

Overview

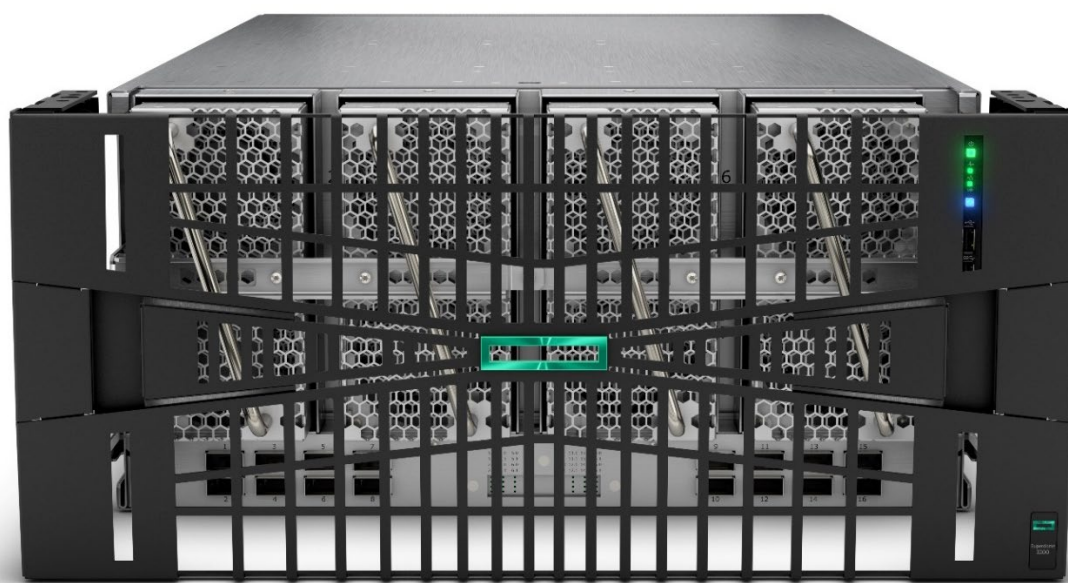
Shape the Future of QuickSpecs – Your Input Matters

HPE Compute Scale-up Server 3200

The Ultimate x86 based Mission-critical Platform

Unmatched reliability, performance and scale for your mission-critical workloads.

The HPE Compute Scale-up Server 3200 is the newest model in the HPE Compute Scale-up family of servers. This highly reliable, scalable and secure server starts at 4 and scales up to 32 powerful 4th generation Intel® Xeon® Scalable Processors, in 4 socket increments. Its modular architecture scales cost-efficiently to meet your data growth needs. To support growth of in-memory databases and data-intensive workloads, HPE Compute Scale-up Server 3200 offers large, shared memory capacity ranging from 128 GB to 64 TB. It utilizes ultra-fast DDR5 DIMMs with speeds up to 4800 MT/s and 16 DIMM slots per processor, delivering twice the memory bandwidth compared to prior generations. Its flexible I/O subsystem, based on PCIe5.0, delivers 4x I/O bandwidth compared to prior models Extreme RAS including advanced memory resiliency, “firmware first”, analysis engine, and auto self-healing ensures the highest reliability for mission critical apps. Superior security, including HPE Silicon Root of Trust and two TPM modules, protects your workloads and data against firmware attacks and malware. Complementary clustering software HPE Serviceguard for Linux provides rapid and automatic high application availability and disaster recovery capabilities. Optional deployment with HPE GreenLake provides flexible as-a-service consumption while maintaining on-premise control.

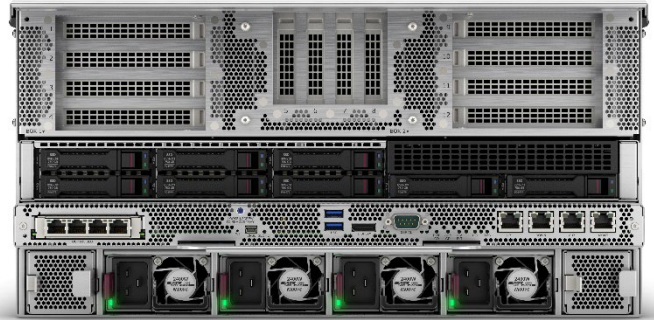


HPE Compute Scale-up Server 3200

Overview

**Base Chassis rear view (16-slot)**

16 x LP PCIe I/O slots
10 x HDD/SSD bays (options available)
DVD (not shown - option available)
OCP Card Slot
4 x Power supplies

**Base Chassis rear view (12-slot)**

12 x FH/LP PCIe I/O slots
8 x HDD/SSD bays +DVD (options available)
OCP Card slot
4 x Power supplies

**Base Chassis rear view (6-slot)**

6 x FH/LP PCIe I/O slots
16 x HDD/SSD bays (options available)
OCP Card slot
4 x Power supplies
DVD (optional)



Overview



Storage Backplane 10 x 2.5" SFF drive bays



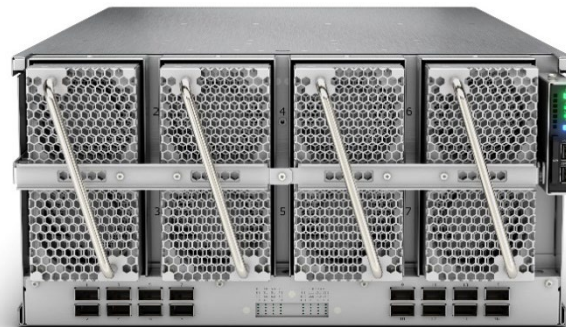
Storage Backplane 8 x 2.5" SFF drive bays



Storage Backplane 8 x 2.5" SFF drive bays and Optional DVD



Storage Backplane 16 x SFF Drive bays and Optional DVD



Base chassis front view

8 x Cooling Fans with handles
16 x NUMalink connectors
Front Panel Management



Overview

At a Glance Features

HPE Compute Scale-up Server 3200 is designed to power mission critical applications and databases, and specialized HPC and AI workloads. It offers:

- Support for 4 to 32-sockets of Intel Xeon Scalable processors in a single system with up to 60-cores per socket for a maximum of 1920 cores
- Up to 4 UPI links per socket providing unparalleled bandwidth and performance
- 64 DIMM slots of DDR5 memory per chassis
- 32GB - 128GB DDR5 with up to 64TB of shared memory
- 16 half-height IO slots OR 8 full-height + 4 half-height IO slots, OR 4 full-height + 2 half-height IO slots per four-socket chassis
- Base IO includes support for one PCIe Gen 4 x16 OCP slot, 8 SATA drives via VROC, two (2) system USB 3.0 ports on the back, one (1) system USB and one (1) RMC USB port on the front panel. The RMC USB can be connected to USB to ethernet adapter as a management LAN connection.
- Internal storage up to 24 drive bays and optional DVD, varies based on I/O support selected
- HPE Compute Scale-up Server 3200 Error Analysis Engine for better diagnostics, self-healing, and mission-critical reliability

General

The HPE Compute Scale-up Server 3200 is built using 4-socket, 5U chassis that are cabled together to create systems from 4-sockets (1 chassis) to 16 sockets (4 chassis). **A 32 socket (8 chassis) is also available with limited configurations.** Each chassis supports 8 fans, 4 power supplies, associated power cords, and connecting cables.

Power Supply (2400W)

R9P00A - HPE Compute Scale-up Server 3200 2x 2400W Platinum Hot Plug Power Supply Kit (kit of 2)

80PLUS Platinum Power Supply		
Loading	100% maximum	50% of maximum
Minimum Efficiency@230VAC	91%	94%
Rated Specifications	Value	Units
Input Voltage	200-240	Volts
Input Current (max)	13.5	Amps
Input Frequency (Typical)	50/60	Hz
Rated Output Power	2400	Watts

Notes:

- Mixing of Power Supplies within a chassis or system is not allowed
- Each SKU contains 2 power supplies, 2 kits are required per chassis

Power Supply (2400W) Optional

R9P01A - HPE Compute Scale-up Server 3200 2x 2400W Titanium Hot Plug Power Supply Kit (kit of 2)

80PLUS Titanium Power Supply		
Loading	100% maximum	50% of maximum
Minimum Efficiency @230VAC	91%	96%
Rated Specifications	Value	Units
Input Voltage	200-240	Volts
Input Current (max)	13.3	Amps
Input Frequency (Typ)	50/60	Hz
Rated Output Power	2400	Watts

Notes:

- Mixing of Power Supplies within a chassis or system is not allowed
- Each SKU contains 2 power supplies, 2 kits are required per chassis



Overview

System

The system can support up to four (4) chassis. An (8) chassis system with limited configurations is offered.

Notes: Ordering rules can be found in the [HPE Compute Scale-up Server 3200 menu](#) and in the [ordering and configuration tools](#).

Chassis

Each chassis has the following specifications:

- Support for four (4) Intel Xeon Scalable processors
- Supports up to 64 DDR5 DIMM slots (16 DIMMs per processor)
- Supports up to sixteen (16) PCIe Gen 5 slots
 - Eight (8) x16 PCIe Gen 5 slots and Eight (8) x8 PCIe Gen 5 slots
- Supports additional IO capability in a Base IO chassis (OCP Slot)

Base and expansion chassis

- Every HPE Compute Scale-up Server 3200 system starts with one 4-socket capable Base Chassis (with boot support). Up to three (3) Expansion Chassis can be added to expand the system from 4-sockets to 8, 12, or 16-sockets. A 32-socket system with (1) Base Chassis and (7) Expansion Chassis is available in limited configurations.
-



Standard Features

Processors

Each server chassis supports four (4) Intel® Xeon® Scalable processors:

- Intel Xeon-Platinum 8490H 1.9GHz 60-core 350W Processor Kit for HPE Compute Scale-up Server 3200
- Intel Xeon-Platinum 8468H 2.1GHz 48-core 330W Processor Kit for HPE Compute Scale-up Server 3200
- Intel Xeon-Platinum 8460H 2.2GHz 40-core 330W Processor Kit for HPE Compute Scale-up Server 3200
- Intel Xeon-Platinum 8454H 2.1GHz 32-core 270W Processor Kit for HPE Compute Scale-up Server 3200
- Intel Xeon-Platinum 8450H 2.0GHz 28-core 250W Processor Kit for HPE Compute Scale-up Server 3200
- Intel Xeon-Platinum 8444H 2.9GHz 16-core 270W Processor Kit for HPE Compute Scale-up Server 3200
- Intel Xeon-Gold 6434H 3.7GHz 8-core 195W Processor Kit for HPE Compute Scale-up Server 3200

Notes:

- All processors can be utilized to scale to 32 sockets
- All processors within a chassis, partition and chassis must be identical

Chipset

Intel C741 Chipset

Notes: For more information regarding Intel® chipsets, please see the following URL:

<https://www.intel.com/content/www/us/en/products/details/chipsets/server-chipsets.html>

Upgradability and scalability

Scalable from 4-socket configurations to 32-socket configurations.

A 32-socket system offering is available in limited configurations which can be scaled up to 64TB of memory.

- The 32-socket system is not an option in the OCA configuration tool and will require 'expert mode' to quote.
- Preferred configuration BOMs are available to build 32-socket systems
- 32-socket system configuration will require a CSG approval prior to quoting.
- Systems above 16-socket are limited to a 32-socket offering. System configurations of 20, 24, or 28-socket are not available.

Memory type Registered

- HPE Compute Scale-up Server 3200 32GB (1x32GB) Single Rank x4 DDR5-4800 Registered Std Memory Kit
- HPE Compute Scale-up Server 3200 64GB (1x64GB) Dual Rank x4 DDR5-4800 Registered Standard Memory Kit
- HPE Compute Scale-up Server 3200 96GB (1x96GB) Dual Rank x4 DDR5-4800 Registered Standard Memory Kit
- HPE Compute Scale-up Server 3200 128GB (1x128GB) Dual Rank x4 DDR5-4800 Registered Standard Memory Kit
- HPE Compute Scale-up Server 3200 128GB (1x128GB) Quad Rank x4 DDR5-4800 Registered 3DS Memory Kit

Memory protection

- DDR5 ECC correction with monitoring of Error Check and Scrub
 - Post Package Repair PPR as needed on power up
 - ADDDC and memory page retire for online resiliency
-



Standard Features

Operating System

- Red Hat Enterprise Linux (RHEL)
- SUSE Linux Enterprise Server (SLES)
- Oracle Linux
- VMware
- Microsoft Windows Server 2022 Standard and Datacenter
- Microsoft Windows Server 2025 Standard and Datacenter

Notes:

- HPE Foundation Software is required for all Linux O/S environments
- SLES, RHEL, and Oracle Linux certifications include KVM certification
- Minimum OS levels may be required for certain features and hardware options

Product SKU	Description	Windows 2022	Windows 2025	RHEL 8.6+	RHEL 9	SLES 15	VMWare 8	Oracle
P31324-H21	HPE InfiniBand HDR/Ethernet 200Gb 2-port QSFP56 PCIe4 x16 MCX653106A-HDAT Adapter	E	E	X	X	X		
P45641-H23	HPE InfiniBand NDR/Ethernet 400Gb 1-port OSFP PCIe5 x16 MCX75310AAS-NEAT Adapter	E	E	X	X	X	X	X
P45642-H22	HPE InfiniBand NDR200/Ethernet 200Gb 1-port OSFP PCIe5 x16 MCX75310AAS-HEAT Adapter	E	E	X	X	X	X	X
P21106-B21	Intel I350-T4 Ethernet 1Gb 4-port BASE-T Adapter for HPE	X	X	X	X	X	X	X
P26253-B21	Broadcom BCM57416 Ethernet 10Gb 2-port BASE-T Adapter for HPE	X	X	X	X	X	X	X
P26259-B21	Broadcom BCM57412 Ethernet 10Gb 2-port SFP+ Adapter for HPE	X	X	X	X	X	X	X
P13188-B21	Mellanox MCX512F-ACHT Ethernet 10/25Gb 2-port SFP28 Adapter for HPE	X	X	X	X	X	X	X
P08443-B21	Intel E810-XXVDA2 Ethernet 10/25Gb 2-port SFP28 Adapter for HPE	X	X	X	X	X	X	X
P08458-B21	Intel E810-XXVDA4 Ethernet 10/25Gb 4-port SFP28 Adapter for HPE	X	X	X	X	X	X	X
P21112-B21	Intel E810-CQDA2 Ethernet 100Gb 2-port QSFP28 Adapter for HPE	X	X	X	X	X	X	
P26264-B21	Broadcom BCM57504 Ethernet 10/25Gb 4-port SFP28 Adapter for HPE	X	X	X	X	X	X	
R4K46A	HPE Slingshot SA210S Ethernet 200Gb 1-port PCIe NIC			X	X	X	X	
P42041-B21	Mellanox MCX631432AS-ADAI Ethernet 10/25Gb 2-port SFP28 OCP3 Adapter for HPE	X	X	X	X	X	X	
P08449-B21	Intel I350-T4 Ethernet 1Gb 4-port BASE-T OCP3 Adapter for HPE	X	X	X	X	X	X	X
P10097-B21	Broadcom BCM57416 Ethernet 10Gb 2-port BASE-T OCP3 Adapter for HPE	X	X	X	X	X	X	X

Standard Features

Product SKU	Description	Windows 2022	Windows 2025	RHEL 8.6+	RHEL9	SLES15	VMWare 8	Oracle
P9D93A	HPE SN1100Q 16Gb Single Port Fibre Channel Host Bus Adapter	X	X	X	X	X	X	X
P9D94A	HPE SN1100Q 16Gb Dual Port Fibre Channel Host Bus Adapter	X	X	X	X	X	X	X
R2J62A	HPE SN1610E 32Gb 1-port Fibre Channel Host Bus Adapter	X	X	X	X	X	X	X
R2J63A	HPE SN1610E 32Gb 2-port Fibre Channel Host Bus Adapter	X	X	X	X	X	X	X
R2E08A	HPE SN1610Q 32Gb 1-port Fibre Channel Host Bus Adapter	X	X	X	X	X	X	X
R2E09A	HPE SN1610Q 32Gb 2-port Fibre Channel Host Bus Adapter	X	X	X	X	X	X	X
R7N77A	HPE SN1700E 64Gb 1-port Fibre Channel Host Bus Adapter	X	X	X	X	X	X	
R7N78A	HPE SN1700E 64Gb 2-port Fibre Channel Host Bus Adapter	X	X	X	X	X	X	
R7N86A	HPE SN1700Q 64Gb 1-port Fibre Channel Host Bus Adapter	X	X	X	X	X	X	
R7N87A	HPE SN1700Q 64Gb 2-port Fibre Channel Host Bus Adapter	X	X	X	X	X	X	
R4R52A	HPE SR3258p-32i/e 32-port 8GB Cache Tri-Mode 24G PCIe4 x16 Encrypted Controller	X		X	X	X	X	X
R9P58A	HPE SR3258p-16i/e 16-port 8GB Cache Tri-Mode 24G PCIe4 x16 Encrypted Controller	X		X	X	X	X	X
R9N96A	HPE MR9660-16i 16-port 8GB Cache Tri-Mode 24G PCIe4 x8 Controller	X	X	X	X	X	X	X
R9N97A	HPE MR9670-24i 24-port 8GB Cache Tri-Mode 24G PCIe4 x8 Controller	X	X	X	X	X	X	
R9N98A	HPE MR9670W-16i 16-port 8GB Cache Tri-Mode 24G PCIe4 x16 Controller	X	X	X	X	X	X	X
R9N99A	HPE SR3254-16e/e 16-port 4GB Cache External 24G PCIe4 x16 Encrypted Controller	X		X	X	X	X	X
S0K89C	NVIDIA L4 24GB PCIe Accelerator for HPE	X		X	X	X	X	
S2L70C	NVIDIA L40S 48GB PCIe Accelerator	X		X	X	X	X	
S2D86C	NVIDIA H100 NVL 94GB PCIe Accelerator for HPE	X		X	X	X	X	

Notes:

- X = Supported
- E = Ethernet Mode Only
- Minimum OS levels are required for support of some processors and options
- HPE Compute Scale-up Server 3200 I/O Oracle Linux Support: Hewlett Packard Enterprise only supports the use of in distribution drivers with Oracle Linux and UEK update releases. All controllers tested above used the driver located on the source media for their respective Oracle product. Out of distribution drivers are not supported with Oracle Linux, or UEK.
- HPE Compute Scale-up Server 3200 I/O VMware Support: I/O configurations with VMware must adhere to the “vSphere Configuration Maximums” as documented by VMware per controller type and manufacturer.
- For more information on the HPE Certified and Supported Hewlett Packard Enterprise servers for OS and Virtualization Software and latest listing of software drivers available for your server, please visit our Support Matrix at: <https://www.hpe.com/info/ossupport>

Standard Features

Partitioning

- Multiple electrically isolated HPE nPartitions (HPE nPars) supported per system.
- Please refer to the table below for HPE nPars Partition Options.
- All Processors and Memory must be the same within a Partition.
- Repartitioning does not require recabling
- **32-socket configurations are limited to a single HPE nPartition**

Solution ID 11 partitioning configurations

	1 Chassis	1 Config		
1	4s			
	2 Chassis	2 Configs		
2	4s	4s		
3	8s			
	3 Chassis	3 Configs		
4	4s	4s	4s	
5	8s		4s	
6	12s			
	4 Chassis	5 Configs		
7	4s	4s	4s	4s
8	8s		4s	4s
9	8s		8s	
10	12s			4s
11	16s			



Standard Features

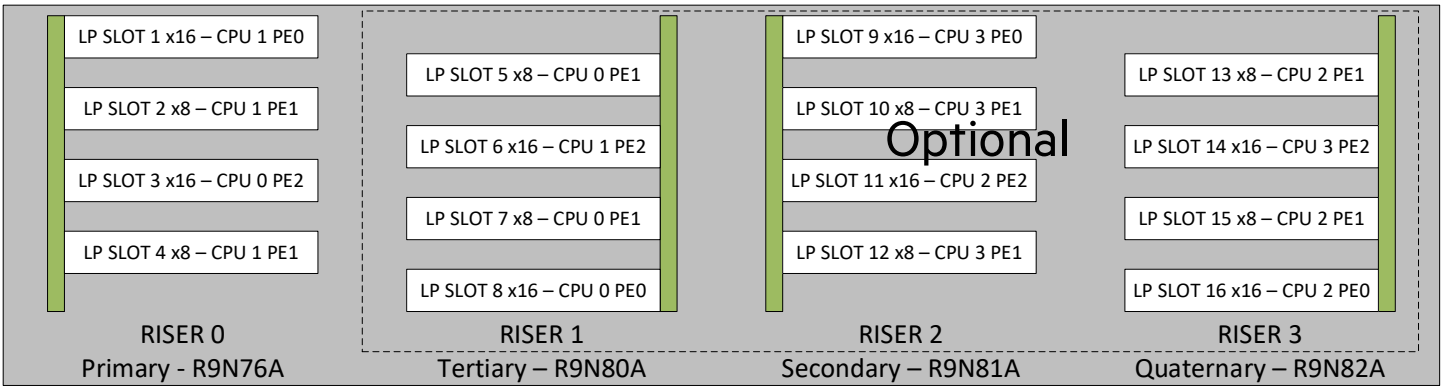
	1 Chassis	1 Config		
1	4s			
	2 Chassis	2 Configs		
2	4s	4s		
3	8s			
	3 Chassis	3 Configs		
4	4s	4s	4s	
5	8s		4s	
6	12s			
	4 Chassis	5 Configs		
7	4s	4s	4s	4s
8	8s		4s	4s
9	8s		8s	
10	12s			4s
11	16s			



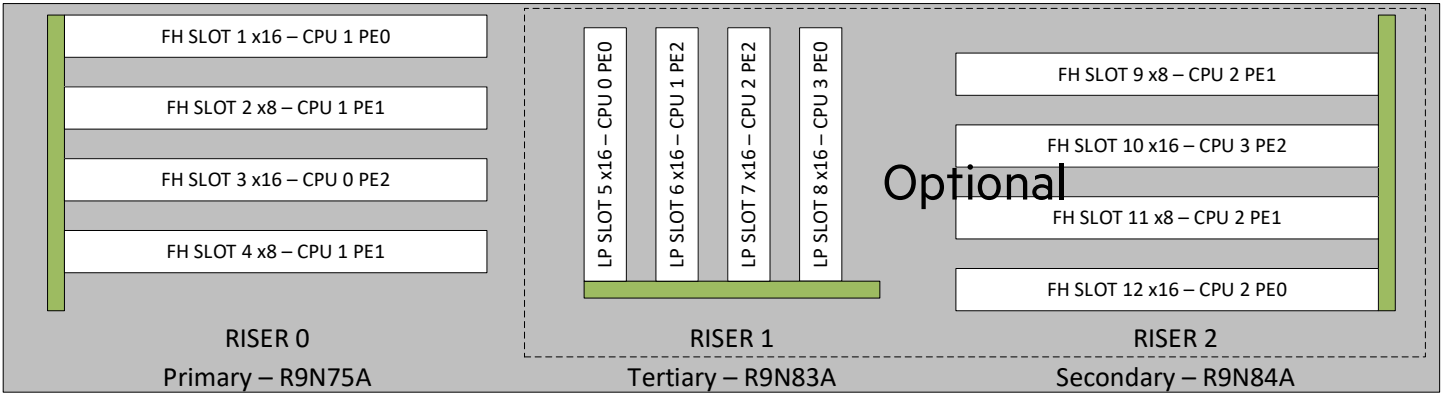
Standard Features

I/O Slots

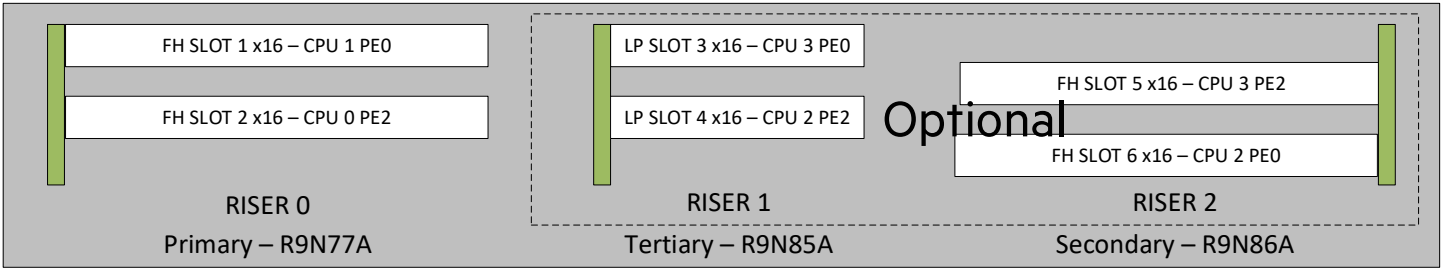
Chassis support either 16 half-height PCIe slots (8 x16 slots and 8 x8 slots); 12 slots with eight-full height slots (4 x16 slots and 4 x8 slots) + 4 half-height slots (4 x16 slots); 6 slots with four full-height (4 x16) + two half-height (2 x16) or a compute-only configuration(no PCIe slots). The compute-only configuration is only supported with the Expansion Chassis.



Max I/O



Max GPU



Max Storage



Standard Features



Base Chassis Base I/O

- One OCP Card Access
- One Reset switch
- One RMC console (mini USB-B)
- Two external USB 3.0 ports
- One Display Port
- One serial port (9-pin Dsub)
- Set of System Indicator lights
- Three RJ45 ports for inter-chassis management connection
- One RJ45 RMC Management port

Notes: HPE Compute Scale-up Server 3200 chassis does not come with embedded networking, hence the requirement to configure with either a FlexibleLOM or select PCIe networking adapter.

Form Factor

5U Base Chassis or Expansion Chassis

High availability-standard server features

- 2N (N+N) redundant (2400W) power supplies
- N+1 fans (or greater depending on the load)
- Hot-Swappable and redundant fans, power supplies
- HPE Analysis Engine Logging and Reporting
- Full Support for Fault Resilient boot with indictments and deconfigures
- Enhanced MCA Gen2 recovery
- Post Package Repair (PPR) with ADDDC memory options
- ECC, re-tries, and Link Width Reduction on data paths
- Automatic de-configuration of DIMMs. Processor de-configuration
- I/O Advanced Error Recovery
- Enhanced Downstream Port Containment
- PCIe Isolation
- Redundant and Failover in Fabric Lanes; Automatic rerouting; Error correction
- Resilient Internal Management LAN
- Front Panel Management device

Standard Warranty

Three-year parts, 3 Year Labor and 3 Year on-site limited global warranty.

Protected by HPE Services operational services and a worldwide network of Hewlett Packard Enterprise Authorized Channel Partners.

Hewlett Packard Enterprise branded hardware and options qualified for the HPE Compute Scale-up Server 3200 are covered by a global limited warranty and supported by HPE Services and a worldwide network of HPE Authorized Channel Partners. The HPE branded hardware and options diagnostic support and repair is available for three years from date of purchase, or the warranty length of the server they are attached to, whichever is greater. Additional support may be covered under the warranty or available through additional support packages. Enhancements to warranty services are available through HPE Services operational services or customized service agreements.

Additional information regarding worldwide limited warranty and technical support is available at:

<https://support.hpe.com/hpsc/doc/public/display?docId=c01865770>

Standard Features

Physical and Environmental Information

Systems are comprised of the following components: Base chassis plus Expansion chassis.

Enclosure

The system can be field racked. However, it is strongly recommended that customers order the systems racked from the factory. This provides the customer the benefit of extensive system testing and avoids possible premium service charges for field racking service. Field racking requires the use of an appropriate material lift capable of lifting 125+ lbs.

Systems are supported in the HPE 600mm wide and 800mm wide racks, and the HPE D-rack. Rack availability is dependent on size of system complex.

Other products may be placed in the same rack as the system. Placement of these other products must not result in moving the server chassis.

All racks in the same order must be the same height and width.

Hardware Configuration	
Number of chassis per compute system	1/2/3/4/8
Number of processor modules per compute system (min/max)	4/8/12/16/32
Number of DIMMs (min/max)	1, 4, 8, 12 or 16 per socket
Number of I/O slots	16 Low Profile per chassis Or 8 Full Height and 4 Low Profile per chassis Or 4 Full Height and 2 Low Profile per chassis Or Compute only 0-slot (Expansion Chassis only)
Number of RMCs	1 per chassis. Base chassis is primary controller
Number of Base IO	1
SAS/SATA drives per Chassis	Up to 24 depending on number of IO slots selected
DVD module per Base IO	0-1 (depending on number of drives)
Fans	8 per chassis front, 2 in rear
Power Supplies (2400W)	2N: 4 per chassis

The system is supported in the HPE 600mm and 800mm series racks and the HPE D-rack with a standard rack door.

Configuration Rules

The chassis is the basic building block.

- A single system can be supported in 1-Chassis to 8-Chassis configurations. An embedded Rack Management Controller is included with Base chassis.
- Each system starts with one (1) Base Chassis. Up to three (3) Expansion Chassis can be added to scale the system. A (1) Base Chassis (7) Expansion Chassis system is available in limited configurations.
- There are single phase and three phase power distribution options.
- Mixing of Power Supplies within a chassis or system is not allowed
- All processors within a chassis, partition or system must be of the same processor type
- Default boot slots dependent on what IO selection is made and slot is populated with a bootable PCIe card
 - 12-slot/16-slot: 3,1,11
 - 6-slot: 2,1,6
- One (1) Additional/Customizable boot slot available for a total of four (4) boot slots



Standard Features

Racking Choices

HPE Compute Scale-up Server 3200 can be racked in many of the HPE G2 Enterprise Series and Advanced Series racks, and the HPE D-Rack. Complete ordering rules can be found in the HPE Compute Scale-up Server 3200 menu and in the ordering and configuration tools.

The HPE Compute Scale-up Server 3200 can also be rack mounted in 3rd party rack. Specific rules and guidelines for this are available here:

[HPE Compute Scale-up Server 3200 Rack Planning Checklist](#)

[HPE Compute Scale-up Server 3200 Rackmounting Guide](#)

The following racks are supported with HPE Compute Scale-up Server 3200—refer to the server menu for ordering and configuration rules:

- HPE 22U 600x1075mm Adv G2 Shock Rack
- HPE 36U 600x1075mm Adv G2 Kit Shock Rack
- HPE 42U 600x1200mm Adv G2 Kit Shock Rack
- HPE 42U 600x1075mm Adv G2 Kit Shock Rack
- HPE 42U 600x1075 Ent G2 Shock Rack
- HPE 42U 600x1200 Ent G2 Shock Rack
- HPE 42U 800x1075 Ent G2 Shock Rack
- HPE 42U 800x1200 Ent G2 Shock Rack
- HPE 48U 600x1075 Ent G2 Shock Rack
- HPE 48U 600x1200 Ent G2 Shock Rack
- HPE 48U 800x1200 Ent G2 Shock Rack
- HPE 42U 610mm x 1156mm D-Rack
- HPE D-Rack 42U 610mm x 1156mm Extended

The default assumption is that chassis are loaded in the rack at the bottom. It is recommended that 1U is left below the bottom of the compute enclosure in the 42U rack to provide PDU and cabling exit space.

Supported configurations have the system located at the bottom of the rack with peripherals located above all chassis.

HPE G2 Enterprise Series Racks QuickSpecs:

<https://www.hpe.com/h20195/v2/GetDocument.aspx?docname=a00002907enw>

HPE G2 Advanced Series Racks QuickSpecs:

<https://www.hpe.com/h20195/v2/GetDocument.aspx?docname=c05324689>

Enlogic by nVent G3 Enterprise Power Distribution Units for HPE QuickSpecs:

<https://h20195.www2.hpe.com/v2/GetDocument.aspx?docname=c05324691>

HPE G2 Metered Power Distribution Units QuickSpecs:

https://www.hpe.com/psnow/doc/a00002908enw.pdf?jumpid=in_pdp-psnow-qs

G2 and G3 PDUs supported on HPE Compute Scale-up Server 3200

P9R80A	HPE G2 Metered Modular 3Ph 17.3kVA/60309 60A 4-wire 48A/208V Outlets (6) C19/1U Horizontal NA/JP PDU
P9R81A	HPE G2 Metered Modular 3Ph 22kVA/60309 5-wire 32A/230V Outlets (6) C19/1U Horizontal INTL PDU
P59420-B21	Enlogic by nVent G3 Basic 1-phase 4.9kVA/24A/200-240V Outlets (4) C13 (8) Combo C13/C19 PDU for HPE
P59421-B21	Enlogic by nVent G3 Basic 1-phase 7.3kVA/32A/200-240V Outlets (4) C13 (8) Combo C13/C19 PDU for HPE



Standard Features

PDU Model	Region	Power Phase	Input Voltage Range	Input Current	Circuit Breakers	Input Plug Type	Input Cord Length	Outlet	Dimensions
SOP01A	NA/JP	Three	200 - 240V	48A derated	6 x 20A	IEC 60309/460P9W	12'	6 x IEC320 C19	22.5"H x 2.0"W x 6.5"D
SOP02A	INTL	Three	380 - 415V	32A	6 x 16A	IEC 60309/532C6W	12'	6 x IEC320 C19	22.5"H x 2.0"W x 6.5"D
SOP03A	NA/JP	Single	200 - 240V	24A derated	2 x 20A	NEMA L6-30	12'	2 x IEC320 C19	11.6"H x 1.8"W x 3.9"D
SOP04A	INTL	Single	200 - 240V	32A	2 x 20A	IEC 60309/332C6W	12'	2 x IEC320 C19	11.6"H x 1.8"W x 3.9"D

HPE Destination Rack (D-Rack)

The HPE D-Rack is available for HPE Compute Scale-up Server 3200 in two models:

- HPE 42U 610mm x 1156mm D-Rack (H7C27A)
- HPE D-Rack 42U 610mm x 1156mm Extended (Q2T97A) The extended rack includes a 2U extension for a total of 44 rack units (44U).

Dimensions for a single 24-inch wide 42U rack	Height: 78.75 in. (200 cm) Width: 24.0 in. (60.9 cm) Depth: 46.0 in. (116.8 cm)
Shipping dimensions (single rack)	Height: 88.88 in. (225.8 cm) Width: 44.0 in. (111.8 cm) Depth: 62.75 in. (159.4 cm)
Weight (single rack)	386 lb. (175.1 kg)
Shipping weight (single rack)	856 lb. (388.3 kg)
Static load (max)	2400 lb. (1088.6 kg)
Dynamic load (max rolling)	2500 lb. (1134kg)
42U rack access requirements	Front: 48 in. (121.9 cm) Rear: 48 in. (121.9 cm) Top: 18 in. (45.7 cm)

HPE Power Advisor

The HPE Power Advisor is a tool provided by Hewlett-Packard to assist in the estimation of power consumption at a system, rack, and multi-rack level.

Available at: <https://www.hpe.com/info/poweradvisor>

Processor Support

HPE Compute Scale-up Server 3200 systems support Intel® Xeon® 4th Generation 84xxH and 64xxH as specified in the following table.

Notes:

- Maximum memory per socket includes DDR5 memory within the system
- Maximum memory is 2TB per socket
- Minimum OS levels are required for support of some processors and options



Standard Features

Supported Processor Matrix

Intel® Xeon® Scalable Processor Family 4th Generation

Processor	# of cores per processor	Frequency	Cache	Power
Intel® Xeon® Platinum 8490H Processor	60c	1.9 GHz	112.5 MB	350W
Intel® Xeon® Platinum 8468H Processor	48c	2.1 GHz	105 MB	330W
Intel® Xeon® Platinum 8460H Processor	40c	2.2 GHz	105 MB	330W
Intel® Xeon® Platinum 8454H Processor	32c	2.1 GHz	82.5 MB	270W
Intel® Xeon® Platinum 8450H Processor	28c	2.0 GHz	75 MB	250W
Intel® Xeon® Platinum 8444H Processor	16c	2.9 GHz	45 MB	270W
Intel® Xeon® Gold 6434H Processor	8c	3.7 GHz	22.5 MB	195W

Processor Mixing Support

Governing rules for mixing processors are as follows:

- No mixing of processor types within the same system
- All processors within all nPars within a complex must be identical in order to maximize repartitioning options

DDR5 Memory Support

Systems will use DDR5 DIMM technology.

The following DIMMs are supported in the chassis:

- 32GB 1Rx4 DDR5-4800R Registered DIMM
- 64GB 2Rx4 DDR5-4800R Registered DIMM
- 96GB 2Rx4 DDR5-4800R Registered DIMM
- 128G 4Rx4 DDR5-4800R 3DS Registered DIMM
- 128GB 2Rx4 DDR5-4800R Registered DIMM

Notes:

- Only DIMMs that Hewlett Packard Enterprise has qualified are supported.
- Each chassis supports up to 64 DIMMs. This breaks down to sixteen DIMMs per socket, 8 memory channels.
- General memory configuration rules:
 - For best performance, the amount of memory on each chassis within the system should be the same.
 - Must use the same amount of memory on each processor module within a partition.
- 128GB Quad Rank DDR5 3DS Memory is no longer sold to be configured with new systems. The memory remains available only as an option for upgrade. HPE Does not support mixing 128GB Dual Rank and Quad Rank (3DS) memory within the same complex/system. Ensure when adding 128GB DIMMs to an existing system that the same memory type either R9Q20A or S3Q76A as the original system is configured.



Standard Features

HPE Compute Scale-up Server 3200 Memory DIMM Configurations								
Memory Slot Configuration	DIMMS per Socket	Data Rate	Capacity per Socket	Total System Memory Capacity (TB)				
				4S	8S	12S	16S	32S
32GB RDIMM	1	4800 MT/s	32GB	128GB	256GB	384GB	512GB	1TB
	4	4800 MT/s	128GB	512GB	1TB	1.5TB	2TB	4TB
	8	4800 MT/s	256GB	1TB	2TB	3TB	4TB	6TB
	12	4400 MT/s	384GB	1.5TB	3TB	4.5TB	6TB	8TB
	16	4400 MT/s	512GB	2TB	4TB	6TB	8TB	16TB
64GB RDIMM	1	4800 MT/s	64GB	256GB	512GB	768GB	1TB	2TB
	4	4800 MT/s	256GB	1TB	2TB	3TB	4TB	4TB
	8	4800 MT/s	512GB	2TB	4TB	6TB	8TB	8TB
	12	4400 MT/s	768GB	3TB	6TB	9TB	12TB	24TB
	16	4400 MT/s	1TB	4TB	8TB	12TB	16TB	32TB
96GB RDIMM	8	4800 MT/s	768GB	3TB	6TB	9TB	12TB	24TB
	16	4400 MT/s	1.5TB	6TB	12TB	18TB	24TB	48TB
128GB RDIMM	8	4800 MT/s	1TB	4TB	8TB	12TB	16TB	32TB
	16	4400 MT/s	2TB	8TB	16TB	24TB	32TB	64TB
128GB RDIMM 3DS	1	4800 MT/s	128GB	512GB	1TB	1.5TB	2TB	4TB
	4	4800 MT/s	512GB	2TB	4TB	6TB	8TB	16TB
	8	4800 MT/s	1TB	4TB	8TB	12TB	16TB	32TB
	12	4400 MT/s	1.5TB	6TB	12TB	18TB	24TB	48TB
	16	4400 MT/s	2TB	8TB	16TB	24TB	32TB	64TB

Standard Features

Storage Option	Backplane SKU	RAID controller/ SKU	Lanes / Bay	Slot usage	Controller slot to Drive mapping	Cable SKUs	Chassis options / Drives
Internal storage configurations 1U							
No internal storage	N/A	N/A	N/A	N/A	N/A	N/A	Base & Expan, 0, 12 or 16 slots, 0 drives
8 drive standard 1U storage, Intel® VROC (SATA RAID), No Encryption, SATA only	R9N87A	Emmitsburg PCH	x1	No PCIe slots used	PCH: Box1/Drv 1-8	1x R9N93A	Base Only, 0, 12 or 16 slots, 8 drives
8 drive standard 1U storage, HW RAID, Encryption, x1 NVMe/SAS/SATA	R9N87A	R9P58A / 3258p-16i /e	x1	1 LP x16 slot and 1 LP x8 slot**	PCIe 3: Box1/Drv 1-8	1x R4S25A	Base & Expan, 12 or 16 slots, 8 drives
8 drive premium 1U storage, HW RAID, Encryption, x4 NVMe/SAS/SATA	R9N88A	R4R52A / 3258p-32i /e	x4	1 FH x16 slot and 1 LP x8 slot**	PCIe 3: Box1/Drv 1-8	2x R4S25A 2x R4R40A	Base & Expan, 12 slots, 8 drives
8 drive premium 1U storage, HW RAID, Encryption, x2 NVMe/SAS/SATA	R9N88A	R9P58A / 3258p-16i /e	x2	1 LP x16 slot and 1 LP x8 slot**	PCIe 3: Box1/Drv 1-8	1x R4R41A 1x R4R42A	Base & Expan, 12 or 16 slots, 8 drives
8 drive premium 1U storage, HW RAID, Encryption with SED drives, x2 NVMe / SAS / SATA	R9N88A	R9N96A / 9660-16i	x2	2 LP x8 slots**	PCIe 3: Box1/Drv 1-8	1x R4R41A 1x R4R42A	Base & Expan, 12 or 16 slots, 8 drives
8 drive premium 1U storage, Intel® CPU Direct-Attach, No Encryption, x4 NVMe	R9N88A	Intel CPU	x4	No PCIe slots used	CPU: 0/3 Box1/Drv 1-8	1x R9Q28A	Base & Expan, 0 or 12 slots, 8 drives
10 drive premium 1U storage, HW RAID, Encryption, Intel® VROC (SATA RAID), x4 NVMe / SAS / SATA	R9N88A R9N89A	R4R52A / 3258p-32i /e Emmitsburg PCH	x4	1 FH x16 slot and 1 LP x8 slot**	PCIe 3: Box1/Drv 1-8 #PCH: Box2/Drv 1-2	2x R4S25A 2x R4R40A 1x R9N94A	Base Only, 12 slots, 10 drives
10 drive premium 1U storage, HW RAID, Encryption, x2 NVMe / SAS / SATA	R9N88A R9N89A	R4R52A / 3258p-32i /e	x2/x4	1 FH x16 slot and 1 LP x8 slot**	PCIe 3: Box1/Drv 1-8 PCIe 3: Box2/Drv 1-2	1x R4R41A 1x R4R42A 1x R4R40A	Base & Expan, 12 slots, 10 drives

Standard Features

10 drive premium 1U storage, HW RAID, Encryption with SED drives, Intel® VROC (SATA RAID), x2 NVMe / SAS / SATA	R9N88A R9N89A	R9N96A / 9660-16i Emmitsburg PCH	x2/x4	2 LP x8 slots**	PCIe 3: Box1/Drv 1-8 #PCH: Box2/Drv 1-2	1x R4R41A 1x R4R42A 1x R9N94A	Base Only, 12 or 16 slots, 10 drives
10 drive premium 1U storage, Intel CPU/PCH Direct-Attach, No Encryption, x4 NVMe / SATA	R9N88A R9N89A	Intel CPU, Emmitsburg PCH	x4	No PCIe slots used	CPU0/3: Box1/Drv 1-8 #PCH: Box2/Drv 1-2	1x R9Q28A 1x R9N94A	Base Only, 0 or 12 slots, 10 drives

Storage Option	Backplane SKU	RAID controller / SKU	Lanes / Bay	Slot usage	Controller slot to Drive mapping	Cable SKUs	Chassis options / Drives
Internal storage configurations 2U							
8 drive standard 2U storage, Intel VROC (SATA RAID), No Encryption, x1 SATA Only	R9N90A	Emmitsburg PCH	x1	No PCIe slots used	PCH: Box1/Drv 1-8	1x R9N95A	Base Only, 0 or 6 slots, 8 drives
8 drive standard 2U storage, HW RAID, Encryption, x1 NVMe / SAS / SATA	R9N90A	R9P58A / 3258p-16i /e	x1	1 LP x16 slot*	PCIe 2: Box1/Drv 1-8	1x R4S25A	Base & Expan, 6 slots, 8 Drives
16 drive standard 2U storage, HW RAID, Encryption, x1 NVMe / SAS / SATA	2x R9N90A	R9P58A / 3258p-16i /e	x1	1 LP x16 slot*	PCIe 2: Box1/Drv 1-8 PCIe 2: Box3/Drv 1-8	1x R4S25A 1x R4R40A	Base & Expan, 6 slots, 16 drives
16 drive standard 2U storage, HW RAID, Encryption with SED drives, x1 NVMe / SAS / SATA	2x R9N90A	R9N96A / 9660-16i	x1	1 LP x8 slot*	PCIe 2: Box1/Drv 1-8 PCIe 2: Box3/Drv 1-8	1x R4S25A 1xR4R40A	Base & Expan, 6 slots, 16 drives



Standard Features

24 drive standard 2U storage, HW RAID, Encryption, x1 NVMe / SAS / SATA	3x R9N90A	R4R52A / 3258p-32i /e	X1	1 FH x16 slot and 1 LP x8 slot**	PCIe 2: Box1/Drv 1-8 PCIe 2: Box3/Drv 1-8 PCIe 3 Box 2/Drv 1-8	1x R4S25A 2xR4R40A	Base & Expan, 6 slots, 24 drives
8 drive premium 2U storage, HW RAID, Encryption, x4 NVMe / SAS / SATA	R9N91A	R4R52A / 3258p-32i /e	x4	1 FH x16 slot*	PCIe 2: Box1/Drv 1-8	4x R4S25A	Base & Expan, 6 slots, 8 drives
8 drive premium 2U storage, HW RAID, Encryption with SED drives, x2 NVMe / SAS / SATA	R9N91A	R9N96A / 9660-16i	x2	1 LP x8 slot*	PCIe 2: Box1/Drv 1-8	2x R4R41A	Base & Expan, 6 slots, 8 drives
8 drive premium 2U storage, Intel® CPU Direct-Attach, No Encryption, x4 NVMe	R9N91A	Intel CPU	x4	No PCIe slots used	CPU0/3: Box1/Drv 1-8	1x R9Q29A	Base & Expan, 0 or 6 slots, 8 drives
16 drive premium 2U storage, HW RAID, Encryption, x4 NVMe / SAS / SATA	2x R9N91A	2 x R4R52A / 3258p-32i /e	x4	2 FH x16 slots*	#PCIe 2: Box1/Drv 1-8 PCIe 1: Box3/Drv 1-8	4x R4S25A 4x R4R40A	Base & Expan, 6 slots, 16 drives
16 drive premium 2U storage, HW RAID, Encryption, x2 NVMe / SAS / SATA	2x R9N91A	R4R52A / 3258p-32i /e	x2	1 FH x16 slot*	PCIe 2: Box1/Drv 1-8 PCIe 2: Box3/Drv 1-8	2x R4R41A 2x R4R42A	Base & Expan, 6 slots, 16 drives (single RAID set)
16 drive premium 2U storage, HW RAID, Encryption with SED drives, x2 NVMe / SAS / SATA	2x R9N91A	2x R9N98A / 9670W-16i	x2	2 FH x16 slots*	#PCIe 2: Box1/Drv 1-8 PCIe 1: Box3/Drv 1-8	2x R4R41A 2x R4R42A	Base & Expan, 6 slots, 16 drives

Standard Features

16 drive premium 2U storage, Intel® CPU Direct-Attach, No encryption, x4 NVMe	2x R9N91A	Intel CPU	x4	No PCIe slots used	#CPU0/1: Box1/Drv 1-8 CPU3: Box3/Drv 1-8	1x R9Q29A 1x R9Q30A	Base & Expan, 0 or 6 slots, 16 drives
24 drive premium 2U storage, HW RAID, Encryption with SED drives, x2 NVMe / SAS / SATA	3x R9N91A	R4R52A / 3258p-32i /e; R9P58A/3 258p-16i /e	x2	1 FH x16 slot and 1 LP x8 slot** 1 LP x16	PCIe 2: Box1/Drv 1-8 PCIe 2: Box3/Drv 1-8 PCIe2 Box 2/Drv 1-8	2x R4R41A 4x R4R42A	Base & Expan, 6 slots, 24 drives
24 drive premium 2U storage, Intel® CPU Direct-Attach, No encryption, x4 NVMe	3x R9N91A	Intel CPU	x4	No PCIe slots used	#CPU0/1: Box1/Drv 1-8 CPU3: Box3/Drv 1-8	1x R9Q29A 1x R9Q30A	Base & Expan, 0 slots, 24 drives
12 drive premium 2U EDSFF storage, HW RAID, Encryption, x2 NVMe	1x R9N92A	R4R52A 3258p-32i /e	X2	1 FH x16 slot and 1 LP x8 slot**	PCIe 2: Box1 / Drv1-12	3x R4R41A	Base & Expan, 6 slots, 12 drives
12 drive premium 2U EDSFF storage, HW RAID, Encryption with SED drives, x4 NVMe	1x R9N92A	2 x R9N97A MR 9670-24i	X4	2 FH x8/x16	#PCIe 2: Box1 / Drv1-6 PCIe 1: Box1 / Drv7-12	6x R4S25A	Base & Expan, 6 slots, 12 drives
8 drive premium 2U EDSFF storage, Intel® CPU Direct-Attach ¹ , No encryption, x4 NVMe	1x R9N92A	Intel CPU	X4	No PCIe slots used	CPU0/1: Box1 / Drv1-8	1x R9Q29A	Base & Expan, 6 slots, 8 drives
12 drive premium 2U EDSFF storage, Intel® CPU Direct-Attach ¹ , No Encryption, x4 NVMe	1x R9N92A	Intel CPU	X4	No PCIe slots used	CPU0/1: Box1 / Drv1-12	1x R9Q29A 1x R9Q32A	Base & Expan, 6 slots, 12 drives



Standard Features

24 drive premium 2U EDSFF storage, HW RAID, Encryption, x2 NVMe	2x R9N92A	R4R52A 3258p-32i /e + R9P58A 3258p-16i /e	X2	1 FH x16 slot and 1 LP x8 slot** 1 LP x16	#PCIe 2: Box1 / Drv1-12 #PCIe 2: Box3 / Drv1-4 PCIe 1: Box3 / Drv5-12	3x R4R41A 3x R4R42A	Base & Expan, 6 slots, 24 drives
24 drive premium 2U EDSFF storage, HW RAID, Encryption with SED drives, x2 NVMe	2x R9N92A	2x R9N97A MR9670-24i	X2	2 FH x16 slots*	#PCIe 2: Box1 / Drv1-12 PCIe 1: Box3 / Drv1-12	3x R4R41A 3x R4R42A	Base & Expan, 6 slots, 24 drives
16 drive premium 2U EDSFF storage, Intel® CPU Direct-Attach ¹ , No Encryption, x4 NVMe	2x R9N92A	Intel CPU	X4	No PCIe slots used	CPU0/1: Box1 / Drv1-8 CPU2/3: Box3 / Drv1-8	1x R9Q29A 1x R9Q30A	Base & Expan, 6 slots, 16 drives
24 drive premium 2U EDSFF storage, Intel® CPU Direct-Attach ¹ , Encryption, x4 NVMe	2x R9N92A	Intel CPU	X4	No PCIe slots used	CPU0/1: Box1 / Drv1-12 CPU2/3: Box3 / Drv1-12	1x R9Q29A 1x R9Q32A 1x R9Q30A 1x R9Q33A	Base & Expan, 0 slots, 24 drives

Notes:

- Indicates one or two tethered super-caps are mounted in center DVD bay
- **Indicates adjacent slot used for tethered super-cap in mount PN P0006347-001
- # If more than one controller, this indicates the primary boot controller.
- ¹CPU Direct-Attach NVMe optionally supports RAID through the Intel VROC Premium E-RTU SKU - see Intel VROC for HPE QuickSpecs



Standard Features

Backplane type	Storage controller	Drive interface	Data lanes per drive bay	Data transfer rate	Maximum throughput
Standard	Emmitsburg PCH	SATA	1	6 Gb/s	600 MB/s
Standard	SmartRAID 32xx or MegaRAID 96xx	SATA	1	6 Gb/s	600 MB/s
Standard	SmartRAID 32xx or MegaRAID 96xx	SAS-3	1	12 Gb/s	1.2 GB/s
Standard	SmartRAID 32xx or MegaRAID 96xx	SAS-4	1	22.5 Gb/s	2.4 GB/s
Standard	SmartRAID 32xx or MegaRAID 96xx	NVMe (PCIe4)	1	16 GT/s	1.969 GB/s
Standard	Emmitsburg PCH or SmartRAID 32xx or MegaRAID 96xx	SATA	1	6 Gb/s	600 MB/s
Premium	SmartRAID 32xx or MegaRAID 96xx	SAS-3	1	12 Gb/s	1.2 GB/s
Premium	SmartRAID 32xx or MegaRAID 96xx	SAS-3 wide	2	24 Gb/s	2.4 GB/s
Premium	SmartRAID 32xx or MegaRAID 96xx	SAS-4	1	22.5 Gb/s	2.4 GB/s
Premium	SmartRAID 32xx or MegaRAID 96xx	SAS-4 wide	2	45 Gb/s	4.8 GB/s
Premium	Emmitsburg PCH	NVMe (PCIe3)	4	32 GT/s	3.938 GB/s
Premium	SmartRAID 32xx or MegaRAID 96xx	NVMe (PCIe4)	2	32 GT/s	3.938 GB/s
Premium	SmartRAID 32xx or MegaRAID 96xx	NVMe (PCIe4)	4	64 GT/s	7.877 GB/s
Premium	Intel CPU Direct-Attach	NVMe (PCIe4)	4	64 GT/s	7.877 GB/s
Premium	Intel CPU Direct-Attach	NVMe (PCIe4)	4	128 GT/s	15.754 GB/s

Notes:

- The speeds above are based on storage interface data transfer rates and are NOT measured performance.
- When multiple controller cards are used, there will be multiple RAID groups because drives on different controllers can't be in the same RAID group.
- When multiple controller cards are used, the first controller listed is the default boot controller.
- RAID 0, 1, 10, 5, 50, 6, and 60 supported
- The Base IO includes the embedded Intel® Emmitsburg PCH with VROC (Virtual RAID on Chip) SATA RAID controller for 6Gb SATA support of up to eight (8) 2.5" SATA drives (HDD/SSD). The 8-bay standard backplane or 2-bay premium backplane is connected to the Base IO for this configuration. VMware does not support the RAID mode of Intel® Emmitsburg SATA AHCI Controller in VMware ESXi. VROC is not supported on WINDOWS 2025 on this platform.



Standard Features

Security

HPE Compute Scale-up Server 3200 provides important architectural security features not found in other industry standard servers. HPE Compute Scale-up Server 3200 Mission Critical focus provides unique customer benefits without exposure to many vulnerabilities found in common server firmware.

- UEFI Secure Boot and Secure Start support, Enabled by default
- Immutable HPE iLO Silicon Root of Trust
- IDevID - Factory provisioned server identity
- IPv6 self-certified on RMC
- Auto secure FW recovery. RMC & PDHC watchdogs are fully enabled allowing RMC and PDHC to automatically reboot to recover from unexpected hangs.
- Tamper-free updates – components digitally signed and verified
- Secure Recovery – recover critical firmware to known a good state on detection of compromised firmware (per NIST SP800-193)
- Firmware rollback protection for critical Vulnerability fixes
- System TPM (Trusted Platform Module) 2.0 tamper-resistant and soldered down for all systems
- Manageability TPM for RMC
- Manageability Flash Encryption
- Chassis Intrusion detection standard
- FW update protected by RMC Admin authentication
- Firewalled Manageability Network
- Secure Out-of-Box passwords
- Code Signing uses CSNA--level crypto
- Directory access control (LDAP/Active Directory)
- Alternatives to PXE (Directed LAN Boot, HTTP Boot)
- Ability to disable HOST and RMC USB ports

Platform Management

The HPE Compute Scale-up Server 3200 delivers system administration, control, and platform management both via a Web GUI, a programmable Redfish API or a comprehensive and concise command-line interface. The Redfish® API can be used in many ways including:

- Directly in simple scripts to obtain inventory and monitoring information
- With HPE OneView for a graphical user interface, as well as manage multiple HPE systems concurrently in the datacenter at once
- With Openstack Ironic for Provisioning the OS

The Rack Management Controller in HPE Compute Scale-up Server 3200 is an embedded option (the "RMC") running within the Base Chassis.

The HPE Compute Scale-up Server 3200 has a built-in and always available platform management system. By integrating the management into the server platform, Hewlett Packard Enterprise ensures that every HPE Compute Scale-up Server 3200 comes with the full set of management features, and simplifies the task of integrating HPE Compute Scale-up Server 3200 into the data center. The purpose of the HPE Compute Scale-up Server 3200 management system is to:

- Provide built-in tools to manage hardware and provide mission-critical system availability (inventory, monitor, diagnose, configure, maintain, and self-healing)
- Make it easier for users and applications to manage the system (inventory, start, stop, connect console, and so on)



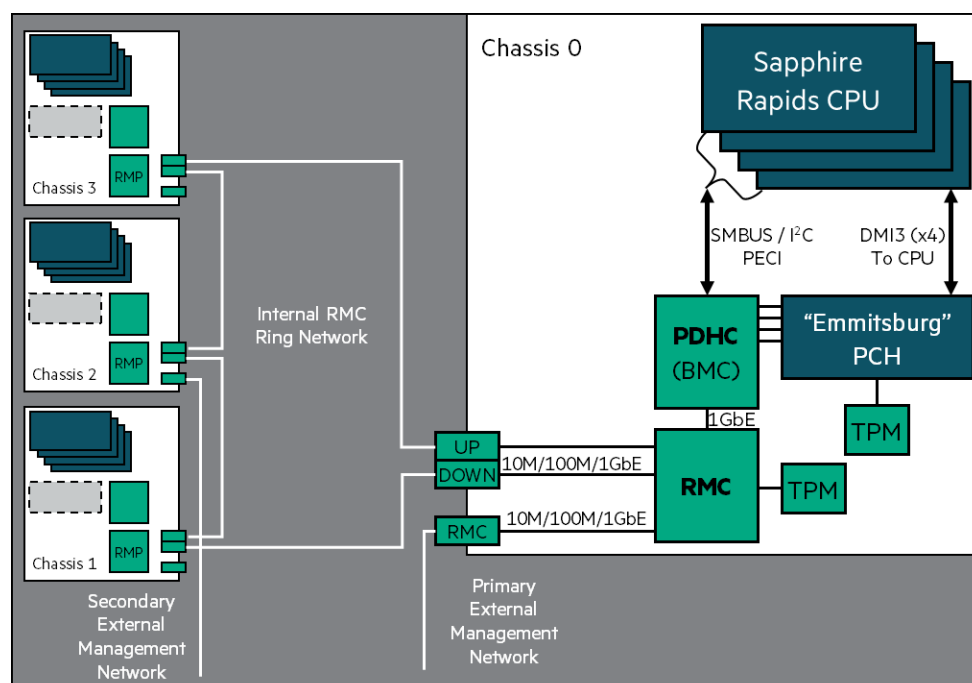
Standard Features

The HPE Compute Scale-up Server 3200 manageability system provides a very powerful control point for the system, and the RMC makes managing the HPE Compute Scale-up Server 3200 much easier by centralizing the control and building the management into the hardware and firmware of the system. It provides the following features:

- Web GUI for RMC – Redfish driven. Covers:
 - System inventory, health, configuration
 - Launch vMedia, vKVM (HTML5)
 - Configure UEFI reboot, power
 - RMC security settings
 - RMC LAN settings
- CLI for easy access to all RMC functions, providing potential scripting and power user convenience
- Console, and console logs
- Built-in Error Analysis Engine constantly monitors all system hardware, analyzes log and telemetry data, and determines corrective actions for highest system uptime (often performing corrective actions automatically)
- HPE Compute Scale-up Server 3200 RMC will interface directly with the HPE Remote Support software for data center wide fault management visibility and tie-in to HPE support services, such as the Insight Online portal
- Front Panel Management device functionality that provides, Power Button, System status Indicator LEDs including Power, UID and RMC indicator.
- The RMC accepts all valid update requests. FW update will be done immediately if possible. If the update requires power off, but one or more nPARs are powered on, the RMC will perform the update when all nPARs are powered off. In the case of single nPAR, the RMC will also update the complex when the nPAR reboot

The HPE Compute Scale-up Server 3200 supports full nPar (Partitioning):

- An nPartition is a set of HPE Compute Scale-up Server chassis defined to work together to form a single computer system, capable of running a bare metal OS. It is electrically isolated from other nPartitions in the complex.
- Once created, an nPartition behaves as an independent server, and can also be managed as an independent server. It has its own console for OS and can be independently reset and power-cycled. The RMP or RMC manages all nPartitions in the complex and management access remains the same as nPartitions are created, modified, or deleted.
- An HPE Compute Scale-up Server complex contains one or more HPE Compute Scale-up Server chassis in a rack that each contain individual compute, memory, networking, and storage resources. An nPartition is created and managed using the Rack Management Controller (RMC)



Service and Support

HPE Services

No matter where you are in your digital transformation journey, you can count on HPE Services to deliver the expertise you need when, where and how you need it. From planning to deployment, ongoing operations and beyond, our experts can help you realize your digital ambitions.

<https://www.hpe.com/services>

Consulting Services

No matter where you are in your journey to hybrid cloud, experts can help you map out your next steps. From determining what workloads should live where, to handling governance and compliance, to managing costs, our experts can help you optimize your operations.

<https://www.hpe.com/services/consulting>

HPE Managed Services

HPE runs your IT operations, providing services that monitor, operate, and optimize your infrastructure and applications, delivered consistently and globally to give you unified control and let you focus on innovation.

[HPE Managed Services | HPE](#)

Operational services

Optimize your entire IT environment and drive innovation. Manage day-to-day IT operational tasks while freeing up valuable time and resources. Meet service-level targets and business objectives with features designed to drive better business outcomes.

<https://www.hpe.com/services/operational>

HPE Complete Care Service

HPE Complete Care Service is a modular, edge-to-cloud IT environment service designed to help optimize your entire IT environment and achieve agreed upon IT outcomes and business goals through a personalized experience. All delivered by an assigned team of HPE Services experts. HPE Complete Care Service provides:

- A complete coverage approach -- edge to cloud
- An assigned HPE team
- Modular and fully personalized engagement
- Enhanced Incident Management experience with priority access
- Digitally enabled and AI driven customer experience

<https://www.hpe.com/services/completecure>

HPE Tech Care Service

HPE Tech Care Service is the operational support service experience for HPE products. The service goes beyond traditional support by providing access to product specific experts, an AI driven digital experience, and general technical guidance to not only reduce risk but constantly search for ways to do things better. HPE Tech Care Service delivers a customer-centric, AI driven, and digitally enabled customer experience to move your business forward. HPE Tech Care Service is available in three response levels. Basic, which provides 9x5 business hour availability and a 2-hour response time. Essential which provides a 15-minute response time 24x7 for most enterprise level customers, and Critical which includes a 6-hour repair commitment where available and outage management response for severity 1 incidents.

<https://www.hpe.com/services/techcare>



Service and Support

HPE Lifecycle Services

HPE Lifecycle Services provide a variety of options to help maintain your HPE systems and solutions at all stages of the product lifecycle. A few popular examples include:

- Lifecycle Install and Startup Services: Various levels for physical installation and power on, remote access setup, installation and startup, and enhanced installation services with the operating system.
- HPE Firmware Update Analysis Service: Recommendations for firmware revision levels for selected HPE products, taking into account the relevant revision dependencies within your IT environment.
- HPE Firmware Update Implementation Service: Implementation of firmware updates for selected HPE server, storage, and solution products, taking into account the relevant revision dependencies within your IT environment.
- Implementation assistance services: Highly trained technical service specialists to assist you with a variety of activities, ranging from design, implementation, and platform deployment to consolidation, migration, project management, and onsite technical forums.
- HPE Service Credits: Access to prepaid services for flexibility to choose from a variety of specialized service activities, including assessments, performance maintenance reviews, firmware management, professional services, and operational best practices.

Notes: To review the list of Lifecycle Services available for your product go to:

<https://www.hpe.com/services/lifecycle>

For a list of the most frequently purchased services using service credits, see the [HPE Service Credits Menu](#)

Other Related Services from HPE Services:

HPE Education Services

Training and certification designed for IT and business professionals across all industries. Broad catalogue of course offerings to expand skills and proficiencies in topics ranging from cloud and cybersecurity to AI and DevOps. 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.

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Services are sold by Hewlett Packard Enterprise and Hewlett Packard Enterprise Authorized Service Partners:

- Services for customers purchasing from HPE or an enterprise reseller are quoted using HPE order configuration tools.
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<https://www.hpe.com/us/en/contact-hpe.html>

For more information

<http://www.hpe.com/services>



Configuration Information

Ordering and Configuration

This section lists some of the steps required to configure a Factory Integrated Model. To ensure only valid configurations are ordered, Hewlett Packard Enterprise recommends the use of an HPE approved configurator. Contact your local sales representative for information on CTO product offerings and requirements.

Notes:

- Configure-to-order servers must start with a CTO Chassis
- FIO indicates that this option is a Factory Installable Option.

Additional Technical documentation may be found at: <http://www.hpe.com/support/computescaleup3200-docs>

Configuring HPE Compute Scale-up Server 3200

Rack choice

If No Rack Option is selected then a Virtual Rack should be selected

HPE Virtual Rack	M0S66A
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Base Chassis

HPE Compute Scale-up Server 3200 4-socket XNC Base Chassis	R9N70A
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HPE Compute Scale-up Server 3200 Data Solutions 4-socket XNC Base Chassis	R9N71A
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Notes:

- Every HPE Compute Scale-up Server 3200 system must have min 1/max 1 Base Chassis
- Adding Option code "#0D1" to the chassis will integrate the chassis into the rack (which must be on the same order)
- Chassis bezel is Optional and is not included

Expansion Chassis

HPE Compute Scale-up Server 3200 4-socket XNC Expansion Chassis	R9N72A
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HPE Compute Scale-up Server 3200 Data Solutions 4-socket XNC Expansion Chassis	R9N73A
--	--------

Notes:

- Adding Option code "#0D1" to the chassis will integrate the chassis into the rack (which must be on the same order)
- Chassis bezel is Optional and is not included

Scale Activation Kits

HPE Compute Scale-up Server 3200 Internal UPI Cable Kit	R9Y98A
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HPE Compute Scale-up Server 3200 4-socket Scale Activation Kit	R9P06A
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HPE Compute Scale-up Server 3200 8-socket Scale Activation Kit	R9P07A
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HPE Compute Scale-up Server 3200 12-socket Scale Activation Kit	R9P08A
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HPE Compute Scale-up Server 3200 16-socket Scale Activation Kit	R9P09A
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Notes: Any chassis configured with Platinum processors requires 1 x R9Y98A per chassis

Processors

Intel Xeon-Platinum 8490H 1.9GHz 60-core 350W Processor Kit for HPE Compute Scale-up Server 3200	R9P59A
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Intel Xeon-Platinum 8468H 2.1GHz 48-core 330W Processor Kit for HPE Compute Scale-up Server 3200	R9P60A
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Intel Xeon-Platinum 8460H 2.2GHz 40-core 330W Processor Kit for HPE Compute Scale-up Server 3200	R9P61A
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Intel Xeon-Platinum 8454H 2.1GHz 32-core 270W Processor Kit for HPE Compute Scale-up Server 3200	R9P62A
--	--------

Intel Xeon-Platinum 8450H 2.0GHz 28-core 250W Processor Kit for HPE Compute Scale-up Server 3200	R9P63A
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Intel Xeon-Platinum 8444H 2.9GHz 16-core 270W Processor Kit for HPE Compute Scale-up Server 3200	R9P64A
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Intel Xeon-Gold 6434H 3.7GHz 8-core 195W Processor Kit for HPE Compute Scale-up Server 3200	R9Q34A
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Notes:

- No mixing of processors within a single chassis, partition, or system
- Each Chassis requires minimum four (4) processors



Configuration Information

DDR5 Memory

HPE Compute Scale-up Server 3200 32GB (1x32GB) Single Rank x4 DDR5-4800 Registered Std Memory Kit	R9Q18A
HPE Compute Scale-up Server 3200 64GB (1x64GB) Dual Rank x4 DDR5-4800 Registered Standard Memory Kit	R9Q19A
HPE Compute Scale-up Server 3200 96GB (1x96GB) Dual Rank x4 DDR5-4800 Registered Standard Memory Kit	S3L10A
HPE Compute Scale-up Server 3200 128GB (1x128GB) Quad Rank x4 DDR5-4800 Registered 3DS Memory Kit	R9Q20A
HPE Compute Scale-up Server 3200 128GB (1x128GB) Dual Rank x4 DDR5-4800 R Standard Memory Kit	S3Q76A

Notes:

- Memory kits contain a single DIMM
- The 32GB, 64GB and 128GB Memory can be loaded either as 1, 4, 8, 12 or 16 per socket
- The 96GB Memory can be loaded either as 8 or 16 per socket only.
- 128GB Quad Rank DDR5 3DS Memory is no longer sold to be configured with new systems. The memory remains available only as an option for upgrade. HPE Does not support mixing 128GB Dual Rank and Quad Rank (3DS) memory within the same complex/system. Ensure when adding 128GB DIMMs to an existing system that the same memory type either R9Q20A or S3Q76A as the original system is configured.

Optical Drives

HPE Compute Scale-up Server 3200 9.5mm SATA 1U Internal DVD-RW Optical Drive	R9P03A
HPE Compute Scale-up Server 3200 9.5mm SATA 1U Internal DVD-ROM Optical Drive	R9Q25A
HPE Compute Scale-up Server 3200 9.5mm SATA 2U Internal DVD-ROM Optical Drive	R9Q26A
HPE Compute Scale-up Server 3200 9.5mm SATA 2U Internal DVD-RW Optical Drive	R9P04A

Notes:

- One (1) DVD is optional in Base Chassis and is not available in the Expansion Chassis
- DVD option is not allowed if optional 3rd Storage backplane is configured to Base Chassis

Storage Backplanes

HPE Compute Scale-up Server 3200 1U 8SFF Tri-Mode 24G U.3 BC Standard Backplane Kit	R9N87A
HPE Compute Scale-up Server 3200 1U 8SFF Tri-Mode 24Gx4 U.3 BC Premium Backplane Kit	R9N88A
HPE Compute Scale-up Server 3200 1U 2SFF Tri-Mode 24Gx4 U.3 BC Premium Backplane Kit	R9N89A
HPE Compute Scale-up Server 3200 2U 8SFF Tri-Mode 24G U.3 BC Standard Backplane Kit	R9N90A
HPE Compute Scale-up Server 3200 2U 8SFF Tri-Mode 24Gx4 U.3 BC Premium Backplane Kit	R9N91A
HPE Compute Scale-up Server 3200 2U 12EDSFF NVMe 32Gx4 E3.S Premium Backplane Kit	R9N92A

Notes:

- Internal storage cables will be added to the configuration as required. No user selection is needed.

Drives

Internal SATA Solid State Drives

HPE 480GB SATA 6G Mixed Use SFF BC Multi Vendor SSD	P40502-H21
HPE 960GB SATA 6G Mixed Use SFF BC Multi Vendor SSD	P40503-H21
HPE 1.92TB SATA 6G Mixed Use SFF BC Multi Vendor SSD	P40504-H21
HPE 3.84TB SATA 6G Mixed Use SFF BC Multi Vendor SSD	P40505-H21
HPE 960GB SATA 6G Mixed Use SFF BC Self-encrypting 5400M SSD	P58244-B21

Internal SAS Hard Disk Drives

HPE 1.8TB SAS 12G Mission Critical 10K SFF BC 3-year Warranty 512e Multi Vendor HDD	P53562-H21
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Configuration Information

Internal SAS Solid State Drives

HPE 800GB SAS 24G Mixed Use SFF BC Multi Vendor SSD	P49047-H21
HPE 1.6TB SAS 24G Mixed Use SFF BC Multi Vendor SSD	P49049-H21
HPE 3.2TB SAS 24G Mixed Use SFF BC Multi Vendor SSD	P49053-H21
HPE 6.4TB SAS 24G Mixed Use SFF BC Multi Vendor SSD	P49057-H21
HPE 7.68TB SAS 24G Read Intensive SFF BC Multi Vendor SSD	P49041-H21
HPE 15.36TB SAS 24G Read Intensive SFF BC Multi Vendor SSD	P49045-H21
HPE 1.6TB SAS Mixed Use SFF BC Self-encrypting FIPS 140-2 PM7 SSD	P63871-B21

NVMe U.3 Drives

HPE 800GB NVMe Gen4 Mainstream Performance Mixed Use SFF BC U.3 Static V2 Multi Vendor SSD	P64999-H21
HPE 1.6TB NVMe Gen4 Mainstream Performance Mixed Use SFF BC U.3 Static V2 Multi Vendor SSD	P65007-H21
HPE 3.2TB NVMe Gen4 Mainstream Performance Mixed Use SFF BC U.3 Static V2 Multi Vendor SSD	P65015-H21
HPE 6.4TB NVMe Gen4 Mainstream Performance Mixed Use SFF BC U.3 Static V2 Multi Vendor SSD	P65023-H21
HPE 1.6TB NVMe Gen4 High Performance Mixed Use SFF BC U.3 PM1735a SSD	P50227-B21
HPE 3.2TB NVMe Gen4 High Performance Mixed Use SFF BC U.3 PM1735a SSD	P50230-B21
HPE 6.4TB NVMe Gen4 High Performance Mixed Use SFF BC U.3 PM1735a SSD	P50233-B21
HPE 7.68TB NVMe Gen4 Mainstream Performance Read Intensive SFF BC U.3 Static V2 Multi Vendor SSD	P64848-H21
HPE 15.36TB NVMe Gen4 Mainstream Performance Read Intensive SFF BC U.3 Static SPDM Multi Vendor SSD	P69255-B21
HPE 3.2TB NVMe Gen4 High Performance Mixed Use SFF BC U.3 PS1030 SSD	P70426-B21
HPE 6.4TB NVMe Gen4 High Performance Mixed Use SFF BC U.3 PS1030 SSD	P70428-B21
HPE 7.68TB NVMe Gen4 High Performance Read Intensive SFF BC U.3 PS1010 SSD	P70434-B21
HPE 15.36TB NVMe Gen4 High Performance Read Intensive SFF BC U.3 PS1010 SSD	P70436-B21

NVMe EDSFF Drives

HPE 3.84TB NVMe Gen5 High Performance Read Intensive E3S EC1 EDSFF SPDM PM1743 SSD	P57799-B21
HPE 7.68TB NVMe Gen5 High Performance Read Intensive E3S EC1 EDSFF SPDM PM1743 SSD	P57803-B21
HPE 15.36TB NVMe Gen5 High Performance Read Intensive E3S EC1 EDSFF SPDM PM1743 SSD	P57807-B21
HPE 3.2TB NVMe Gen5 High Performance Mixed Use E3S EC1 EDSFF SPDM CM7 SSD	P61191-B21
HPE 6.4TB NVMe Gen5 High Performance Mixed Use E3S EC1 EDSFF SPDM CM7 SSD	P61195-B21
HPE 3.84TB NVMe Gen5 High Performance Read Intensive E3S EC1 EDSFF SPDM CM7 SSD	P61179-B21
HPE 7.68TB NVMe Gen5 High Performance Read Intensive E3S EC1 EDSFF SPDM CM7 SSD	P61183-B21
HPE 15.36TB NVMe Gen5 High Performance Read Intensive E3S EC1 EDSFF SPDM CM7 SSD	P61187-B21



Configuration Information

PCIe Infrastructure

Notes:

- Each chassis requires exactly one (1) PCIe option: R9N75A, R9N76A, R9N77A, R9N78A, or R9N79A
- The Base Chassis requires either R9N75A, R9N76A, or R9N77A

HPE Compute Scale-up Server 3200 PCIe Full Height 12-slot Bulkhead with 1x 4-slot 2x8/2x16 Riser Kit	R9N75A
HPE Compute Scale-up Server 3200 2x8/2x16 4-slot PCIe Secondary Riser for 2U PCIe 12-slot Bulkhead	R9N84A
HPE Compute Scale-up Server 3200 4x16 4-slot PCIe Tertiary Riser for 2U PCIe 12-slot Bulkhead	R9N83A

Notes: R9N75A includes two (2) Full Height x8 and two (2) Full Height x16 – Maximum Length of PCIe card when installed in 12-slot Bulkhead = 10.5". R9N75A also accommodates both Full Height and Low Profile cards

HPE Compute Scale-up Server 3200 PCIe Low Profile 16-slot Bulkhead with 1x 4-slot 2x8/2x16 Riser Kit	R9N76A
HPE Compute Scale-up Server 3200 2x8/2x16 4-slot PCIe Secondary Riser for 2U PCIe 16-slot Bulkhead	R9N81A
HPE Compute Scale-up Server 3200 2x8/2x16 4-slot PCIe Tertiary Riser for 2U PCIe 16-slot Bulkhead	R9N80A
HPE Compute Scale-up Server 3200 2x8/2x16 4-slot PCIe Quaternary Riser for 2U PCIe 16-slot Bulkhead	R9N82A

Notes: R9N76A includes two (2) Low Profile x8 and two (2) Low Profile x16 - Maximum Length of PCIe card when installed in 16-slot Bulkhead = 6.6".

HPE Compute Scale-up Server 3200 PCIe Full Height 6-slot Bulkhead with 1x 2-slot 2x16 Riser Kit	R9N77A
HPE Compute Scale-up Server 3200 2x16 2-slot PCIe Secondary Riser for 1U PCIe 6-slot Bulkhead	R9N86A
HPE Compute Scale-up Server 3200 2x16 2-slot PCIe Tertiary Riser for 1U PCIe 6-slot Bulkhead	R9N85A

Notes: R9N77A includes two (2) Full Height x16 – Maximum Length of PCIe card when installed in 12-slot Bulkhead = 10.5". R9N75A also accommodates both Full Height and Low Profile cards

HPE Compute Scale-up Server 3200 PCIe 2U 0-slot Compute Only Bulkhead	R9N78A
HPE Compute Scale-up Server 3200 PCIe 1U 0-slot Compute Only Bulkhead	R9N79A

RAID Controllers

HPE SR3258p-32i/e 32-port 8GB Cache Tri-Mode 24G PCIe4 x16 Encrypted Controller	R4R52A
HPE SR3258p-16i/e 16-port 8GB Cache Tri-Mode 24G PCIe4 x16 Encrypted Controller	R9P58A
HPE MR9660-16i 16-port 8GB Cache Tri-Mode 24G PCIe4 x8 Controller	R9N96A
HPE MR9670-24i 24-port 8GB Cache Tri-Mode 24G PCIe4 x8 Controller	R9N97A
HPE MR9670W-16i 16-port 8GB Cache Tri-Mode 24G PCIe4 x16 Controller	R9N98A
HPE SR3254-16e/e 16-port 4GB Cache External 24G PCIe4 x16 Encrypted Controller	R9N99A

Notes: R4R52A and R9P58A require a second PCIe slot for a tethered supercap

Fibre Channel HBAs

HPE SN1100Q 16Gb Single Port Fibre Channel Host Bus Adapter	P9D93A
HPE SN1100Q 16Gb Dual Port Fibre Channel Host Bus Adapter	P9D94A
HPE SN1610E 32Gb 1-port Fibre Channel Host Bus Adapter	R2J62A
HPE SN1610E 32Gb 2-port Fibre Channel Host Bus Adapter	R2J63A
HPE SN1610Q 32Gb 1-port Fibre Channel Host Bus Adapter	R2E08A
HPE SN1610Q 32Gb 2-port Fibre Channel Host Bus Adapter	R2E09A
HPE SN1700E 64Gb 1-port Fibre Channel Host Bus Adapter	R7N77A
HPE SN1700E 64Gb 2-port Fibre Channel Host Bus Adapter	R7N78A
HPE SN1700Q 64Gb 1-port Fibre Channel Host Bus Adapter	R7N86A
HPE SN1700Q 64Gb 2-port Fibre Channel Host Bus Adapter	R7N87A

Notes: Max eight (8) per chassis/ Max 16 per system



Configuration Information

Networking Controller cards - PCIe

Intel I350-T4 Ethernet 1Gb 4-port BASE-T Adapter for HPE	P21106-B21
Broadcom BCM57416 Ethernet 10Gb 2-port BASE-T Adapter for HPE	P26253-B21
Broadcom BCM57412 Ethernet 10Gb 2-port SFP+ Adapter for HPE	P26259-B21
Mellanox MCX512F-ACHT Ethernet 10/25Gb 2-port SFP28 Adapter for HPE	P13188-B21
Intel E810-XXVDA2 Ethernet 10/25Gb 2-port SFP28 Adapter for HPE	P08443-B21
Intel E810-XXVDA4 Ethernet 10/25Gb 4-port SFP28 Adapter for HPE	P08458-B21
Intel E810-CQDA2 Ethernet 100Gb 2-port QSFP28 Adapter for HPE	P21112-B21
Broadcom BCM57504 Ethernet 10/25Gb 4-port SFP28 Adapter for HPE	P26264-B21
HPE Slingshot SA210S Ethernet 200Gb 1-port PCIe NIC	R4K46A

Notes:

- Max eight (8) per chassis. Max 16 of any given card per system. Total 32 NICs per system. Exceptions listed below.
- P08458-B21 which is Max four (4) per chassis/Max 16 per system
- R4K46A is Max 2 per chassis/Max 8 per system
- Server networking transceiver and cable compatibility matrix can be found [here](#)

Network Controller cards – OCP

Intel I350-T4 Ethernet 1Gb 4-port BASE-T OCP3 Adapter for HPE	P08449-B21
Broadcom BCM57416 Ethernet 10Gb 2-port BASE-T OCP3 Adapter for HPE	P10097-B21
Mellanox MCX631432AS-ADAI Ethernet 10/25Gb 2-port SFP28 OCP3 Adapter for HPE	P42041-B21

Notes:

- Max one (1) per chassis
- Server networking transceiver and cable compatibility matrix can be found [here](#)

InfiniBand cards

HPE InfiniBand HDR/Ethernet 200Gb 2-port QSFP56 PCIe4 x16 MCX653106A-HDAT Adapter	P31324-H21
HPE InfiniBand NDR/Ethernet 400Gb 1-port OSFP PCIe5 x16 MCX75310AAS-NEAT Adapter	P45641-H23
HPE InfiniBand NDR200/Ethernet 200Gb 1-port OSFP PCIe5 x16 MCX75310AAS-HEAT Adapter	P45642-H22

Notes:

- Max eight (8) per chassis/Max 16 per system
- No mixing of InfiniBand card types in the same system

GPU Accelerators

NVIDIA L4 24GB PCIe Accelerator for HPE	S0K89C
NVIDIA H100 NVL 94GB PCIe Accelerator for HPE	S2D86C
NVIDIA L40S 48GB PCIe Accelerator	S2L70C
HPE Compute Scale-up Server 3200 12-pin/12-pin PCIe 600W High Power Accelerator Cable Kit	S0A88A

Notes:

- For L4, Max four (4) per chassis/Max 12 per system. One per PCIe riser
- For H100 NVL and L40S, Max four (4) per chassis/Max 8 per system
- No mixing of GPU controller types in the same chassis, system or partition
- S0A88A is required for each H100 NVL and L40S Accelerator.
- R9N75A or R9N77A is required to be in the same Chassis for the H100 NVL or L40S
- Inner node peer-to-peer communication is not supported
- Depending on total number of GPUs, installed power may be reduced to N+1



Configuration Information

Foundation Software

HPE Foundation Software 2 for Red Hat Enterprise Linux Media FIO LTU	Q7N13A
HPE Foundation Software 2 for SUSE Linux Enterprise Server Media FIO LTU	Q7N14A
HPE Foundation Software 2 for Red Hat Enterprise Linux Media	Q7Y82A
HPE Foundation Software 2 for SUSE Linux Enterprise Server Media	Q7Y83A
HPE Foundation Software 2 for Oracle Linux Media	Q7Y84A
HPE Foundation Software 2 for Red Hat Enterprise Linux Media License RTU	Q7N11A
HPE Foundation Software 2 for SUSE Linux Enterprise Server Media License RTU	Q7N12A
HPE Foundation Software 2 for Oracle License RTU	Q7N16A

Notes:

- Exactly one (1) RTU is required per system with a Linux O/S distribution
- Minimum one (1) Foundation SW FIO or Media is required per system with a Linux O/S distribution
- Selected RTU must match selected FIO and/or Media option

System Expansion and Upgrades

System Expansion Kits are utilized when scaling up a HPE Compute Scale-up 3200. When adding Expansion chassis, select the appropriate beginning and ending size of your system

HPE Compute Scale-up Server 3200 4-socket to 8-socket Scale Activation Kit	R9P65A
HPE Compute Scale-up Server 3200 4-socket to 12-socket Scale Activation Kit	R9P66A
HPE Compute Scale-up Server 3200 4-socket to 16-socket Scale Activation Kit	R9P67A
HPE Compute Scale-up Server 3200 8-socket to 12-socket Scale Activation Kit	R9P74A
HPE Compute Scale-up Server 3200 8-socket to 16-socket Scale Activation Kit	R9P75A
HPE Compute Scale-up Server 3200 12-socket to 16-socket Scale Activation Kit	R9P80A

Chassis Options

HPE Compute Scale-up Server 3200 Chassis Bezel	R9N74A
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Notes: One per chassis, all chassis should have the same option.



Technical Specifications

This section describes the physical and environmental information for a chassis.

HPE Compute Scale-up Server 3200 chassis	
Physical Information	
Site planning and installation included	Yes
Maximum Heat dissipation (fully populated chassis, no GPUs)	13.5 kBTU/hr
Depth (handle to handle)	905 mm / 35.63"
Width (not including mounting rails)	445 mm / 17.5"
Height	219.2 mm / 8.63" (5U)
Weight - Maximum (fully populated)	Range between 40.8 kg / 90 lb to 56.7 kg / 125 lb
Electrical and Environmental Characteristics	
Single phase (200/240)	4 x IE320-C19
Maximum Input Power total	4.74 KVA (no GPUs)
Environmental Characteristics	
Cooling airflow (front to back)	750 CFM (maximum)
Acoustics	91 dBA (maximum) 84 dBA (typical)
Temperature - Recommended Operating Range ^{1,2}	+18°C to +27°C
Temperature - Allowable Operating Range ^{1,2}	+5°C to +35°C
Maximum rate of temperature change	20°C/hr non-condensing
Non-operating temperature (storage)	-40°C to +60°C
Air quality	Gaseous contaminants must be at the G1 level or less as defined by ISA Standard ISA-71.04-1985
Humidity - Recommended Operating Range (non-condensing) ¹	-9°C DP to 15°C DP and 60% RH
Humidity - Allowable Operating Range (non-condensing) ¹	-12 °C DP and 8% RH to 24 °C DP and 85% RH
Non-operating relative humidity (storage)	8% RH to 90% RH and 32 °C DP
Maximum Operating altitude	3050m (10,000 ft)
Maximum Non-operating altitude (storage)	4500m (15,000 ft) non-pressurized

Notes:

- (1) The Recommended Operating Range is recommended for continuous operation. Operating within the Allowable Operating Range is supported but may result in a decrease in system performance.
- (2) All temperature ratings shown are for sea level. An altitude de-rating of 1°C per 300 m above 1524 m is applicable. No direct sunlight allowed. Upper operating limit is 3,048 m (10,000 ft).

Regulatory model numbers:

- Chassis (R9N70A, R9N71A, R9N72A R9N73A) RMN: CHPF-074

Additional Power Data

The maximum power figures given were developed with the maximum configuration running applications designed to draw the maximum power possible. It is highly unlikely that any real-world application will result in this amount of power use for any significant time period.



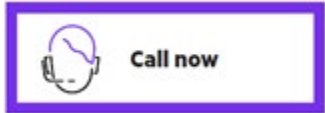
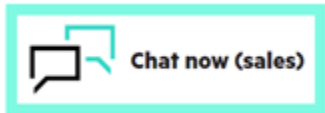
Summary of Changes

Date	Version History	Action	Description of Change
28-Jul-2025	<u>Version 13</u>	Changed	Update survey link.
23-Jun-2025	<u>Version 12</u>	Removed	This SKU P25960-B21 was removed
09-Jun-2025	<u>Version 11</u>	Removed	These two SKUs were removed from the standard features section on page 7 P23666-H21 and P23665-H21 These SKUs were removed from the Configuration Information section, under Internal SAS Solid State Drives and NVMe U.3 Drives on page 31 P49049-H21,P49053-H21,P49057-H21,P49041-H21,P49045-H21, P65007-H21,P65015-H21,P65023-H21,P69255-B21 These SKUs were removed from the Configuration Information section, under InfiniBand cards on page 34. P23665-H21 and P23666-H21
12-May-2025	<u>Version 10</u>	Changed	Overview and Standard Features sections were updated.
14-Apr-2025	<u>Version 9</u>	Changed	Overview and Standard Features sections were updated.
13-Jan-2025	<u>Version 8</u>	Changed	Standard Features section was updated.
02-Dec-2024	<u>Version 7</u>	Changed	Standard Features and Configuration Information sections were updated.
09-Sep-2024	<u>Version 6</u>	Changed	Standard Features section was updated.
05-Aug-2024	<u>Version 5</u>	Changed	Added new storage and drive options, added additional processor and memory options. Added partitioning support. Added GPU support. Added additional IO options for NICs, HBAs, Fc and IB.
18-Mar-2024	<u>Version 4</u>	Changed	Overview, Standard Features and Configuration Information sections were updated.
06-Nov-2023	<u>Version 3</u>	Changed	Standard Features, Service and Support, Configuration Information and Technical Specifications sections were updated.
02-Oct-2023	<u>Version 2</u>	Changed	Overview, Standard Features, Configuration Information, and Technical Specifications sections were updated.
05-Sep-2023	<u>Version 1</u>	New	New QuickSpecs



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