SAS HDD SATA/SAS/NVMe SSD
Optical drive type	DVD-RW or DVD-R
System fan features	N+N (depending on workload hot-swappable and redundant fans
Network controller	1GbE - 200GbE optional add-in PCIe cards, 1 x OCP slot available
Management software	Redfish, CLI, Web-GUI
Warranty	3 year parts, 3 year labor and 3 year on-site limited global warranty

[1] Benchmarking and tests done with equivalent compute products in a controlled environment. HPE Research and Development, Houston, Texas, June 2023

[2] IDC, #US51038023, Mission-Critical Platforms Deliver Continuity in the Shift to a "Digital First" Business, July 2023

For additional technical information, available models and options, please reference the QuickSpecs

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.

Consulting 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.

Operational 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.

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.

The Defective Media Retention (DMR) service feature option applies only to Disk or eligible SSD/Flash Drives replaced by Hewlett Packard Enterprise due to malfunction. Comprehensive Defective Material Retention (CDMR) allows you to keep all data retentive components.

HPE GreenLake

HPE GreenLake edge-to-cloud platform is HPE's market-leading 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, 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**

Make the right purchase decision. Contact our presales specialists.

Call for availability

Chat now (sales)

Call now

Buy now

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