

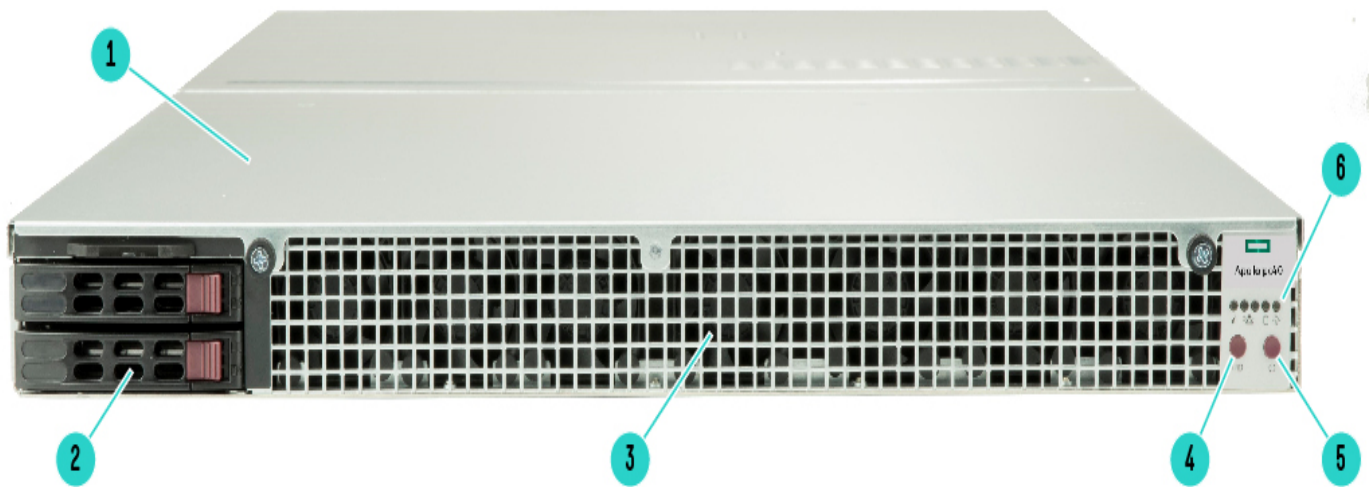
Overview

HPE Apollo pc40 Server

The HPE Apollo pc40 Server features up to four NVIDIA® Tesla® PCIe graphic processing units (GPUs) to accelerate mixed-application, GPU-accelerated HPC workloads. The PCIe form factor can allow for a greater selection of accelerators and GPUs than alternate form factors.

Optimize the server for required workloads by choosing from the available CPUs in the Intel® Xeon® Processor Scalable Family, up to twelve 2666 MT/s DDR4 DIMMs, optional network adapters, and up to two SFF hard drives or solid state drives.

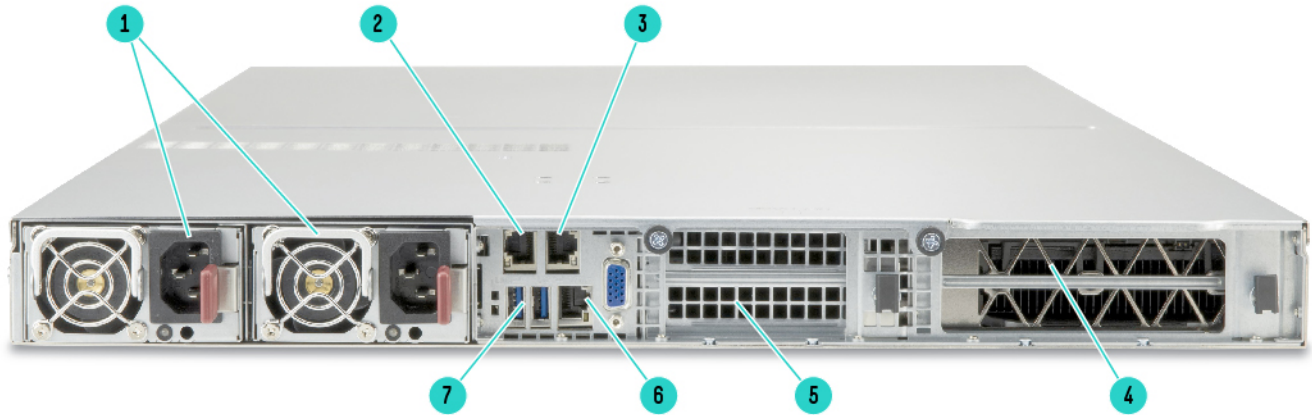
Fully integrated and factory tested clusters are delivered with a complete cluster management software stack to simplify deployment and management, and can be custom configured for perfect right-sizing.



Front View

| Item | Description |
|------|--------------------------------------|
| 1. | HPE Apollo pc40 Chassis (1U) |
| 2. | 2 SFF Hot-swap SATA Drive Bays |
| 3. | Internal Fans |
| 4. | Unit Identification (UID) LED/button |
| 5. | Power Button |
| 6. | Status LEDs |

Overview

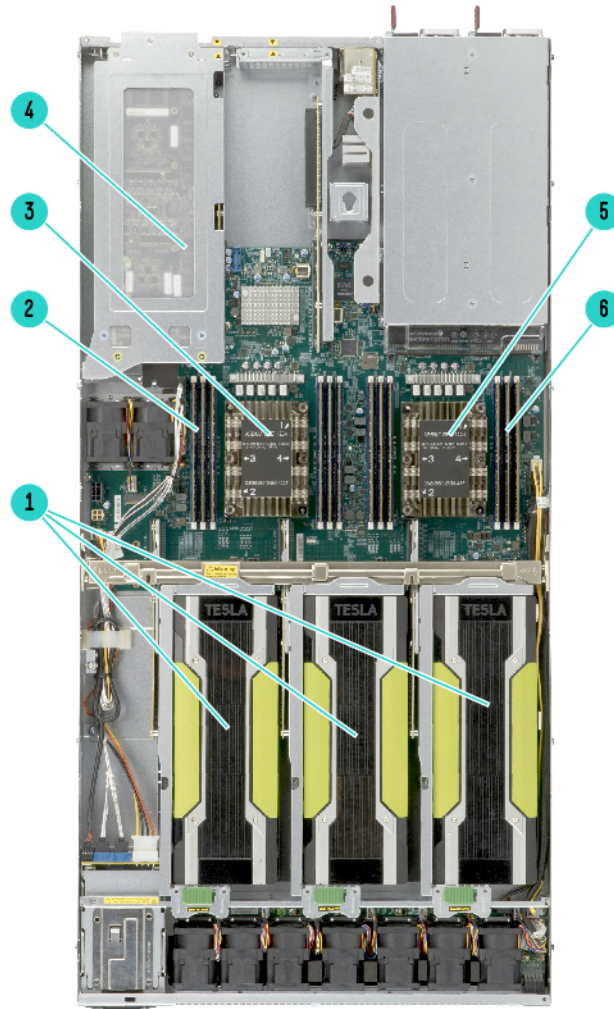


Rear View

Item Description

1. Two 2000W Titanium level power supplies
2. Embedded 10 Gb NIC 1
3. Embedded 10 Gb NIC 2
4. One double wide GPU or two full-height PCIe Gen3 x16 slots
5. Two low profile PCIe Gen3 x16 slots
6. Dedicated IPMI LAN port
7. Two USB 3.0 Connectors

Overview



Top View

Item Description

1. Full-height/Full-length PCIe 3 x16 slots for GPUs
2. DIMMs for processor 1
3. Processor 1
4. Full-height/Full-length PCIe Gen3 x16 slot for GPU or two PCIe Gen3 x16 slots
5. Processor 2
6. DIMMs for processor 2

Standard Features

Intel® Xeon® Processor Scalable Family Processors (Please follow product offering to fill out processor SKU)

| Model | CPU frequency | Cores | L3 Cache | Power | UPI | DDR4 MT/s |
|----------------------------|---------------|-------|----------|-------|-----------|-----------|
| Intel® Xeon® Platinum 8176 | 2.1 GHz | 28 | 38.50 MB | 165W | 10.4 GT/s | 2666 |
| Intel® Xeon® Platinum 8170 | 2.1 GHz | 26 | 35.75 MB | 165W | 10.4 GT/s | 2666 |
| Intel® Xeon® Platinum 8164 | 2.0 GHz | 26 | 35.75 MB | 150W | 10.4 GT/s | 2666 |
| Intel® Xeon® Platinum 8160 | 2.1 GHz | 24 | 33.00 MB | 150W | 10.4 GT/s | 2666 |
| Intel® Xeon® Platinum 8158 | 3.0 GHz | 12 | 24.75 MB | 150W | 10.4 GT/s | 2666 |
| Intel® Xeon® Platinum 8156 | 3.6 GHz | 4 | 16.50 MB | 105W | 10.4 GT/s | 2666 |
| Intel® Xeon® Platinum 8153 | 2.0 GHz | 16 | 22.00 MB | 125W | 10.4 GT/s | 2666 |
| Intel® Xeon® Gold 6152 | 2.1 GHz | 22 | 30.25 MB | 140W | 10.4 GT/s | 2666 |
| Intel® Xeon® Gold 6150 | 2.7 GHz | 18 | 24.75 MB | 165W | 10.4 GT/s | 2666 |
| Intel® Xeon® Gold 6148 | 2.4 GHz | 20 | 27.50 MB | 105W | 10.4 GT/s | 2666 |
| Intel® Xeon® Gold 6142 | 2.6 GHz | 16 | 22.00 MB | 105W | 10.4 GT/s | 2666 |
| Intel® Xeon® Gold 6140 | 2.3 GHz | 18 | 24.75 MB | 65W | 10.4 GT/s | 2666 |
| Intel® Xeon® Gold 6138 | 2.0 GHz | 20 | 27.50 MB | 135W | 10.4 GT/s | 2666 |
| Intel® Xeon® Gold 6136 | 3.0 GHz | 12 | 24.75 MB | 90W | 10.4 GT/s | 2666 |
| Intel® Xeon® Gold 6134 | 3.2 GHz | 8 | 24.75 MB | 135W | 10.4 GT/s | 2666 |
| Intel® Xeon® Gold 6132 | 2.6 GHz | 14 | 19.25 MB | 85W | 10.4 GT/s | 2666 |
| Intel® Xeon® Gold 6130 | 2.1 GHz | 16 | 22.00 MB | 85W | 10.4 GT/s | 2666 |
| Intel® Xeon® Gold 6128 | 3.4 GHz | 6 | 19.25 MB | 85W | 10.4 GT/s | 2666 |
| Intel® Xeon® Gold 6126 | 2.6 GHz | 12 | 19.25 MB | 85W | 10.4 GT/s | 2666 |
| Intel® Xeon® Gold 5122 | 3.6 GHz | 4 | 16.50 MB | 85W | 10.4 GT/s | 2666 |
| Intel® Xeon® Gold 5120 | 2.2 GHz | 14 | 19.25 MB | 85W | 10.4 GT/s | 2666 |
| Intel® Xeon® Gold 5118 | 2.3 GHz | 12 | 16.50 MB | 85W | 10.4 GT/s | 2666 |
| Intel® Xeon® Gold 5115 | 2.4 GHz | 10 | 13.75 MB | 85W | 10.4 GT/s | 2666 |
| Intel® Xeon® Silver 4116 | 2.1 GHz | 12 | 16.50 MB | 55W | 9.6 GT/s | 2666 |
| Intel® Xeon® Silver 4114 | 2.2 GHz | 10 | 13.75 MB | 85W | 9.6 GT/s | 2666 |
| Intel® Xeon® Silver 4112 | 2.6 GHz | 4 | 8.25 MB | 90W | 9.6 GT/s | 2666 |
| Intel® Xeon® Silver 4110 | 2.1 GHz | 8 | 11.00 MB | 135W | 9.6 GT/s | 2666 |
| Intel® Xeon® Silver 4108 | 1.8 GHz | 8 | 11.00 MB | 65W | 9.6 GT/s | 2666 |
| Intel® Xeon® Bronze 3106 | 1.7 GHz | 8 | 11.00 MB | 105W | 9.6 GT/s | 2666 |
| Intel® Xeon® Bronze 3104 | 1.7 GHz | 6 | 11.00MB | 105W | 9.6 GT/s | 2666 |

Chipset Intel® C620 Series Chipset

NOTE: For more information regarding Intel® chipsets, please see the following URL:
<http://www.intel.com/products/server/chipsets/>

Memory Type DDR4 Load Reduced (LRDIMM), or Registered (RDIMM)
 DIMM Slots Available 12 DIMM slots available
 Maximum (LRDIMM) 1.5 TB (12x 128 GB)

NOTE: LRDIMM and RDIMM are distinct memory technologies and cannot be mixed within a server.

Network Controller Ethernet Options

HPE Ethernet 10Gb 2-port 535T Adapter
 HPE Ethernet 10Gb 2-port 571SFP+ Adapter
 HPE Ethernet 10Gb 2-port 561T Adapter

InfiniBand Options

Standard Features

HPE IB EDR/EN 100Gb 1-port 840QSFP28 Adapter
 HPE IB EDR/EN 100Gb 2-port 840QSFP28 Adapter
 HPE 100Gb 1-port OP101 QSFP28 x16 OPA Adapter

| | | |
|---|--|---|
| Maximum Internal Storage | HPE 1TB SATA 7.2K SFF RW 512n DS HDD | 2x 1 TB |
| | HPE 2TB SATA 7.2K SFF RW 512e DS HDD | 2x 2 TB |
| | HPE 240GB SATA MU SFF RW DS SSD | 2x 240 GB |
| | HPE 480GB SATA MU SFF RW DS SSD | 2x 480 GB |
| | HPE 960GB SATA MU SFF RW DS SSD | 2x 960 GB |
| | HPE 1.92TB SATA MU SFF RW DS SSD | 2x 1.92 TB |
| | HPE 3.84TB SATA RI SFF ST DS SSD | 2x 3.8 TB |
| Interfaces | USB Ports | 2 USB 3.0 (external) |
| | Remote Management Port | Dedicated IMPI port |
| | Status LED | 1 |
| | Power | 1 |
| | UID | 1 |
| Industry Standard Compliance | ACPI 2.0b Compliant | |
| | PCIe 3.0 Compliant | |
| | PXE Support | |
| | USB 1.1,2.0 and 3.0 Compliant | |
| Power Specifications | To review typical system power ratings use the HPE Power Advisor which is available via the online tool located at URL: https://www.hpe.com/us/en/integrated-systems/rack-power-cooling.html#Portfolio NOTE: Power Specification and Technical Content for supported power supplies can be found at https://www.hpe.com/h20195/v2/gethtml.aspx?docname=c04111541 | |
| Operating Systems and Virtualization Software Support for HPE Apollo Servers | Red Hat Enterprise Linux (RHEL) | |
| | SUSE Linux Enterprise Server (SLES) | |
| | CentOS | |
| Graphics | Integrated video standard | |
| Form Factor | The Apollo pc40 is a 1U server | |
| Embedded Management | UEFI | Configure and boot your servers securely with industry standard Unified Extensible Firmware Interface (UEFI). Learn more at https://www.hpe.com/us/en/product-catalog/detail/pip.6935826.html |
| | Intelligent Provisioning | Provision servers by discovering and deploying 1 to few servers with Intelligent Provisioning. Learn more at https://www.hpe.com/us/en/product-catalog/detail/pip.5219984.html |
| Security | Power-on password | |
| | Keyboard password | |
| | Serial interface control | |
| | Administrator's password | |

Standard Features

Warranty

This product is covered by a global limited warranty and supported by Hewlett Packard Enterprise Services and a worldwide network of Hewlett Packard Enterprise Authorized Channel Partners (may vary by region). Hardware diagnostic support and repair is available for one year from date of purchase. Support for software and initial setup is available for 90 days from date of purchase. Enhancements to warranty services are available through HPE Pointnext operational services or customized service agreements. Hard drives have either a one year or three year warranty.

NOTE: Server Warranty includes 3 year Parts, 3 year Labor, 3-year on-site support with next business day response. Warranty repairs may be accomplished through the use of Customer Self Repair (CSR) parts. These parts fall into two categories: 1) Mandatory CSR parts are designed for easy replacement. A travel and labor charge will result when customers decline to replace a Mandatory CSR part; 2) Optional CSR parts are also designed for easy replacement but may involve added complexity. Customers may choose to have Hewlett Packard Enterprise replace Optional CSR parts at no charge. Additional information regarding worldwide limited warranty and technical support is available at: <http://h18004.www1.hpe.com/products/servers/platforms/warranty/index.html>

NOTE: In Asia Pacific, Japan and China, Server Warranty includes 3 years Parts, 3 year Labor, 3-year Onsite support with next business day response

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. See the specific high value options that require additional support [HERE](#)

Additional Features

High Performance Clusters HPE Insight Cluster Management Utility

HPE Insight Cluster Management Utility (CMU) is a Hewlett Packard Enterprise-licensed and Hewlett Packard Enterprise-supported suite of tools that are used for lifecycle management of hyperscale clusters of Linux systems. CMU includes software for the centralized provisioning, management and monitoring of nodes. CMU makes the administration of clusters user friendly, efficient, and effective.

<http://www.hpe.com/go/cmu>

Service & Support

Service and Support **Protect your business beyond warranty with HPE Support Services**

HPE Pointnext 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 provides innovative new approaches like Flexible Capacity and Datacenter 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.

Optimized Recommendation

HPE Proactive Care* with 24x7 coverage, three year Support Service

HPE Proactive Care gives customers an enhanced call experience. When your products are connected to HPE, Proactive Care helps prevent problems and maintains IT stability by utilizing personalized proactive reports with recommendations and advice. This Service combines three years proactive reporting and advice with our 24x7 coverage, four hour hardware response time when there is a problem. This service also includes collaborative software support for Independent Software Vendors (ISVs), (Red Hat, VMWare, Microsoft, etc.) running on your HPE servers.

<https://www.hpe.com/h20195/v2/GetPDF.aspx/4AA3-8855ENW.pdf>

NOTE: *HPE Proactive Care and HPE Proactive Care Advanced require that the customer connect their devices to make the most of these services and receive all the deliverables.

Standard Recommendation

HPE Foundation Care 24x7, three-year Support Service

HPE Foundation Care 24x7 gives you access to HPE 24 hours a day, seven days a week for assistance on resolving issues. This service includes need based Hardware onsite response within four hours. In addition, collaborative software support is included in this service that provides troubleshooting assistance on industry leading software running on your HPE server. Simplify your support experience and make HPE your first call to help resolve hardware or software problems.

<https://www.hpe.com/h20195/V2/GetDocument.aspx?docname=4AA4-8876ENW&cc=us&lc=en>

Basic Recommendation

HPE Foundation Care NBD, three-year Support Service

HPE Foundation Care Next Business Day connects you to HPE during business hours for assistance on resolving issues – This service features need based next business day hardware onsite response and software call back within two hours. In addition, Collaborative software support and provides troubleshooting assistance on industry leading software running on your HPE server. Simplify your support experience and make HPE your first call to help resolve hardware or software problems.

<https://www.hpe.com/h20195/V2/GetDocument.aspx?docname=4AA4-8876ENW&cc=us&lc=en>

Service & Support

Other Related Services

HPE Server Hardware Installation

Provides for the basic hardware installation of HPE branded servers, storage devices and networking options to assist you in bringing your new hardware into operation in a timely and professional manner.

<https://www.hpe.com/h20195/V2/GetPDF.aspx/5981-9356EN.pdf>

HPE Installation and Startup Service

Provides for the installation of your HPE hardware according to product specifications including options. The HPE service delivery technician will connect the product to a LAN as appropriate and enable remote support to allow for automatic case creation for hardware failures. Installation and start up services also includes the installation of one supported operating system type (Windows® or Linux).

HPE Factory Express for Servers and storage

HPE Factory Express offers configuration, customization, integration and deployment services for HPE servers and storage products. Customers can choose how their factory solutions are built, tested, integrated, shipped and deployed.

Factory Express offers service packages for simple configuration, racking, installation, complex configuration and design services as well as individual factory services, such as image loading, asset tagging, and custom packaging. HPE products supported through Factory Express include a wide array of servers and storage: HPE Integrity, HPE ProLiant, HPE Apollo, HPE ProLiant Server Blades, HPE BladeSystem, HPE 9000 servers as well as the MSAXxx3PAR suite, XP, rackable tape libraries and configurable network switches.

HPE Technology Services Support Credits

Offer flexible services and technical skills to meet your changing IT demands. With a menu of service that is tailored to suit your needs, you get additional resources and specialist skills to help you maintain peak performance of your IT. Offered as annual credits, you can plan your budgets while proactively responding to your dynamic business.

HPE Datacenter Care service

HPE Datacenter Care helps improve IT stability and security, increase the value of IT, and enable agility and innovation. It is a structured framework of repeatable, tested, and globally available services “building blocks.” You can deploy, operate, and evolve your datacenter wherever you are on your IT journey. With HPE Datacenter Care, you benefit from a personalized relationship with HPE via a single point of accountability for HPE and others’ products. For more information, visit <http://www.hpe.com/services/datacentercare>

HPE Flexibly Capacity

With Flexible Capacity, you get the speed, scalability, and economics of the public cloud in the privacy of your data center. Gain the advantages of the public cloud—consumption-based payment, rapid scalability without worrying about capacity constraints. Reduce the “heavy lifting” needed to operate a data center. And retain the advantages that IT provides the business (i.e., control, security). Deliver the right user experience, choose the right technology for the business, manage privacy and compliance, and manage the cost of IT. And, you have the option to use the public cloud when needed.

DC for Hyperscale

Datacenter Care for Hyperscale is available for Service Providers and HPC customers who use a scale out approach to computing with a high volume homogenous infrastructure and resilient architecture can take advantage of this environment support tailored to their operating model.

HPE Education Services

Keep your IT staff trained making sure they have the right skills to deliver on your business outcomes. Book on a class today and learn how to get the most from your technology investment.

<http://www.hpe.com/ww/learn>

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>

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 personalize IT support anywhere, anytime.

HPE Insight Remote Support and HPE Support Center are available at no additional cost with a HPE

Service & Support

warranty, HPE Support Service or HPE contractual support agreement.

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

Parts and Materials **Parts and Materials**

HPE 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 HPE due to malfunction.

Options

NOTE: Included options are covered under the HPE Service Contract applied to the HPE Server. No separate HPE support services need to be purchased.

For more information

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

Configuration Information

Step 1: Base Configuration (Choose one of the CTO Models below)

| | | |
|----------------------|---|--------|
| HPE CTO Model | HPE Apollo pc40 2SFF 4GPU Configure-to-order Server | Q5S68A |
|----------------------|---|--------|

Step 2: Choose Required Options (only one from each category unless otherwise noted)

| | |
|---|--------|
| HPE Apollo 40 Intel® Xeon-Platinum 8176 (2.1GHz/28-core/165W) Processor Kit | Q5S81A |
| HPE Apollo 40 Intel® Xeon-Platinum 8170 (2.1GHz/26-core/165W) Processor Kit | Q5S82A |
| HPE Apollo 40 Intel® Xeon-Platinum 8164 (2.0GHz/26-core/150W) Processor Kit | Q5S83A |
| HPE Apollo 40 Intel® Xeon-Platinum 8160 (2.1GHz/24-core/150W) Processor Kit | Q5S84A |
| HPE Apollo 40 Intel® Xeon-Platinum 8158 (3.0GHz/12-core/150W) Processor Kit | Q5S86A |
| HPE Apollo 40 Intel® Xeon-Platinum 8156 (3.6GHz/4-core/105W) Processor Kit | Q5S87A |
| HPE Apollo 40 Intel® Xeon-Platinum 8153 (2.0GHz/16-core/125W) Processor Kit | Q5S85A |
| HPE Apollo 40 Intel® Xeon-Gold 6152 (2.1GHz/22-core/140W) Processor Kit | Q5S88A |
| HPE Apollo 40 Intel® Xeon-Gold 6150 (2.7GHz/18-core/165W) Processor Kit | Q5S89A |
| HPE Apollo 40 Intel® Xeon-Gold 6148 (2.4GHz/20-core/150W) Processor Kit | Q5S90A |
| HPE Apollo 40 Intel® Xeon-Gold 6142 (2.6GHz/16-core/150W) Processor Kit | Q5S91A |
| HPE Apollo 40 Intel® Xeon-Gold 6140 (2.3GHz/18-core/140W) Processor Kit | Q5S92A |
| HPE Apollo 40 Intel® Xeon-Gold 6138 (2.0GHz/20-core/125W) Processor Kit | Q5S93A |
| HPE Apollo 40 Intel® Xeon-Gold 6136 (3.0GHz/12-core/150W) Processor Kit | Q5S94A |
| HPE Apollo 40 Intel® Xeon-Gold 6134 (3.2GHz/8-core/130W) Processor Kit | Q5S95A |
| HPE Apollo 40 Intel® Xeon-Gold 6132 (2.6GHz/14-core/140W) Processor Kit | Q5S96A |
| HPE Apollo 40 Intel® Xeon-Gold 6130 (2.1GHz/16-core/125W) Processor Kit | Q5S97A |
| HPE Apollo 40 Intel® Xeon-Gold 6128 (3.4GHz/6-core/115W) Processor Kit | Q5S98A |
| HPE Apollo 40 Intel® Xeon-Gold 6126 (2.6GHz/12-core/125W) Processor Kit | Q5S99A |
| HPE Apollo 40 Intel® Xeon-Gold 5122 (3.6GHz/4-core/105W) Processor Kit | Q5T02A |
| HPE Apollo 40 Intel® Xeon-Gold 5120 (2.2GHz/14-core/105W) Processor Kit | Q5T00A |
| HPE Apollo 40 Intel® Xeon-Gold 5118 (2.3GHz/12-core/105W) Processor Kit | Q5T01A |
| HPE Apollo 40 Intel® Xeon-Gold 5115 (2.4GHz/10-core/85W) Processor Kit | Q5T03A |
| HPE Apollo 40 Intel® Xeon-Silver 4116 (2.1GHz/12-core/85W) Processor Kit | Q5T04A |
| HPE Apollo 40 Intel® Xeon-Silver 4114 (2.2GHz/10-core/85W) Processor Kit | Q5T05A |
| HPE Apollo 40 Intel® Xeon-Silver 4112 (2.6GHz/4-core/85W) Processor Kit | Q5T06A |
| HPE Apollo 40 Intel® Xeon-Silver 4110 (2.1GHz/8-core/85W) Processor Kit | Q5T07A |
| HPE Apollo 40 Intel® Xeon-Silver 4108 (1.8GHz/8-core/85W) Processor Kit | Q5T08A |
| HPE Apollo 40 Intel® Xeon-Bronze 3106 (1.7GHz/8-core/85W) Processor Kit | Q5T09A |
| HPE Apollo 40 Intel® Xeon-Bronze 3104 (1.7GHz/6-core/85W) Processor Kit | Q5T10A |

NOTE: LRDIMM and RDIMM are distinct memory technologies and cannot be mixed within a server.

NOTE: Consider selecting 16GB memory DIMMs for Apollo pc40 with 4 NVIDIA GPUs. NVidia design guidelines state a requirement for at least 64GB main memory per CPU to ensure optimal application performance.

NOTE: Depending on the memory configuration and processor model, the memory speed may run at 2666MHz, 2400MHz, 2133MHz, 1866MHz, or 1600MHz. Please see Memory Population Table or the Online Memory Configuration Tool

at: <http://h22195.www2.hpe.com/MemoryTool/Home/Legal>

| | | |
|-------------------|---|--------|
| HPE Memory | HPE 8GB Single Rank x4 DDR4-2666 Registered Memory Kit | Q7D79A |
| | HPE 8GB Dual Rank x8 DDR4-2666 Registered Memory Kit | Q7D81A |
| | HPE SGI 16GB Dual Rank x4 DDR4-2666 Registered Memory Kit | Q2D31A |

Configuration Information

| | | |
|------------------------|--|------------|
| | HPE SGI 32GB Dual Rank x4 DDR4-2666 Registered Memory Kit | Q2D32A |
| | HPE SGI 64GB Quad Rank x4 DDR4-2666 Load Reduced Memory Kit | Q2D33A |
| | HPE 128GB Octal Rank x4 DDR4-2666 Load Reduced Memory Kit | Q7D83A |
| HPE Networking | Ethernet Options | |
| | HPE Ethernet 10Gb 2-port 535T Adapter | 813661-B21 |
| | HPE Ethernet 10Gb 2-port 571SFP+ Adapter | 728987-B21 |
| | HPE Ethernet 10Gb 2-port 561T Adapter | 716591-B21 |
| | InfiniBand Options | |
| | HPE InfiniBand EDR/Ethernet 100Gb 1-port 840QSFP28 Adapter | 825110-B21 |
| | HPE InfiniBand EDR/Ethernet 100Gb 2-port 840QSFP28 Adapter | 825111-B21 |
| | HPE 100Gb 1-port OP101 QSFP28 x16 PCIe Gen3 with Intel® Omni-Path Architecture Adapter | 829335-B21 |
| HPE Hard Drives | Hot Swap SFF drives | |
| | HPE 1TB SATA 7.2K SFF RW 512n DS HDD | Q5T11A |
| | HPE 2TB SATA 7.2K SFF RW 512e DS HDD | Q5T12A |
| | HPE 240GB SATA MU SFF RW DS SSD | Q5T13A |
| | HPE 480GB SATA MU SFF RW DS SSD | Q5T14A |
| | HPE 960GB SATA MU SFF RW DS SSD | Q5T15A |
| | HPE 1.92TB SATA MU SFF RW DS SSD | Q5T16A |
| | HPE 3.84TB SATA RI SFF ST DS SSD | Q5T17A |
| HPE GPUs | HPE NVIDIA Tesla P100 PCIe 12GB Computational Accelerator | Q2S42A |
| | HPE NVIDIA Tesla P100 PCIe 16GB Computational Accelerator | Q0E21A |
| | HPE NVIDIA Tesla P40 24GB Computational Accelerator | Q0V80A |

Technical Specifications

| | | | |
|--------------------|---|--|---|
| System Unit | Server Dimensions (L x W x D) | 1.7 x 17.2 x 35.2 in 4.3 x 43.7 x 89.4 cm | |
| | Weight (approximate) | 58 lb 21.8 kg | Maximum (four hard drives and two processors installed) |
| | System Inlet Temperature | Standard Operating Support | 10° to 35° C (50° to 95° F) |
| | | Non-operating | -40° to 60° C (-40° to 140° F) |
| | Relative Humidity (non-condensing) | Operating | 8% to 90% (non-condensing) |
| | | Non-operating | 5% to 95% (non-condensing). |
| | Altitude | Operating | 3050 m (10,000 ft). This value may be limited by the type and number of options installed. Maximum allowable altitude change rate is 457 m/min (1500 ft/min). |

Acoustic Noise

Listed are the declared A-Weighted sound power levels (LWAd) and measured average bystander position A-Weighted sound pressure levels (LpAm) when the product is operating in a 23°C ambient environment. Noise emissions were measured in accordance with ISO 7779 (ECMA 74) and declared in accordance with ISO 9296 (ECMA 109). The listed sound levels apply to standard shipping configurations. Additional options may result in increased sound levels.

| Configuration SKU | Entry | Base | Performance |
|-------------------|--------|--------|-------------|
| Idle | | | |
| LWAd | 6.9 B | 6.9 B | 6.9 B |
| LpAm | 51 dBA | 51 dBA | 51 dBA |
| Operating | | | |
| LWAd | 8.0 B | 8.3 B | 8.7 B |
| LpAm | 62 dBA | 66 dBA | 72 dBA |

NOTE: Product conformance to cited product specifications is based on sample (type) testing, evaluation, or assessment. This product or family of products is eligible to bear the appropriate compliance logos and statements.

End-of-life Management and Recycling

Hewlett Packard Enterprise offers end-of-life **product return, trade-in, and recycling programs**, in many geographic areas, for our products. Products returned to Hewlett Packard Enterprise will be recycled, recovered or disposed of in a responsible manner.

The EU WEEE directive (2002/95/EC) requires manufacturers to provide treatment information for each product type for use by treatment facilities. This information (product disassembly instructions) is posted on the Hewlett Packard Enterprise web site. These instructions may be used by recyclers and other WEEE treatment facilities as well as Hewlett Packard Enterprise OEM customers who integrate and re-sell Hewlett Packard Enterprise equipment.

Summary of Changes

| Date | Version History | Action | Description of Change |
|-------------|---------------------|---------|--|
| 4-Dec-2017 | From version 5 to 6 | Updated | Update sections Standard Features and Configuration Information |
| 23-Oct-2017 | From version 4 to 5 | Changed | Care Pack naming and Service and Support- Parts and Materials updated. |
| 2-Oct-2017 | From version 3 to 4 | Updated | Update throughout the QuickSpecs and verbiage |
| 14-Aug-2017 | From version 2 to 3 | Changed | Change throughout the QuickSpecs sections |
| 24-Jul-2017 | From version 1 to 2 | Updated | Update content throughout the QuickSpecs |
| 11-Jul-2017 | Version 1 | Created | Create QuickSpecs for HPE Apollo sx40 Server |



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