Overview

NVIDIA® Accelerators for HPE

Hewlett Packard Enterprise supports select NVIDIA GPUs and accelerators for Apollo, ProLiant Rack and Tower, Synergy, Cray, Superdome, and Edgeline systems to address HPC, AI, virtualization, edge computing, and graphics rendering and visualization.

Operating Systems and Virtualization Software Support for ProLiant Servers

See **HPE Servers Support & Certification Matrices**

- **Microsoft Windows Server**
- **VMware ESXi**
- **VMware Compatibility Guide**
- **Red Hat Enterprise Linux (RHEL)**
- **SUSE Linux Enterprise Server (SLES)**
- **Canonical Ubuntu**
- **Oracle Linux and Oracle VM**
- **Citrix**

Enterprise customers with a current vGPU software license (GRID vPC, GRID vApps or Quadro vDWS), can log into the enterprise software download **NVIDIA Drivers.**

Models

NVIDIA T4 16GB Computational Accelerator for HPE	R0W29C
L2NVIDIA Ampere 2-way 2-slot Bridge for HPE	R6V66A
NVIDIA A10 24GB PCIe Non-CEC Accelerator for HPE	R9W59C
NVIDIA A10 PCIe Non-CEC Accelerator for HPE	R9W59A
NVIDIA A40 48GB PCIe Non-CEC Accelerator for HPE	R9S37C
NVIDIA A2 16GB PCIe Non-CEC Accelerator for HPE	R9H23C
NVIDIA A16 64GB PCIe Non-CEC Accelerator for HPE	R8T26C
NVIDIA A30 PCIe Non-CEC Accelerator for HPE	R9S38C
NVIDIA H100 80GB PCIe Accelerator for HPE	R9S41C
NVIDIA H100 80GB PCIe Accelerator for HPE	R9S41A
NVIDIA L4 24GB PCIe Accelerator for HPE	S0K89C
NVIDIA L40 48GB PCIe Accelerator for HPE	S0K90C
NVIDIA L40S 48GB PCIe Accelerator	S2L70A
NVIDIA L40S 48GB PCIe Accelerator	S2L70C
NVIDIA H100 NVL 94GB PCIe Accelerator for HPE	S2D86C
NVIDIA H100 NVL 94GB PCIe Accelerator for HPE	S2D86A
NVIDIA RTX 4000 Ada Graphics Accelerator for HPE	S3T54C

Notes: Please see the HPE ProLiant Server QuickSpecs for configuration rules and including enablement kits.

Overview

XXXXXX is SKU designation formed by a common 6-digit part number with the last character that identifies a SKU that is available across multiple server family lines. Refer to the table below to find the SKU suffix to order by server product line. In some cases, Specialized Compute will leverage the -C SKU and Compute will leverage the -A SKU. .

-C	-A	-K21
COMPUTE	**SPECIALIZED COMPUTE**	**STORAGE**
HPE ProLiant Servers DL20/DL160/DL180 ML30/ML110/ML350 DL325/DL345/DL365/DL385 DL360/DL380/ DL380a/DL560/DL580 DX360/DX380 DX170r/DX190r/DX200/ DX560/DX4200 MicroServer HPE ProLiant for Microsoft Azure Stack HPE Synergy 480/660 Systems HPE Edgeline Systems and Servers HPE Integrity Superdome/Superdome Flex HPE Compute Scale-up Server	HPE Cray Supercomputing HPE Apollo 35/40/70 Systems HPE Apollo 2000/6500 Servers HPE XL170r/XL190rGen10 Server for BlueData Software HPE Converged System 300/500 HPE Integrity BL860c i6/BL870c i6/BL890c i6 Server Blades HPE Integrity MC990 X Server HPE Integrity rx2800 i6 Server	HPE Alletra 4110/4120/4140 Storage Server HPE Apollo 4200 Gen9/Gen10 Servers HPE Apollo 4200 Gen10 LFF Server for BlueData Software HPE Apollo 4510 Gen10 System HPE D3000/D6020/D8000 Disk Enclosures HPE SimpliVity 2600 HPE SimpliVity 325/380 Gen10

Notes: Disclaimer This may not be a complete listing of applicable servers

XXXXXX**-X21** is SKU designation formed by a common six digit part number and a **-X21** suffix that identifies a SKU that is available across multiple server family lines. Refer to the table below to find the SKU suffix that applies to the specific server product line this option can be ordered with.

-B21	-H21	-K21
COMPUTE Server Line	**SPECIALIZED COMPUTE Server Line**	**STORAGE Line**
HPE Cloudline CL2100/CL2200/CL2800/CL3100/CL4100/CL5200/CL5800 Servers HPE Composable Cloud for ProLiant DL HPE ProLiant BL460c/BL660c Servers HPE ProLiant DL20/DL160/DL180 Servers HPE ProLiant DL325/DL360/DL380/DL385/DL560/DL580 Servers HPE ProLiant DX360/DX380 Servers HPE ProLiant MicroServer HPE ProLiant for Microsoft Azure Stack HPE ProLiant ML30/ML110/ML350 Servers HPE Synergy 480/660 Systems HPE ProLiant DX170r/DX190r, DX2000 Servers HPE ProLiant DX560 Gen10 server HPE ProLiant DX4200 Gen10 server	HPE Apollo 35/40/70 Systems HPE Apollo 2000/6000 Servers HPE XL170r/XL190r/XL270d (Apollo 6500) Gen10 Server for BlueData Software HPE Converged System 300/500/700/750 HPE Edgeline Systems and Servers HPE Integrity BL860c i6/BL870c i6/BL890c i6 Server Blades HPE Integrity MC990 X Server HPE Integrity rx2800 i6 Server HPE Integrity Superdome HPE SGI 8600 System HPE Solutions for SAP HANA (TDI)	HPE Apollo 4200 Gen9/Gen10 Servers HPE Apollo 4200 Gen10 LFF Server for BlueData Software HPE Apollo 4510 Gen10 System HPE D2220sb/D2500sb Storage Blade HPE D3000/D6020/D8000 Disk Enclosures HPE Scalable Object Storage with Scality RING HPE SimpliVity 2600 HPE SimpliVity 325/380 Gen10 HPE Storage File Controllers HPE StoreEasy 1460/1560/1650/1660/1860 Disclaimer: This may not be a complete listing of applicable servers

Standard Features

NVIDIA Quadro P1000 Graphics Accelerator for HPE	
SKU	R3K70X | R3K70C
Performance	7.1TF SP
Memory Size	4 GB GDDR5
Memory Bandwidth	Up to 80 GB/s
Cores	640
System Interface	PCIe 3.0 x 16
Power	47W
Form Factor	2.713"x 5.7" L, Single Slot, Low Profile

Supported Servers	
R3K70X Supported Servers	**CPU** *
Edgeline EL1000 V2 m510	Broad
Edgeline EL1000 V2 m750	Coffee
Edgeline EL4000 V2 m750	Coffee
Edgeline EL4000 m710x	Sky
Edgeline EL8000 2U e910	Cascade
Edgeline EL8000 2U e910t	Cascade
R3K70C Supported Servers	**CPU** *
HPE ProLiant ML30 Gen10	Coffee
HPE ProLiant ML110 Gen10	Cascade
HPE ProLiant ML350 Gen10	Cascade

NVIDIA Quadro RTX 4000 Graphics Accelerator for HPE	
SKU	R1F95X | R1F95C
Performance	7.1TF SP
Memory Size	8 GB GDDR6
Memory Bandwidth	Up to 416 GB/s
Cores	2,304
System Interface	PCIe 3.0 x 16
Power	160W
Form Factor	4.4" H x 9.5" L, Single Slot

Supported Servers	
R1F95X Supported Servers	**CPU** *
HPE ProLiant XL190r Gen10	Cascade
R1F95C Supported Servers	**CPU** *
HPE ProLiant DL360 Gen10	Cascade
HPE ProLiant DL380 Gen10	Cascade
HPE ProLiant DL385 Gen10	Rome
HPE ProLiant ML110 Gen10	Cascade
HPE ProLiant ML350 Gen10	Cascade
HPE Synergy 480 Gen10	Cascade

Standard Features

HPE NVIDIA Quadro RTX 6000 Graphics Accelerator	
SKU	R0Z45X | R0Z45C
Performance	16.3TF SP
Memory Size	24 GB GDDR6
Memory Bandwidth	Up to 672 GB/s
Cores	4,608
System Interface	PCIe 3.0 x 16
Power	295W
Form Factor	4.4" H x 10.5" L, Dual Slot, Full Height

Supported Servers	
R0Z45X Supported Servers	**CPU** *
HPE Superdome Flex	Cascade
HPE Superdome Flex 280	Cascade
HPE ProLiant XL270d Gen10	Cascade
Edgeline EL8000 2U e910	Cascade
R0Z45C Supported Servers	**CPU** *
HPE ProLiant DL380 Gen10	Sky
HPE ProLiant DL380 Gen10	Cascade
HPE ProLiant DL385 Gen10	EPYC
HPE ProLiant DL385 Gen10	Rome
HPE ProLiant DL385 Gen10 Plus	Rome
HPE ProLiant DL580 Gen10	Cascade
HPE ProLiant ML350 Gen10	Cascade

NVIDIA Quadro RTX 8000 Graphics Accelerator for HPE	
SKU	R1F97X | R1F97C
Performance	16.3TF SP
Memory Size	48 GB GDDR6
Memory Bandwidth	Up to 672 GB/s
Cores	4,608
System Interface	PCIe 3.0 x 16
Power	295W
Form Factor	4.4" H x 10.5" L, Dual Slot, Full Height

Supported Servers	
R1F97X Supported Servers	**CPU** *
HPE ProLiant XL190r Gen10	Cascade
HPE ProLiant XL270d Gen10	Cascade
HPE Superdome Flex	Cascade
HPE Superdome Flex 280	Cooper
R1F97C Supported Servers	**CPU** *
HPE ProLiant DL380 Gen10	Cascade
HPE ProLiant DL385 Gen10	EPYC

Standard Features

R1F97C Supported Servers	CPU *
HPE ProLiant DL385 Gen10	Rome
HPE ProLiant DL385 Gen10 Plus	Rome
HPE ProLiant DL580 Gen10	Cascade
HPE ProLiant ML350 Gen10	Cascade
HPE Synergy 480 Gen10	Cascade

NVIDIA Quadro RTX x16 2-way 2-slot NVLink Bridge for HPE	
SKU	R1F96X | R1F96C

Supported Servers	
R1F96X Supported Servers	**CPU** *
R1F96C Supported Servers	**CPU** *
HPE ProLiant ML350 Gen10	Cascade
HPE ProLiant ML350 Gen10	Cascade

NVIDIA Tesla T4 16GB Computational Accelerator for HPE	
SKU	R0W29X | R0W29C
Performance	8.1TF SP
Memory Size	16 GB GDDR6
Memory Bandwidth	Up to 320 GB/s
Cores	2.560
System Interface	PCIe 3.0 x 16
Power	70W
Form Factor	2.713” H x 6.65” L, Single Slot, Low Profile

Supported Servers	
R0W29X Supported Servers	**CPU** *
HPE ProLiant XL190r Gen10	Cascade
HPE ProLiant XL270d Gen10	Cascade
Edgeline EL1000 m510	Broad
Edgeline EL1000 m710x	Sky
Edgeline EL1000 V2 m750	Coffee
Edgeline EL4000 m510	Broad
Edgeline EL4000 m710x	Sky
Edgeline EL4000 V2 m750	Coffee
Edgeline EL8000 1U e910	Cascade
Edgeline EL8000 2U e910	Cascade
HPE Superdome Flex	Cascade
HPE Superdome Flex 280	Cooper
HPE Proliant XL290n Gen10 Plus	Icelake

Standard Features

R0W29X Supported Servers	CPU *
Edgeline EL8000 e920d	Icelake
Edgeline EL8000 e920t	Icelake
Edgeline EL8000 e920	Icelake
R0W29C Supported Servers	**CPU ***
HPE ProLiant DL325 Gen10	EPYC
HPE ProLiant DL325 Gen10	Rome
HPE ProLiant DL325 Gen10 Plus	Rome
HPE ProLiant DL360Gen10	Sky
HPE ProLiant DL360 Gen10	Cascade
HPE ProLiant DL360 Gen10 Plus	Icelake
HPE ProLiant DL380 Gen10	Sky
HPE ProLiant DL380 Gen10	Cascade
HPE ProLiant DL385 Gen10	EPYC
HPE ProLiant DL385 Gen10	Rome
HPE ProLiant DL385 Gen10 Plus	Rome
HPE ProLiant DL385 Gen10 Plus v2	Milan
HPE ProLiant DL560 Gen10	Cascade
HPE ProLiant ML350 Gen10	Cascade
HPE Synergy 480 Gen10	Cascade
HPE Synergy 480 Gen10 Plus P	Icelake
HPE Synergy 480 Gen10 Plus H	Icelake

Supported Servers	
is Q9U37A Supported Servers	**CPU ***
HPE ProLiant XL270d Gen10	Sky
HPE ProLiant XL270d Gen10	Cascade

NVIDIA M10 Quad GPU Module for HPE	
SKU	Q0J62X | Q0J62C
Memory Size	32GB GDDR5
Cores	2,560
System Interface	PCIe Gen3
Power	225W
Form Factor	4.4” H x 10.5” L, Dual Slot, Full Height

Supported Servers	
Q0J62X Supported Servers	**CPU ***
HPE ProLiant XL190r Gen10	Sky
HPE ProLiant XL190r Gen10	Cascade

Standard Features

Q0J62C Supported Servers	CPU *
HPE ProLiant DL380 Gen10	Sky
HPE ProLiant DL380 Gen10	Cascade
HPE ProLiant DL385 Gen10	EPYC
HPE ProLiant DL385 Gen10	Rome
HPE ProLiant ML350 Gen10	Sky
HPE ProLiant ML350 Gen10	Cascade

NVIDIA Tesla A100 PCIe 40GB Computational Accelerator for HPE	
SKU	R6B53A/R6B53C
Performance	9.7TF DP, 19.5TF SP, 156TF FP16
Memory Size	40GB HBM2
Memory Bandwidth	1555 GB/s
Multi-instance GPUs	Various instance sizes with up to 7MIGs @ 5GB
System Interface	PCIe Gen4
Power	250W
Form Factor	10.5"x1.37"x4.37", Full Height, Full Length

Supported Servers	
R6B53A Supported Servers	**CPU ***
HPE ProLiant XL270d Gen10	Cascade
HPE ProLiant XL645d Gen10 Plus	Rome
HPE ProLiant XL645d Gen10 Plus	Milan
HPE ProLiant XL675d Gen10 Plus	Rome
HPE ProLiant XL675d Gen10 Plus	Milan
Edgeline EL8000 2U e910	Cascade
Edgeline EL8000 2U e910t	Cascade
HPE Superdome Flex 280	Cooper
HPE Proliant XL290n Gen10 Plus	Icelake
Edgeline EL8000 e920d	Icelake
Edgeline EL8000 e920t	Icelake
HPE Superdome Flex	Cascade
R6B53C Supported Servers	**CPU ***
HPE ProLiant DL380 Gen10	Cascade
HPE ProLiant DL385 Gen10 Plus	Rome
HPE ProLiant DL385 Gen10 Plus v2	Milan
HPE ProLiant DL380 Gen10 Plus	Icelake
HPE Synergy 480 Gen10	Cascade

Standard Features

NVIDIA Ampere 2-way 2-slot NVLink Bridge for HPE	
NVIDIA Ampere 2-way 2-slot Bridge for HPE	R6V66A

Supported Servers		
R6V66A Supported Servers	**CPU** *	
HPE ProLiant DL380a Gen11	SPR EMR	See NVIDIA H100 80GB PCIe and NVIDIA H100 NVL PCie for details
HPE ProLiant DL385 Gen11	SPR EMR	See NVIDIA H100 80GB PCIe and NVIDIA H100 NVL PCie for details
HPE ProLiant XL645d Gen 10Plus	Rome	See HPE NVIDIA Tesla A100 PCIe 40GB Computational Accelerator for details
HPE ProLiant XL645d Gen 10Plus	Milan	See HPE NVIDIA Tesla A100 PCIe 40GB Computational Accelerator for details
HPE ProLiant XL675d Gen 10Plus	Rome	See HPE NVIDIA Tesla A100 PCIe 40GB Computational Accelerator for details
HPE ProLiant XL675d Gen 10Plus	Milan	See HPE NVIDIA Tesla A100 PCIe 40GB Computational Accelerator for details

Supported Servers	
R3V64A Supported Servers	**CPU**
HPE ProLiant XL675d Gen10 Plus	Rome
HPE ProLiant XL675d Gen10 Plus	Milan

Supported Servers	
R4W71A Supported Servers	**CPU**
HPE ProLiant XL675d Gen10 Plus	Rome
HPE ProLiant XL675d Gen10 Plus	Milan

Supported Servers	
R3V35A Supported Servers	**CPU**
HPE ProLiant XL645d Gen10 Plus	Rome
HPE ProLiant XL645d Gen10 Plus	Milan

Supported Servers	
R7E29A Supported Servers	**CPU**
HPE ProLiant XL645d Gen10 Plus	Rome
HPE ProLiant XL645d Gen10 Plus	Milan

Standard Features

Supported Servers	
R7B94A Supported Servers	**CPU**
HPE ProLiant XL675d Gen10 Plus	Rome
HPE ProLiant XL675d Gen10 Plus	Milan

NVIDIA A40 48GB Accelerator for HPE	
SKU	R7E31A/ R7E31C
Performance	37.4TF SP, 149.7TF FP16
Memory Size	48GB GDDR6
Memory Bandwidth	696 GB/s
Cores	10,752
System Interface	PCIe Gen4
Power	300W
Form Factor	4.4" H x 10.5" L, Dual Slot, Full Height, Full Length

Supported Servers	
R7E31A Supported Servers	**CPU** *
HPE ProLiant XL645d Gen10 Plus	Milan
HPE ProLiant XL675d Gen10 Plus	Milan
R7E31C Supported Servers	**CPU** *
HPE ProLiant DL380 Gen10	Cascade
HPE ProLiant DL380 Gen10 Plus	Icelake
HPE ProLiant DL580 Gen10	Cascade
HPE Synergy 480 Gen10	Cascade
HPE Synergy 480 Gen10 Plus E2	Icelake
HPE ProLiant DL385 Gen10 Plus V2	Milan

NVIDIA A40 48GB non-CEC Accelerator for HPE	
NVIDIA A40 48GB PCIe Non-CEC Accelerator for HPE	R9S37C
Performance	37.4TF SP, 149.7TF FP16
Memory Size	48GB GDDR6
Memory Bandwidth	696 GB/s
Cores	10,752
System Interface	PCIe Gen4
Power	300W
Form Factor	4.4" H x 10.5" L, Dual Slot, Full Height, Full Length

Standard Features

Supported Servers	
R9S37C Supported Servers	**CPU** *
HPE ProLiant XL645d Gen10 Plus	Milan
HPE ProLiant XL675d Gen10 Plus	Milan
HPE ProLiant DL380 Gen10	Cascade

R9S37C Supported Servers	**CPU** *
HPE ProLiant DL380 Gen10 Plus	Icelake
HPE ProLiant DL580 Gen10	Cascade
HPE Synergy 480 Gen10 E2	Cascade
HPE Synergy 480 Gen10 Plus E2	Icelake
HPE ProLiant DL385 Gen10 Plus V2	Milan
HPE Edgeline EL8000 e920d/e920t	Icelake
HPE Superdome Flex 280	Copper

NVIDIA A10 24GB PCIe GPU Module	
SKU	R7G40A/R7G40C
Performance	31TF SP, 125TF FP16
Memory Size	24GB GDDR6
Memory Bandwidth	600 GB/s
System Interface	PCIe Gen4
Power	150W
Form Factor	4.4" H x 10.5” L, Single Slot

Supported Servers	
R7G40A Supported Servers	**CPU** *
HPE ProLiant XL645d Gen10 Plus	Milan
HPE ProLiant XL675d Gen10 Plus	Milan

R7G40C Supported Servers	
HPE ProLiant DL345 Gen10 Plus	Milan
HPE ProLiant DL380 Gen10 Plus	Icelake
HPE Synergy 480 Gen10 Plus	Icelake

Standard Features

NVIDIA A10 24GB non-CEC PCIe Accelerator	
NVIDIA A10 24GB PCIe Non-CEC Accelerator for HPE	R9W59A/ R9W59C
Performance	31TF SP, 125TF FP16
Memory Size	24GB GDDR6
Memory Bandwidth	600 GB/s
System Interface	PCIe Gen4
Power	150W
Form Factor	4.4" H x 10.5" L, Single Slot

Supported Servers	
R9W59A Supported Servers	**CPU** *
HPE ProLiant XL645d Gen10 Plus	Milan
HPE ProLiant XL675d Gen10 Plus	Milan

Supported Servers	
R9W59C Supported Servers	**CPU** *
HPE DL345 Gen10 Plus	Milan
HPE ProLiant DL380 Gen10 Plus	Icelake
HPE SY480 Gen10 Plus E4	Icelake

NVIDIA A100 80GB non-CEC PCIe Accelerator for HPE	
SKU	R9P49A/ R9P49C
Performance	9.7TF DP, 19.5TF SP, 156TF FP16
Memory Size	80GB HBM2e
Memory Bandwidth	1935GB/s
Multi-instance GPUs	Various instance sizes with up to 7MIGs @ 10GB
System Interface	PCIe Gen4
Power	300W
Form Factor	10.5"x1.37"x4.37", Full Height, Full Length

Supported Servers	
R9P49A Supported Servers	**CPU** *
HPE ProLiant XL645d Gen10 Plus	Milan
HPE ProLiant XL675d Gen10 Plus	Milan
HPE Superdome Flex 280	Cooper
HPE ProLiant XL290n Gen10 Plus	Icelake
HPE ProLiant XL270d Gen10	Icelake
HPE Edgeline EL8000 e920d	Cascade
HPE Superdome Flex	Cascade
HPE Cray XD295v	Genoa

Standard Features

Supported Servers	
R9P49C Supported Servers	**CPU** *
HPE ProLiant DL380 Gen10 Plus	Icelake
HPE ProLiant DL380 Gen11	SPR, EMR
HPE ProLiant DL380a Gen11	SPR,EMR
R9P49C Supported Servers	**CPU** *
HPE ProLiant DL580 Gen10	Cascade
HPE ProLiant DL385 Gen10 Plus v2	Milan
HPE DL385 Gen11	Genoa

NVIDIA A2 16GB PCIe Non-CEC Accelerator	
NVIDIA A2 16GB PCIe Non-CEC Accelerator for HPE	R9H23C
Performance	FP32: 4.5TF, TF32: 9TF, BFLOAT 16:18TF, FP16: 18TF, INT8: 36 TOPS, INT4: 72 TOPS
Memory Size	16 GB GDDR6
Memory Bandwidth	200 GB/s
Multi-instance GPUs	2.560
System Interface	PCIe Gen4 x 8
Power	40-60W
Form Factor	Single Slot, Low Profile, HHHL

Supported Servers	
R9H23C Supported Servers	**CPU** *
HPE Alletra 4110 Storage Server	SPR,EMR
HPE Alletra 4120 Storage Server	SPR,EMR
HPE ProLiant DL325 Gen10 Plus v2	Milan
HPE ProLiant DL325 Gen11	Genoa
HPE ProLiant DL360 Gen10	Cascade
HPE ProLiant DL360 Gen10 Plus	Icelake
HPE ProLiant DL360 Gen11	SPR, EMR
HPE ProLiant DL380 Gen10	Cascade< <
HPE ProLiant DL380 Gen10 Plus	Icelake
HPE ProLiant DL385 Gen10 Plus v2	Milan
HPE Synergy 480 Gen10 Plus H	Icelake
HPE Synergy 480 Gen10 Plus P	Icelake
HPE Synergy 480 Gen10	Cascade

Standard Features

HPE Edgeline EL8000 e920/e920d/e920t	Icelake
HPE Apollo 4200 Gen10 Plus	Icelake
HPE ProLiant ML350 Gen10	Cascade

NVIDIA A16 64GB non-CEC PCIe Accelerator for HPE	
NVIDIA A16 64GB PCIe Non-CEC Accelerator for HPE	R8T26C
Performance	FP32 | TF32 | TF321 (TFLOPS): 4x 4.5 | 4x 9 | 4x 18 FP16 | FP161 (TFLOPS): 4x 17.9 | 4x 35.9 INT8 | INT81 (TOPS): 4x 35.9 | 4x 71.8
Memory Size	64 GB GDDR-6 (16 GB/GPU)
Memory Bandwidth	4x 200 GB/s
System Interface	PCIe Gen4 x16
Power	250W
Form Factor	10.5" Dual slot, Full Height, Full Length
Performance	FP32 | TF32 | TF321 (TFLOPS): 4x 4.5 | 4x 9 | 4x 18 FP16 | FP161 (TFLOPS): 4x 17.9 | 4x 35.9 INT8 | INT81 (TOPS): 4x 35.9 | 4x 71.8

Supported Servers	
R8T26C Supported Servers	**CPU** *
HPE ProLiant DL320 Gen11	SPR, EMR
HPE ProLiant DL380 Gen10	Cascade
HPE ProLiant DL380 Gen10 Plus	Icelake
HPE ProLiant DL380 Gen11	SPR, EMR
HPE ProLiant ML350 Gen11	SPR, EMR
HPE Synergy 480 Gen 10 Plus	Icelake
HPE ProLiant DL385 Gen10 Plus v2	Milan
HPE ProLiant DL365 Gen11	Genoa
HPE ProLiant DL385 Gen11	Genoa

NVIDIA A30 24GB non-CEC PCIe Accelerator	
NVIDIA A30 PCIe Non-CEC Accelerator for HPE	R9S38C
Performance	10.3TF SP, 5.2TF FP64
Memory Size	24GB HBM2
Memory Bandwidth	933 GB/s
System Interface	PCIe Gen4
Power	165W
Form Factor	10.5" Dual slot, Full Height, Full Length

Standard Features

Supported Servers	
R9S38C Supported Servers	**CPU** *
HPE Superdome Flex	Cascade
HPE Superdome Flex 280	Cooper
HPE ProLiant DL380 Gen10	Cascade
HPE ProLiant DL380 Gen11	SPR, EMR
HPE ProLiant DL380 Gen10 Plus	Icelake
HPE ProLiant DL385 Gen10 Plus v2	Milan
HPE XD295v Gen11	Genoa

NVIDIA H100 80GB PCIe Accelerator for HPE	
SKU	R9S41C/ R9S41A
Performance	26TF FP64, 51TF FP32, 1,513TF FP16**, 3,026 TF FP8**
Memory Size	80GB HBM2e
Memory Bandwidth	2TB/s
Multi-instance GPUs	Up to 7MIGs @ 10GB
System Interface	PCIe Gen5
Power	300-350W (configurable)
Form Factor	10.5"x1.37"x4.37", Full Height, Full Length

Supported Servers	
R9S41C Supported Servers	**CPU** *
HPE ProLiant DL380 Gen10 Plus	Icelake
HPE ProLiant DL380 Gen11	SPR, EMR
HPE ProLiant DL380a Gen11	SPR, EMR
HPE ProLiant DL560 Gen11	SPR, EMR
HPE ProLiant DL385 Gen11	Genoa

Supported Servers	
R9S41A Supported Servers	**CPU** *
HPE ProLiant XL295v Gen11	Genoa
HPE ProLiant XL645d Gen10 Plus	Milan
HPE ProLiant XL675d Gen10 Plus	Milan
HPE Superdome Flex	Cascade
HPE Superdome Flex 280	Cooper

Standard Features

NVIDIA H100 NVL 94GB PCIe Accelerator for HPE	
SKU	S2D86C/ S2D86A
Performance	34TF FP64, 34TF FP32, 1,917TF FP16, 3,958 TG FP8
Memory Size	94GB HBM3
Memory Bandwidth	3.94TB/s
Multi-instance GPUs	Up to 7MIGs @ 12GB
System Interface	PCIe Gen5
Power	400W
Form Factor	10.5"x1.37"x4.37", Full Height, Full Length

Supported Servers	
S2D86C Supported Servers	**CPU** *
HPE EL8000 e930t Gen11	SPR
HPE Compute Scale-up Server 3200	SPR
HPE ProLiant DL380 Gen10 Plus	ICX
HPE ProLiant DL380 Gen11	SPR,EMR
HPE ProLiant DL380a Gen11	SPR, EMR
HPE ProLiant DL385 Gen11	Genoa
HPE ProLiant DL560 Gen11	SPR, EMR
HPE Superdome Flex 280	CPX
HPE Superdome Flex	CLX
HPE XL295V Gen11	Genoa
HPE XL675D Gen 10 Plus	Milan

Supported Servers	
S2D86A Supported Servers	**CPU** *
HPE XL675D Gen 10 Plus	Milan

NVIDIA L4 24GB PCIe Accelerator for HPE	
NVIDIA L4 24GB PCIe Accelerator for HPE	S0K89C
Performance	30TF FP32, 242TF FP16, 485TF INT8 (with sparsity, specs are one-half lower without)
Memory Size	24GB GDDR6
Memory Bandwidth	300GB/s
System Interface	PCIe Gen4 x16
Power	72W (40W minimum)
Form Factor	Half-height, Half-length, Single-slot

Standard Features

Supported Servers	
S0K89C Supported Servers	**CPU** *
HPE Alletra 4110 Storage Server	SPR, EMR
HPE Alletra 4120 Storage Server	SPR, EMR
HPE Alletra 4140 Storage Server	SPR, EMR
HPE Apollo 4200 Gen10 Plus	ICX
HPE EL8000 e920, e920d, e920t Gen 10 Plus	ICX
HPE EL8000 930t Gen11	SPR
HPE ProLiant DL320 Gen11	SPR, EMR
HPE ProLiant DL360 Gen10 Plus	Icelake
HPE ProLiant DL360 Gen11	SPR, EMR
HPE ProLiant DL380 Gen10 Plus	Icelake
HPE ProLiant DL380 Gen11	SPR, EMR
HPE ProLiant DL380a Gen11	SPR, EMR
HPE ProLiant DL325 Gen11	Genoa
HPE ProLiant DL345 Gen11	Genoa
HPE ProLiant DL365 Gen11	Genoa
HPE ProLiant DL385 Gen11	Genoa
HPE ProLiant ML110 Gen11	SPR, EMR
HPE ProLiant ML350 Gen11	SPR, EMR
HPE Superdome Flex	Cascade
HPE Superdome Flex 280	Cooper

NVIDIA L40 48GB PCIe Accelerator for HPE	
NVIDIA L40 48GB PCIe Accelerator for HPE	S0K90C
Performance	90TF FP32, FP8 Tensor core TFLOPS 724 (with sparsity)
Memory Size	48GB GDDR6
Memory Bandwidth	864GB/s
System Interface	PCIe Gen4 x16
Power	300W
Form Factor	4.4”H x 10.5”L dual-slot

Standard Features

Supported Servers	
S0K90C Supported Servers	**CPU** *
HPE ProLiant DL320 Gen11	SPR, EMR
HPE ProLiant DL380 Gen10 Plus	Icelake
HPE ProLiant DL380 Gen11	SPR, EMR
HPE ProLiant DL380a Gen11	SPR, EMR
HPE ProLiant DL385 Gen11	Genoa
HPE ProLiant DL560 Gen11	SPR
HPE ProLiant ML350 Gen11	SPR, EMR
HPE ProLiant XL675d Gen10 Plus	Milan
HPE Superdome 3200 Server	SPR
HPE Superdome Flex	Cascade
HPE Superdome Flex 280	Cooper

NVIDIA L40S 48GB PCIe Accelerator for HPE	
SKU	S2L70A/ S2L70C
Performance	90TF FP32, FP8 Tensor core TFLOPS 1,466 (with sparsity)
Memory Size	48GB GDDR6
Memory Bandwidth	864GB/s
System Interface	PCIe Gen4 x16
Power	350W
Form Factor	4.4”H x 10.5”L dual-slot

Supported Servers	
S2L70C Supported Servers	**CPU** *
HPE EL8000t 930t Gen11	SPR
HPE EL8000 e920d Gen 10 Plus	ICX
HPE Compute Scale up Server 3200	SPR
HPE ProLiant DL320 Gen11	SPR, EMR
HPE ProLiant DL380 Gen11	SPR, EMR
HPE ProLiant DL380a Gen11	SPR, EMR
HPE ProLiant DL385 Gen11	Genoa

Supported Servers	
S2L70A Supported Servers	**CPU** *
HPE Cray XD295v Gen11	Genoa
HPE Apollo 6500 XL675d Gen10 Plus	Milan
HPE Cray XD 2000 xd295v Gen11	Genoa

Standard Features

NVIDIA RTX 4000 Ada Accelerator for HPE	
NVIDIA RTX 4000 Ada Graphics Accelerator for HPE	S3T54C
Performance	26.7 TFLOPS single precision, 61.8 TFLOPS RT Core, 327.6 TFLOPS Tensor
Memory Size	20GB GDDR6
Memory Bandwidth	360GB/s
System Interface	PCIe Gen4 x16
Power	130W
Form Factor	4.4"H x 9.5"L single-slot

Supported Servers	
S3T54C Supported Servers	**CPU** *
HPE ProLiant DL380 Gen11	SPR, EMR
HPE ProLiant ML350 Gen11	SPR, EMR
HPE ProLiant ML110 Gen11	SPR, EMR

Notes:

- CPU Type
  - Sky: 1st Gen Intel Xeon Scalable Processor
  - Cascade: 2nd Gen Intel Xeon Scalable Processor
  - Cooper: 3rd Gen Intel Xeon Scalable Processor
  - Icelake: 3rd Gen Intel Xeon Scalable Processor
  - SPR (Sapphire Rapids): 4th Gen Intel Xeon Scalable Processor
  - EMR (Emerald Rapids) 5th Gen Intel Xeon Scalable Processor
  - Coffee: 9th Gen Intel Core i3 Processor
  - Broad: 5th Gen Intel Xeon D Processor
  - EPYC: 1st Gen AMD EPYC Processor
  - Rome: 2nd Gen AMD EPYC Processor
  - Milan: 3rd Gen AMD EPYC Processor
  - Genoa: 4th Gen AMD EPYC Processor
  - Trento: AMD Processor

Service and Support

Service and Support

If this is a qualified option, it is covered under the HPE Support Service(s) applied to the HPE ProLiant Server. Please check HPE ProLiant Server documentation for more details on the services for this option.

Warranty and Support Services

Warranty and Support Services will extend to include HPE options configured with your server or storage device. The price of support service is not impacted by configuration details. HPE sourced options that are compatible with your product will be covered under your server support at the same level of coverage allowing you to upgrade freely. Installation for HPE options is available as needed. To keep support costs low for everyone, some high value options will require additional support. Additional support is only required on select high value workload accelerators, fibre switches, InfiniBand and UPS batteries over 12KVA.

HPE Services - Service and Support

Get the most from your HPE Products. Get the expertise you need at every step of your IT journey with **HPE Services Services**. We help you lower your risks and overall costs using automation and methodologies that have been tested and refined by HPE experts through thousands of deployments globally. HPE Services **Advisory Services**, focus on your business outcomes and goals, partnering with you to design your transformation and build a roadmap tuned to your unique challenges. Our **Operational Services** can be leveraged to speed up time-to-production, boost performance and accelerate your business. HPE Services specializes in flawless and on-time implementation, on-budget execution, and creative configurations that get the most out of software and hardware alike.

Consume IT on your terms

HPE GreenLake brings the cloud experience directly to your apps and data wherever they are—the edge, colocations, or your data center. It delivers cloud services for on-premises IT infrastructure specifically tailored to your most demanding workloads. With a pay-per-use, scalable, point-and-click self-service experience that is managed for you, HPE GreenLake accelerates digital transformation in a distributed, edge-to-cloud world.

- Get faster time to market
- Save on TCO, align costs to business
- Scale quickly, meet unpredictable demand
- Simplify IT operations across your data centers and clouds

Managed services to run your IT operations

HPE GreenLake Management Services provides 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.

Recommended Services

HPE Tech Care Service.

HPE Tech Care Service is the new operational service experience for HPE products. Tech Care 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 has been reimagined from the ground up to support 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 Complete Care Service

HPE Complete Care Service 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 Services 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/completecare

Protect your business beyond warranty with HPE Support Services

HPE Services provides a comprehensive portfolio including Advisory and Transformational, Professional, and Operational Services to help accelerate your digital transformation. From the onset of your transformation journey, Advisory and Transformational Services focus on designing the transformation and creating a solution roadmap. Professional Services specializes in creative configurations with flawless and on-time implementation, and on-budget execution. Finally, operational services provide innovative new approaches like Flexible Capacity and Complete Care, to keep your business at peak performance. HPE is ready to bring together all the pieces of the puzzle for you, with an eye on the future, and make the complex simple.

Parts and Materials

Hewlett Packard Enterprise will provide HPE-supported replacement parts and materials necessary to maintain the covered hardware product in operating condition, including parts and materials for available and recommended engineering improvements.

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 QuickSpecs, or the technical product data sheet will not be provided, repaired, or replaced as part of these services.

The defective media retention service feature option applies only to Disk or eligible SSD/Flash Drives replaced by Hewlett Packard Enterprise due to malfunction.

HPE Support Center

The HPE Support Center is a personalized online support portal with access to information, tools and experts to support HPE business products. Submit support cases online, chat with HPE experts, access support resources or collaborate with peers.

Learn more: **http://www.hpe.com/support/hpesc**

The HPE's Support Center Mobile App* allows you to resolve issues yourself or quickly connect to an agent for live support. Now, you can get access to personalized IT support anywhere, anytime.

HPE Insight Remote Support and HPE Support Center are available at no additional cost with a HPE warranty, HPE Support Service or HPE contractual support agreement.

Notes: *HPE Support Center Mobile App is subject to local availability.

For more information

Visit the Hewlett Packard Enterprise Service and Support **website.**

Summary of Changes

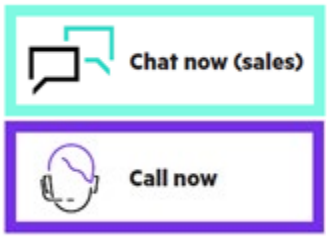
Date	Version History	Action	Description of Change
01-Jul-2024	Version 62	Changed	Overview and Standard Features sections were updated Added RTX 4000 Ada and sustaining quals
15-Apr-2024	Version 61	Changed	Overview and Standard Features sections were updated
04-Mar-2024	Version 60	Changed	Added sustaining quals and H100 NVL Overview and Standard Features sections were updated.
19-Feb-2024	Version 59	Changed	Updates and fixes
05-Feb-2024	Version 58	Changed	Removed Qualcomm AI100 PCIe, Intel Data Center GPU Flex 140 and 170. Standard Features section was updated
08-Jan-2024	Version 57	Changed	Add Qualcomm AI100 PCIe, Intel Data Center GPU Flex 140 and 170; Removed NVIDIA H100 NVL, added January sustaining quals
06-Nov-2023	Version 56	Changed	Added L40S. Overview and Standard Features sections were updated.
18-Sep-2023	Version 55	Changed	Added L40S. Overview and Standard Features sections were updated Added sustaining quals for Aug and September
10-Jul-2023	Version 54	Changed	Added links for supported OS and removed from tables
05-Jun-2023	Version 53	Changed	Added sustaining quals, adding missing NVLink bridge quals Standard Features section was updated.
03-Apr-2023	Version 52	Changed	Added L4 and L40, removed note on launched combos. Overview and Standard Features sections were updated.
06-Mar-2023	Version 51	Changed	Removed notes on launched combos. Added 2 A100, 2 H100, 1 A16. Standard Features section was updated.
06-Feb-2023	Version 50	Changed	Added H100
10-Jan-2023	Version 49	Changed	Added Gen11 quotable but not orderable systems
21-Nov-2022	Version 48	Changed	Added numerous ESXi qualifications, added back missing A30
01-Aug-2022	Version 47	Changed	Overview and Standard Features sections were updated.
05-Jul-2022	Version 46	Changed	Added A10 non-CEC, A30 non-CEC, Added A16 non-CEC, Updated DL385 Gen10 Plus with Milan processors to Gen10 Plus v2 Overview and Standard Features sections were updated.
20-Jun-2022	Version 45	Changed	Added A2 non-CEC, sustaining A40 non-CEC and sustaining A100 80GB non-CEC Overview and Standard Features sections were updated
02-May-2022	Version 44	Changed	Overview and Standard Features sections were updated. Added compatibility. Added A100 80GB non CEC PCIe and A40 48GB non-CEC.. Removed OBS V100/V100S PCIe SKUs. Removed A2 and A16.
11-Oct-2021	Version 43	Changed	Service and Support section was updated
07-Sep-2021	Version 42	Changed	Standard Features section was updated Obsolete SKUs were removed
02-Aug-2021	Version 41	Changed	Added NVIDIA A10 C-SKU Overview, Standard Features and Service and Support sections were updated.
06-Jul-2021	Version 40	Changed	Overview and Standard Features sections were updated.
07-Jun-2021	Version 39	Changed	Standard Features section was updated
04-May-2021	Version 38	Changed	Standard Features section was updated.
12-Apr-2021	Version 37	Changed	Overview and Standard Features sections were updated.
06-Apr-2021	Version 36	Changed	Overview and Standard Features sections were updated.
01-Feb-2021	Version 35	Changed	Overview and Standard Features sections were updated. Added A100 HGX Products
07-Dec-2020	Version 34	Changed	Add NVLink Bridge and A100 HGX products
05-Oct-2020	Version 33	Changed	Changed Naming, Added A100 New Product and Updated server language to be inclusive of Pan-HPE support
06-Apr-2020	Version 32	Changed	Overview and Standard Features sections were updated Obsolete SKUs were removed

Summary of Changes

Date	Version History	Action	Description of Change
02-Dec-2019	Version 31	Changed	Overview and Standard Features sections were updated Obsolete SKUs were removed
03-Jun-2019	Version 30	Changed	Models and Standard Features sections were updated
02-Apr-2019	Version 29	Changed	Overview and Standard Features sections were updated. Obsolete SKUs were removed.
04-Feb-2019	Version 28	Changed	Overview and Standard Features sections were updated
03-Dec-2018	Version 27	Changed	Standard Features section was updated
15-Oct-2018	Version 26	Changed	Overview and Standard Features sections were updated.
01-Oct-2018	Version 25	Changed	Overview, Additional Options and Service and Support sections were updated. Added GV100 Bridge Kit; corrected wrong PNs
04-Jun-2018	Version 24	Changed	Changes made throughout document; adding V100 FHHL card
07-May-2018	Version 23	Changed	Add HPE NVIDIA Tesla V100 PCIE 32GB Computational Accelerator / HPE NVIDIA Tesla V100 SXM2 32GB Computational Accelerator.
02-Apr-2018	Version 22	Changed	Updates throughout document; added GV100
04-Dec-2017	Version 21	Changed	New modules added
16-Oct-2017	Version 20	Changed	Update verbiage in the Standard
25-Sep-2017	Version 19	Changed	Update verbiage in the Standard Features Sections
11-Jul-2017	Version 18	Changed	New models were added and updates throughout the whole document
05-Jun-2017	Version 17	Changed	Remove obsolete info and SKUs and update the recent info
08-May-2017	Version 16	Changed	New models were added and updates throughout the whole document
28-Nov-2016	Version 15	Changed	Updates throughout the whole document
26-Sep-2016	Version 14	Changed	Added new SKUs to QS
06-Jun -2016	Version 13	Changed	Add The new information to the QS and remove obsolete SKU´s
31-Mar-2016	Version 12	Changed	Update all the sections and general info throughout the QuickSpecs
01-Dec-2015	Version 11	Changed	Update the Standard Features and the technical Specifications section
17-Aug-2015	Version 10	Changed	Update several Overview and technical specifications.
09-Feb-2015	Version 9	Changed	Update several Overview and technical specifications.
01-Dec-2014	Version 8	Changed	Revised wording and Technical Specifications
09-Sep-2014	Version 7	Changed	Changes made throughout the QuickSpecs.
05-Jun-2014	Version 6	Changed	High Performance Clusters and Thermal Solutions were revised
31-Mar-2014	Version 5	Changed	NVIDIA Tesla K40C 12 GB Computational Accelerator and NVIDIA Quadro K2000 PCIe Graphics Adapter were added
18-Feb-2014	Version 4	Changed	Changes made throughout the QuickSpecs
09-Dec-2013	Version 3	Changed	NVIDIA Tesla K10 Rev B Dual GPU Module and NVIDIA Tesla K40 12 GB Module were added.
20-Sep-2013	Version 2	Changed	Changes made in the following Sections Standard Features Optional Features Technical Specifications
10-Sep-2013	Version 1	New	New QuickSpecs

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