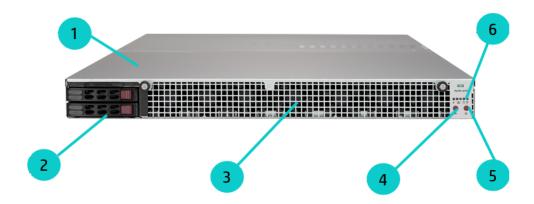
QuickSpecs

Overview

HPE Apollo sx40 Server

The HPE Apollo sx40 Server features up to four NVIDIA® Tesla®GPUs with the high-bandwidth, energy-efficient interconnect NVIDIA NVLink™ to accelerate mixed-application HPC computing as well as deep learning workloads. NV Link enables increased GPU memory bandwidth and performance for deep learning workloads.

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



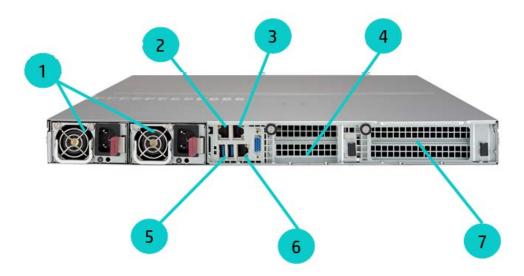
Front View

Item Description

- HPE Apollo sx40 Chassis (1U)
- 2. Status LEDs
- 3. Internal fans
- 4. Unit Identification (UID) LED/button
- 5. Power button
- 6. 2 SFF hot-swap SATA drive bays



Overview

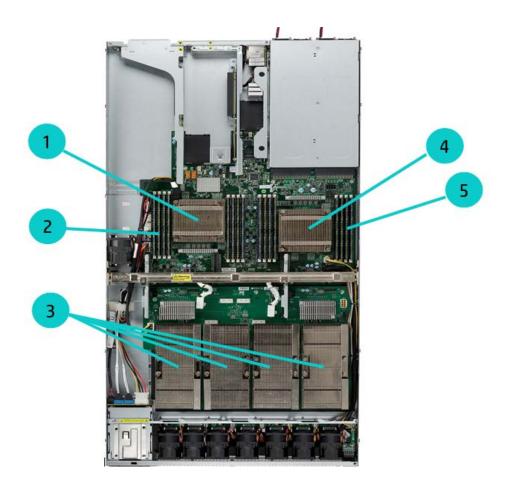


Rear View

Item Description

- 1. Two 2000W Titanium level power supplies
- 2. Embedded 1 Gb NIC 1
- 3. Embedded 1 Gb NIC 2
- 4. Two full height PCIe Gen3 x16 slots
- 5. Two full height PCIe Gen3 x16 slots
- 6. Dedicated IPMI LAN port
- 7. Two USB 3.0 connectors

Overview



Top View

Item Description

- 1. NVIDIA Tesla P100 SXM2 GPUs
- 2. DIMMs for processor 2
- 3. Processor 2
- 4. Processor 1
- 5. DIMMs for processor 1

NOTE: For the Standard Features shipped in the Factory Integrated Models, please see the "Configuration Information - Factory Integrated Models" section.

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 Hz
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	11.00 MB	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) 1.5TB (12 x 128GB)

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

NOTE: Fully populate 6 memory channels per processor at 1 DIMM per channel.

Network Controller Ethernet Options

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

Standard Features

InfiniBand Options

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

Maximum Internal HPE 1TB SATA 7.2K SFF ST 512n DS HDD

Storage

2x 1 TB HPE 2TB SATA 7.2K SFF ST 512e DS HDD 2x 2 TB HPE 240GB SATA RI SFF ST DS SSD 2x 240 GB HPE 480GB SATA RI SFF ST DS SSD 2x 480 GB HPE 960GB SATA RI SFF ST DS SSD 2x 960 GB HPE 1.92TB SATA RI SFF ST DS SSD 2x 1.92 TB HPE 3.84TB SATA RI SFF ST DS SSD 2x 3.8 TB

Interfaces

USB Ports Remote Management Port

Status LED 1 1 Power UID 1

Industry Standard Compliance

ACPI 2.0b Compliant PCle 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 sx40 is a 1U server.

UEFI

Embedded Management Configure and boot your servers securely with industry standard Unified

2 USB 3.0 (external) Dedicated IMPI port

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

Standard Features

Serial interface control

Administrator's password

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 Care Pack 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

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.

Service & Support

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 MSAxxxx3PAR 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 warranty, HPE Support Service or HPE contractual support agreement.

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

Service & Support

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 sx40 2SFF 4GPU Configure-to-order Server Q5S69A

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
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NOTE: Minimum 12 DIMMs are required if two processors are installed.

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

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

Configuration Information

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
	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 PCle Gen3 with Intel® Omni-Path Architecture Adapter	829335-B21
HPE Hard Drives	Hot Swap SFF drives	
	HPE 1TB SATA 7.2K SFF ST 512n DS HDD	Q5T11A
	HPE 2TB SATA 7.2K SFF ST 512e DS HDD	Q5T12A
	HPE 240GB SATA RI SFF ST DS SSD	Q5T13A
	HPE 480GB SATA RI SFF ST DS SSD	Q5T14A
	HPE 960GB SATA RI SFF ST DS SSD	Q5T15A
	HPE 1.92TB SATA RI SFF ST DS SSD	Q5T16A
	HPE 3.84TB SATA RI SFF ST DS SSD	Q5T17A

Technical Specifications

recillical Sp	ecifications		
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) at sea level with an altitude derating of 1.0°C per every 305 m (1.8°F per every 1000 ft) above sea level to a maximum of 3050 m (10,000 ft), no direct sustained sunlight. Maximum rate of change is 20°C/hr (36°F/hr). The upper limit and rate of change may be limited by the type and number of options installed.
		Extended Ambient Operating Support	System performance during standard operating support may be reduced if operating with a fan fault or above 30°C (86°F). For approved hardware configurations, the supported system inlet range is extended to be: 5° to 10°C (41° to 50°F) and 35° to 40°C (95° to 104°F) at sea level with an altitude derating of 1.0°C per every 175 m (1.8°F per every 574 ft) above 900 m (2953 ft) to a maximum of 3050 m (10,000 ft). The approved hardware configurations for this system are listed at the URL:
			http://www.hp.com/servers/ASHRAE
			For approved hardware configurations, the supported system inlet range is extended to be: 40° to 45°C (104° to 113°F) at sea level with an altitude derating of 1.0°C per every 125 m (1.8°F per every 410 ft) above 900 m (2953 ft) to a maximum of 3050 m (10,000 ft). The approved hardware configurations for this system are listed at the URL: http://www.hp.com/servers/ASHRAE
			System performance may be reduced if operating in the extended ambient operating range or with a fan fault.
		Non-operating	-30° o 60°C (-22° to 140°F). Maximum rate of change is 20 °C/hr (36°F/hr).
	Relative Humidity (non-condensing)	Operating	Minimum to be the higher (more moisture) of -12°C (10.4°F) dew point or 8% relative humidity. Maximum to be the lower (less moisture) of 24°C (75.2°F) dew point or 90% relative humidity.
		Non-operating	5 to 95% relative humidity (Rh), 38.7°C (101.7°F) maximum wet bulb temperature, 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).

Technical Specifications

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	LWAd 8.0 B		8.7 B		
LpAm	62 dBA	66 dBA	72 dBA		

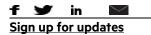
NOTE: Product conformance to cited product specifications is based on sample (type) testing, evaluation, or assessment. This product or family of products is eligible to bear the appropriate compliance logos and statements.

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
24-Jul-2017	From version 1 to 2	Updated	Updates made throughout the document
11-Jul-2017	Version 1	Created	Create QuickSpecs for HPE Apollo sx40 Server





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