

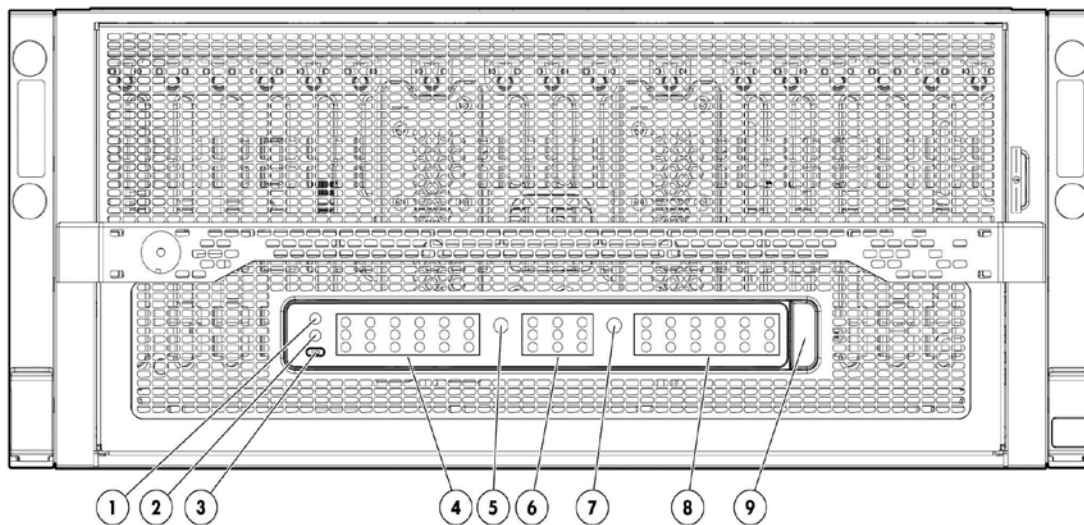
Overview

HPE ProLiant Moonshot Server

As a dedicated hosting company are you using large numbers of traditionally architected servers? Are you hitting the wall for power, cooling and space?

The HPE Moonshot System uses an innovative new architecture that results from one simple design tenet: to align purpose-built modules with the right workload to provide optimal results for your dedicated hosting environment. Traditional servers rely on dedicated components, including management, networking, storage, power cords and cooling fans in a single chassis. In contrast, the Moonshot system share these chassis components and are capable of supporting 45 servers per 4.3U chassis.

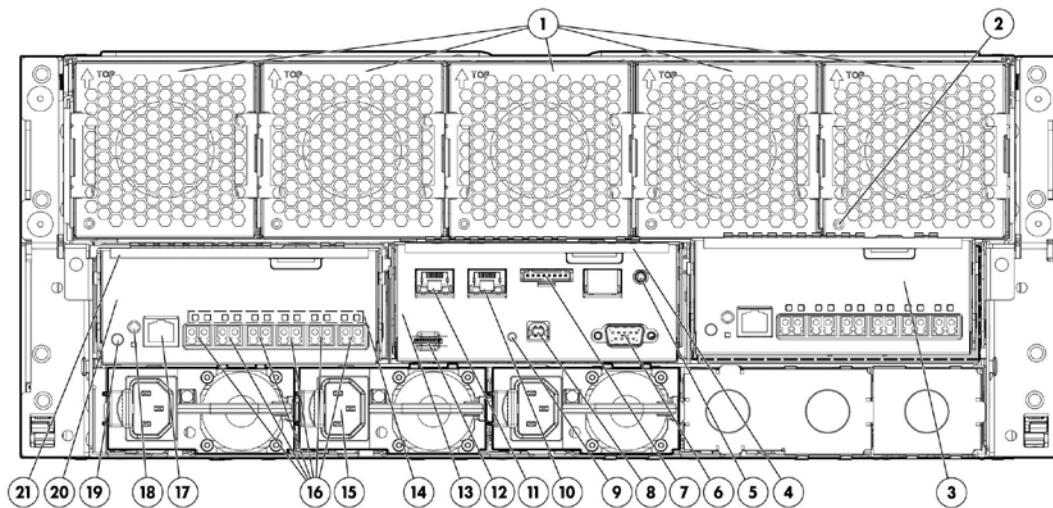
This gives you the ability to generate greater revenue from a smaller footprint while driving down your operational costs. The HPE ProLiant Moonshot Servers use low-energy processors and direct attached disk drives to provide an ideal solution for dedicated hosting.



Front View:

1. Chassis Power LED
2. System health LED
3. Chassis UID/LED/button
4. Front Panel Display LED, Moonshot server 1-18
5. Switch Module A Health LED
6. Front Panel Display LED, Moonshot server 19-27
7. Switch module B health LED
8. Front Panel Display LED, Moonshot server 28-45
9. Front Panel Display release

Overview



Back View:

1. Fans
2. Fan LED
3. HPE Moonshot-6SFP Uplink Module B
4. Chassis management module release lever
5. HPE Moonshot 1500 Chassis Management Module UID LED/button
6. Serial port
7. Rack control modular connection
8. USB port
9. HPE Moonshot 1500 Chassis Management module LED
10. iLO2 connector
11. iLO1 connector (primary)
12. SD card slot
13. HPE Moonshot 1500 Chassis Management Module
14. Switch module uplink/downlink activity LEDs
15. Power supply connector
16. 10Gb SFP connector (x6)
17. Serial connector
18. Uplink module UID/LED button
19. Uplink module health LED
20. HPE Moonshot-6SFP Uplink Module A
21. Uplink module release lever

What's New

- Starter System offering a Moonshot 1500 Chassis with fifteen (15) HPE ProLiant Moonshot Server
- Support for purchasing incremental fifteen (15) Server Multipacks
- Support for HPE Cloud OS for Moonshot

Standard Features

Standard Features - Server

Processor	Intel® Atom™ Processor S1260, 2.0 GHz		
Cache Memory	1 MB		
Chipset	Intel™ Atom™ Processor S1200 Series for Servers		
On System Management Processor	via HPE Moonshot 1500 Chassis Management module		
Memory Protection	Advanced ECC (multi-bit error protection)		
Memory	Type	Unbuffered (UDIMM), ECC @ 1333 MHz	
	DIMM Slots Available	1 SO-DIMM Slot	
	Configuration	8GB (1x8GB)	
Network Controller	Network Controller Broadcom 5720 Dual-port 1Gb Ethernet Controller		
Storage Controller	Marvell 9125		
Storage Device	Hard Drive	Each cartridge will ship with a SATA HDD or SATA SSD	
Maximum Internal Storage (per Moonshot Server)	Quick Release SATA 2.5"	1TB	1 x 1TB SATA
		500 GB	1 x 500 GB SATA
Interfaces	Network RJ-45 for Management	Two RJ-45 are located on the HPE Moonshot 1500 Chassis Management Module. One is for the HPE Moonshot iLO Chassis Management and one is for future use	
	SFP+ connector	Six 10GbE SFP+ connectors per HPE Moonshot-6SFP Uplink. NOTE: SFP+ connectors are not included as standard option. NOTE: See the HPE Moonshot-6SFP Uplink Module QuickSpecs for Technical Specifications and additional information: http://h18000.www1.hp.com/products/QuickSpecs/14734_div/14734_div.html	
	Health LED	47 front for server/switch health, one per server and switch when access panel is removed	
	Power	1 front and one per server and switch when access panel is removed	
	UID for node	1 front and 1 rear (on management module) and one per server and switch when access panel is removed	
	Drive health LED	One per server and switch when access panel is removed	
Industry Standard Compliance	ACPI 2.0b Compliant		
	SMBIOS 2.6.1		
	PXE Support		
Operating Systems and	Canonical Ubuntu		

Standard Features

Virtualization Software Support for ProLiant Servers	<p>Red Hat Enterprise Linux (RHEL) SUSE Linux Enterprise Server (SLES)</p> <p>NOTE: Only 64-bit versions of these operating systems are supported.</p> <p>NOTE: For more information on Hewlett Packard Enterprise's Certified and Supported ProLiant Servers for OS and Virtualization Software and latest listing of software drivers available for your server including how to purchase from Hewlett Packard Enterprise, please visit our OS Support Site at: http://www.hp.com/go/ossupport and our driver download page: http://www.hp.com/go/servers/Moonshot/download</p>
Server Form Factor	<p>HPE ProLiant Moonshot Servers are constructed to allow for 45 servers to fit vertically and exclusively into the HPE Moonshot 1500 chassis</p> <p>HPE Moonshot-45G Switch Modules - up to two switches install vertically and exclusively into the chassis. An HPE Moonshot-6SFP Uplink Module is required per switch.</p> <p>NOTE: See the HPE Moonshot-45G Switch Module QuickSpecs for Technical Specifications and additional information: https://www.hpe.com/h20195/v2/GetHTML.aspx?docname=c04111342</p> <p>NOTE: See the HPE Moonshot-6SFP Uplink Module QuickSpecs for Technical Specifications and additional information: https://www.hpe.com/h20195/v2/GetHTML.aspx?docname=c04111340</p>
Standard Features - HPE Moonshot 1500 Chassis	
Chassis Form Factor	4.3U
HPE Interconnect modules	<p>NOTE: Up to two identical pairs of Switch and Uplink modules are supported in the Moonshot 1500 Chassis. Dual switch modules are required for network redundancy, regardless of cartridge configuration.</p> <p>HPE Moonshot-45G Switch Module Switch with 45 1 GbE downlink ports. Compatible with HPE Moonshot-6SFP Uplink Module in the Moonshot 1500 Chassis. For more information, please visit: HPE Moonshot-45G Switch Module https://www.hpe.com/h20195/v2/GetHTML.aspx?docname=c04111342</p> <p>HPE Moonshot-6SFP Uplink Module Networking faceplate module with 6 10GbE SFP+ uplink ports. Compatible with HPE Moonshot-45G Switch Module in the Moonshot 1500 Chassis. For more information, please visit: HPE Moonshot-6SFP Uplink Module https://www.hpe.com/h20195/v2/GetHTML.aspx?docname=c04111340</p>
HPE Moonshot 1500 Chassis Management Module	<p>HPE Moonshot 1500 Chassis Management module, complete with support for SL-APM.</p> <p>The HPE Moonshot 1500 Chassis Management module manages the health of the chassis and servers and includes a command-line interface accessible via SSH to configure the chassis and server settings and control server power and UID lights, use Virtual Serial Port to servers, and to flash firmware in the chassis. It also supports IPMI management.</p>
On System Management	<p>HPE Moonshot iLO Chassis Management Firmware is the gateway for aggregated chassis management on HPE Moonshot. Moonshot iLO CM firmware reduces cost and power by sharing four iLO modules across the nodes and other system components. As a single point of access to the chassis, Moonshot iLO CM firmware allows you to configure, update, and operate HPE Moonshot via CLI, IPMI,</p>

Standard Features

and remote serial console access.

For more information, see the HPE Moonshot iLO Chassis Management Firmware User Guide on the HPE Project Moonshot Information Library (<http://www.hp.com/go/moonshot/docs>).

System Fans

5 Dual-Rotor, Hot-Plug Fans, N+1

Power Specifications

To review typical system power ratings use the HPE Power Advisor which is available via the online tool located at URL: <http://www.hp.com/go/proliant-energy-efficient> or <http://www.hp.com/go/hppoweradvisor>.

NOTE: Power Specification and Technical Content for supported power supplies can be found at: <https://www.hpe.com/h20195/v2/GetHTML.aspx?docname=c04111541>

Common Slot Power Supply

Each Moonshot Chassis comes with a minimum of two (2) HPE Common slot power supplies. HPE's Common Slot (CS) power supplies allow for commonality of power supplies across a wide range of ProLiant and Integrity servers, as well as HPE Storage solutions, and are designed to provide the highest power supply efficiency without degrading system performance. HPE CS power supplies are tested by the Electric Power Research Institute (EPRI) and certified through the ECOS 80 Plus power supply program. HPE CS power supply options provide efficiency ratings of up to 94% and are available in only a 1200W configuration for this platform which is "right-sized" for this specific solution. All HPE Common Slot power sources are UL, CE Mark Compliant, hot-plug and support redundant configurations. HPE Power Advisor can be accessed at:

<http://www.hp.com/go/hppoweradvisor>.

NOTE: Mixing of power supplies in the same server is not supported. All power supplies must be of the same output and efficiency rating. If non-matched power supplies are inserted you will get errors and operation will fail.

NOTE: Redundant Power: Optional redundant power supplies can be purchased through power supply option kits (see Power Supplies for part numbers).

Optional Features

HPE Cloud OS for Moonshot

Based on HPE Cloud OS, Cloud OS for Moonshot brings the power and extensibility of OpenStack to the Moonshot platform. It is enterprise-grade OpenStack, enhanced and supported by Hewlett Packard Enterprise. It brings the capabilities of OpenStack and HPE Cloud OS to Moonshot; helping enterprises and service providers avoid lock in, minimize complexity, and support massive scale in cloud environments:

- Simplified OpenStack® installation, management, and updates
- Rapid bare metal provisioning
- Automate deployment of single and multi-tier workloads with topology modeling

For enterprises who want to leverage OpenStack technology for rapid innovation and the beneficial economics of an open source approach, there's HPE Cloud OS. As a leader and a top contributor in the OpenStack community, HPE brings industry-leading innovation, expertise and best practices with HPE Cloud OS technology to help you drive better business outcomes.

For more information on Hewlett Packard Enterprise Cloud OS for Moonshot, please contact your sales representative or visit:

<http://www.hp.com/go/moonshot>

<http://www.hp.com/go/cloudos>

HPE Insight management

HPE Insight Control

HPE Insight Control, a product option, delivers essential infrastructure management that can help save time and money by making it easy to deploy, migrate, monitor, remote control, and optimize your IT infrastructure through a single, simple management console. For more information, see <http://www.hp.com/go/insightcontrol>.

HPE Insight Control includes one year of 24 x 7 HPE Software Technical Support and Update Service ensuring rapid access to Hewlett Packard Enterprise support staff and proactive delivery of software updates. For more information about this service, see:

<http://www.hp.com/services/insight>

High Performance Clusters

HPE Insight Cluster Management Utility

HPE Insight Cluster Management Utility (CMU) is an Hewlett Packard Enterprise-licensed and Hewlett Packard Enterprise-supported suite of tools that are used for lifecycle management of hyperscale clusters of Linux ProLiant 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.hp.com/go/cmu>

Factory Express Portfolio for Servers and Storage

HPE Factory Express offers configuration, customization, integration and deployment services for Hewlett Packard Enterprise 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. Hewlett Packard Enterprise products supported through Factory Express include a wide array of servers and storage: HPE Integrity, HPE ProLiant, HPE ProLiant Server Blades, HPE BladeSystem, HPE 9000 servers as well as the MSAxxxx, VA7xxx, EVA, XP, rackable tape libraries and configurable network switches.

For more information on Factory Express services for your specific server model please contact your sales representative or go to: <http://www.hp.com/go/factory-express>.

Service and Support

Services and Support

HPE Technology Services for Moonshot

Capitalizing on the Moonshot 1500 System requires a service partner who understands your increasingly complex business technology environment. That's why it makes sense to team up with the people who know Hewlett Packard Enterprise infrastructure hardware and software best - the experienced professionals at HPE Technology Services.

Hewlett Packard Enterprise is pleased to include full software support for Ubuntu Linux as part of your Moonshot chassis purchase. For chassis supporting revenue-generating or production level workloads, consider purchasing a level of support that matches your requirements.

Protect your business beyond warranty with HPE Pointnext operational services

HPE sells support in easy-to-buy, preconfigured packages with the combination of services, coverage and duration to fit your needs and budget. With Moonshot, we are introducing a new, simpler set of services. Simply choose the service level that best fits the criticality of your hardware.

HPE Foundation Care

HPE introduces new Foundation Care services offer scalable reactive support-packages for HPE Moonshot and software. You can choose the type and level of service that is most suitable for your IT and business needs. The Moonshot 1500 Care Pack services cover the Moonshot 1500 Chassis and the Moonshot servers with one single Care Pack SKU. Entitlement of support requires the customer to provide the 1500 chassis serial number. All HPE components structured to the Moonshot System are covered by Care Pack services inclusive of switches, power supplies, and fans. HPE Foundation Care services include hardware support, basic software support and collaborative call handling for software questions related to industry leading operating systems and software. For a complete list of software products covered, refer to: www.hp.com/services/collaborativesupport.

Full software support, including call management and ownership thru to resolution is available for select third party software. As stated earlier, support for Ubuntu software is included in the purchase of your Moonshot chassis.

HPE Datacenter Care

HPE Datacenter Care offers you a flexible, tailored, relationship-based approach to support the most demanding data centers handling the demands of hyperscale computing. This is an environment level service, purchased once to support your Moonshot environment. Other equipment may be included in this agreement for holistic datacenter coverage. With HPE Datacenter Care, you still have the choice of HPE Foundation Care reactive support which you purchase with each chassis.

HPE Datacenter Care is flexible enough to deliver exactly what you need in one relationship. All Datacenter Care support is tailored to your needs, based on our experience with hyperscale customers:

- Assigned account team, led by an account support manager (ASM) who knows your business and your IT environment and is responsible for the quality service delivery and experience.
- Enhanced call handling for the best call experience with rapid escalation and incident resolution through the HPE Hyperscale Center of Excellence
- Proactive and reactive support, configured to deliver the level of support needed by the different data center components and meeting both service-level agreement (SLA) and cost targets

Then add on other services that are tailored to your specific needs, including:

HPE Self-Service Spares Service answers the question: What do you do when you need parts? We

Service and Support

can set it up so that you get spare parts onsite through our automated self-service spares. You simply go to the part of your data center where the parts live, scan them out, scan in the broken one, and you're done. We maintain your inventory of good spares, so that what you need is ready to go when you need it. And we provide monthly service excellence reports illustrating onsite inventory performance.

To obtain further information or to order HPE Datacenter Care Service as described above, contact a local Hewlett Packard Enterprise sales representative. Please see the Additional Options section of this QuickSpecs for additional information.

HPE Moonshot Installation & Startup Service

HPE Installation and Startup Service for the Moonshot System provides for the installation of one system and its associated Moonshot servers and network switches, as well as operating system deployment and basic configuration of OS network parameters to establish network connectivity

In response to the needs of the majority of HPE Moonshot System customers, this fixed-price/fixed deliverable service targets new hardware installation and software deployments for the 1500 infrastructure. For more advanced installation, configuration, and integration requirements, custom deployments are available through a customized Statement of Work. . Please see the Additional Options section of this QuickSpecs for additional information.

For more information on Hewlett Packard Enterprise Services, contact any of our worldwide sales offices or visit one of the following websites:

HPE support services: <http://www.hp.com/services/alwayson>

HPE Pointnext operational services: <http://www.hp.com/services/carepack>

Recommended HPE Pointnext operational services for your HPE product

Optimized Care

3-Year HPE Foundation Care Call to Repair

This is HPE's highest level of reactive support giving you our commitment to have the hardware operational within six hours of opening the call with us. This service level includes hardware coverage plus software diagnosis support with collaborative call management for a broad spectrum of third party software products including O/S and hypervisors.

<https://www.hpe.com/h20195/v2/getpdf.aspx/4aa4-8877enw.pdf>

Standard Care

3-Year HPE Foundation Care 24x7

This service level provides consistent, reliable reactive support with the broadest coverage window which is recommended when maintenance must be performed outside business hours. Calls may be opened 24x7. Should an onsite visit be needed, our commitment is to respond onsite within four hours. Software call back commitment is two hours.

<https://www.hpe.com/h20195/v2/getpdf.aspx/4aa4-8877enw.pdf>

Basic Care

3- Year HPE Foundation Care Next Business Day

This service level provides the most economical support coverage and is designed for non-revenue impacting systems. Calls may be opened 24x7. Should an onsite visit be needed, our commitment is to respond onsite the next business day. Software call back commitment is two hours, during regular business hours.

For more information on Hewlett Packard Enterprise Care Pack services, contact any of our worldwide sales offices or resellers or visit our website at: <http://www.hp.com/go/carepack>

Defective Media Retention (DMR) and Comprehensive Defective Material

If your business deals with sensitive or legally protected data, you know that it's not a simple matter to return a defective hardware component, but keeping it conflicts with the terms and conditions of many standard warranty agreements. If you don't return the component, you'll be charged for the

Service and Support

Retention replacement part.

HPE Foundation Care services are available with defective media retention of failed hard drives and comprehensive defective material retention of those other data-retentive components, such as memory, switches, processors and more. This may be purchased as an optional add-on to your HPE Foundation Care service purchase. This service is critical for customers who:

- Need to control and secure their classified, proprietary and confidential data.
- Are subject to current data privacy regulations.
- Want a simpler, more cost-effective solution when choosing not to return a malfunctioning disk drive or other data retentive component.

For more information on our data privacy services, see: www.hp.com/services/dataprivacy.

HPE Support Center Hewlett Packard Enterprise provides several tools that make it simpler to get help from HPE:

HPE Support Center is personalized online support portal with access to information, tools and experts to support Hewlett Packard Enterprise business products. Submit support cases online, chat with Hewlett Packard Enterprise experts, access support resources or collaborate with peers. Learn more: <http://www.hp.com/go/hpsc>

The HPE 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 Support Center are available at no additional cost with a Hewlett Packard Enterprise warranty, HPE Care Pack or Hewlett Packard Enterprise contractual support agreement.

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

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 quick-specs, 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.

For more information To learn more on HPE Moonshot System, please contact your Hewlett Packard Enterprise sales representative.

Pre-Configured Models

Starter Systems

HPE Moonshot 1500 S1260 x15 1P CPU 500GB 1x45G Starter System 757645-B21	Chassis	One (1) HPE Moonshot 1500 Chassis NOTE: The chassis includes five (5) dual-rotor fans and one (1) HPE Moonshot 1500 Chassis Management Module as standard.
	Cartridges	Fifteen (15) HPE ProLiant Moonshot Servers NOTE: Thirty (30) cartridge blanks are delivered with the system. Additional cartridge multipacks must be purchased separately (P/N 758855-B21)
	Storage	One (1) 500GB 6G SATA 7.2k 2.5in HDD per cartridge
	Switch	One (1) HPE Moonshot-45G Switch Module
	Uplink	One (1) HPE Moonshot-6SFP Uplink Module NOTE: Transceivers for the Moonshot-6SFP are not included with the System and must be purchased separately.
	Power Supply Form Factor	Two (2) HPE 1200W Common Slot Platinum Plus Power Supplies 4.3 RU NOTE: 0.66U Spacer Blank Kit included for data center airflow management purposes. NOTE: The HPE 4.3U Rail Kit is included to properly install the chassis into a rack.
	Warranty	Chassis Warranty includes 1-Year Parts, 1-Year Labor, 1-Year Onsite support with next business day response. Cartridge Warranty includes 1-Year Parts, no Labor, no Onsite support.

Upgrade Kits

HPE ProLiant Moonshot x15 1P S1260 CPU 500GB Server Multipack 758855-B21	Cartridges	Fifteen (15) HPE ProLiant Moonshot Servers
	Storage	One (1) 500GB 6G SATA 7.2k 2.5in HDD per cartridge

Configuration Information – Factory Integrated Models

NOTE: 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 Hewlett Packard Enterprise approved configurator. Contact your local sales representative for information on configurable product offerings and requirements.

NOTE: Factory Integrated Models must start with an HPE Moonshot 1500 Chassis. Each Moonshot Chassis will be ordered with minimum configurations as follows:

Forty Five (45) identically configured Moonshot servers per chassis.

NOTE: This means that each of the 45 servers in the chassis will contain an identically sized HDD, whether it be the 500 GB or the 1 TB SATA

Two (2) 1200W Common Slot Platinum Plus Power Supplies

NOTE: Additional power supply kits may be ordered to achieve N+1 or N+N redundancy.

One (1) HPE Moonshot-45G Switch Module

And

One (1) HPE Moonshot-6SFP Uplink Module

NOTE: A second Switch and Uplink Module Kit may be ordered to give a redundant network configuration or to enable two separate networks utilizing different Moonshot servers.

NOTE: Some options may not be integrated at the factory. To ensure only valid configurations are ordered, Hewlett Packard Enterprise recommends the use of an Hewlett Packard Enterprise approved configurator. Contact your local sales representative for additional information.

Step 1: Base Configuration (Choose one HPE Moonshot 1500 Chassis)

Step 1A: Configure Moonshot Servers (one of each unless otherwise noted)

HPE Hard drives	6G SATA Quick Release SFF (2.5-inch) Midline (MDL) Drives	
	HP 500GB 6G SATA 7.2K rpm SFF (2.5-inch) Quick Release Midline 1yr Warranty Hard Drive	632078-B21
	NOTE: Please see the QuickSpecs for Technical Specifications and additional information: https://www.hpe.com/h20195/v2/GetHTML.aspx?docname=c04111725	
	6G SATA Value Endurance Quick Release SFF (2.5-inch) Enterprise Value Solid State Drives	

Step 2: Choose Required Options (one of each unless otherwise noted)

Power Supplies	HPE Common Slot Platinum Plus Power Supply Kits	
	NOTE: 94% efficiency with support for HPE Power Discovery Services.	
	HPE 1200W Common Slot Platinum Plus Hot Plug Power Supply Kit	656364-B21
	NOTE: Power Specification and Technical Content for supported power supplies can be found at: https://www.hpe.com/h20195/v2/GetHTML.aspx?docname=c04111541	
	NOTE: Minimum of two and maximum of four power supplies per chassis when configured with the HPE Moonshot Server (PN 700352-B21).	
Networking	HPE Moonshot-45G Switch Module Kit	704644-B21
	HPE Moonshot 6SFP Uplink Module Kit	704646-B21
	NOTE: Must order one of each the Switch Kit and Uplink Kit per chassis.	
	NOTE: Maximum of two of each the Switch Kit and Uplink Kit per chassis to allow configurations with redundant or dual networks.	

Configuration Information – Factory Integrated Models

Step 3: Choose additional options

HPE Insight Software	HPE Insight Control including 1yr 24x7 Support ProLiant ML/DL/BL-bundle Single Server FIO LTU	C6N36A
HPE Power Cords	HPE C13 - Nema 5-15P US/CA 110V 10Amp 1.83m Power Cord	AF556A
	HPE C13 - GB-1002 CN 250V 10Amp 1.83m Power Cord	AF557A
	HPE C13 - IRAM -2073 AR 250V 10A 2.5m Power Cord	AF558A
	HPE C13 - Nema 5-15P TH/PH 250V 10Amp 1.83m Power Cord	AF559A
	HPE C13 - CNS-690 TW 110V 13Amp 1.83m Power Cord	AF561A
	HPE C13 - IS-1293 IN 240V 6Amp LV 2.0m Power Cord	AF562A
	HPE C13 - KSC- 8305 KR 250V 10Amp 1.83m Power Cord	AF560A
	HPE C13 - SI-32 IL 250V 10Amp 1.83m Power Cord	AF564A
	HPE C13 - SEV 1011 CH 250V 10Amp 1.83m Power Cord	AF565A
	HPE C13 - DK-2.5A DK 250V 10Amp 1.83m Power Cord	AF566A
	HPE C13 - SABS-164 ZA 250V 10Amp 2.5m Power Cord	AF567A
	HPE C13 - CEE-VII EU 250V 10Amp 1.83m Power Cord	AF568A
	HPE C13 - AS3112-3 AU 250V 10Amp 2.5m Power Cord	AF569A
	HPE C13 - BS-1363A UK/HK/SG 250V 10Amp 1.83m Power Cord	AF570A
	HPE C13 - CEI-23-50 IT/CL 250V 10Amp 1.83m Power Cord	AF571A
	HPE C13 - JIS C8303 JP 100V 12Amp 2.0m Power Cord	AF572A
	HPE C13 - IS-1293 IN 250V 10Amp HV 2.5m Power Cord	SG579A
	HPE C13 - C14 WW 250V 10Amp Flint Gray 2.0m Jumper Cord	AF573A
	HPE C13 - NBR-14136 BR 250V 10Amp 1.83m Power Cord	AF591A
	HPE C13 - C14 WW 250V 10Amp 2.0m Jumper Cord	AOK02A
	HPE C13 - C14 WW 250V 10A Gray 0.7m Jumper Cord	AOK03A
	HPE C13 - C14 WW 250V 10A Gray 1.37m Jumper Cord	AOK04A
	HPE C13 - C14 WW 250V 10A Gray 3.0m Jumper Cord	AOK06A
	HPE C13-NEMA 6-15P 10A/250V 3.6m Black Power Cord	AON33A

Additional Options

NOTE: Some options may not be integrated at the factory. To ensure only valid configurations are ordered, Hewlett Packard Enterprise recommends the use of an Hewlett Packard Enterprise approved configurator. Contact your local sales representative for additional information.

HPE Insight Software	HPE Insight Control	
	HPE Insight Control including 1yr 24x7 Technical Support and Updates 1-server LTU	C6N27A
	HPE Insight Control including 1yr 24x7 TSU E-LTU	C6N28ABE
	HPE Insight Management Media Kit	C6N31A
	HPE Insight Control including 1yr 24x7 Support ProLiant ML/DL/BL-bundle FIO E-LTU	C6N36ABE
	NOTE: Electronic and Flexible-Quantity licenses can be used to purchase multiple licenses with a single activation key.	
	NOTE: Customer will receive a license entitlement certificate. The license entitlement certificate must be redeemed online or via fax in order to obtain the license activation key(s). Includes one year of 24 x 7 HPE Software Technical Support and Update Service.	
	NOTE: Licenses ship without media. The HPE Insight Control Media Kit can be ordered separately, or can be downloaded at:	
	http://www.hp.com/go/insightupdates .	
	NOTE: For additional license options please see the QuickSpecs at:	
	https://www.hpe.com/h20195/v2/GetHTML.aspx?docname=c04123391	
High Performance Clusters	HPE Insight Cluster Management Utility 1yr 24x7 Flexible LTU	D9Y33A
	HPE Insight Cluster Management Utility 3yr 24x7 Flexible LTU	D9Y34A
	HPE Insight Cluster Management Utility Media	BD477A
	NOTE: For additional license kits please see the QuickSpecs at:	
	https://www.hpe.com/h20195/v2/GetHTML.aspx?docname=c04111735	
SFP Options	HPE BladeSystem c-Class Virtual Connect 1G SFP SX Transceiver	453151-B21
	HPE BladeSystem c-Class Virtual Connect 1G SFP RJ-45 Transceiver	453154-B21
SFP+ Options	HPE BladeSystem c-Class 10Gb SFP+ SR Transceiver	455883-B21
Direct Attach Cables	HPE BladeSystem c-Class 10GbE SFP+ to SFP+ 0.5m Direct Attach Copper Cable	487649-B21
	HPE BladeSystem c-Class 10GbE SFP+ to SFP+ 1m Direct Attach Copper Cable	487652-B21
	HPE BladeSystem c-Class 10GbE SFP+ to SFP+ 3m Direct Attach Copper Cable	487655-B21
	HPE BladeSystem c-Class 10GbE SFP+ to SFP+ 7m Direct Attach Copper Cable	487658-B21
	HPE X242 10G SFP+ to SFP+ 1m Direct Attach Copper Cable	J9281B
	HPE X242 10G SFP+ to SFP+ 3m Direct Attach Copper Cable	J9283B
	HPE X242 10G SFP+ to SFP+ 7m Direct Attach Copper Cable	J9285B
	HPE FlexNetwork X240 10G SFP+ to SFP+ 5m Direct Attach Copper Cable	JG081C
	HPE B-series SFP+ to SFP+ Active Copper 1.0m Direct Attach Cable	AP818A
	HPE B-series SFP+ to SFP+ Active Copper 3.0m Direct Attach Cable	AP819A
	HPE B-series SFP+ to SFP+ Active Copper 5.0m Direct Attach Cable	AP820A
	HPE BladeSystem c-Class 10Gb SFP+ SR Transceiver	455883-B21
	HPE BladeSystem c-Class Virtual Connect 1G SFP SX Transceiver	453151-B21
	HPE BladeSystem c-Class Virtual Connect 1G SFP RJ-45 Transceiver	453154-B21

Additional Options

HPE Rail Kits (Chassis Specific)	HPE 4.3U Server Rail Kit	681254-B21
	HP 0.66U Spacer Blank Kit	681260-B21

NOTE: For data center airflow management purposes, it is recommended that either the .66U Spacer Blank or the 13U FIO Rack Adapter Kit can be ordered.

NOTE: The HPE 4.3U Rail Kit is required to be ordered for every chassis to properly install the chassis into a rack.

NOTE: The .66U Spacer Blank kit may be ordered and will give an even 5U (4.3U+0.66U) spacing in a rack. This would enable installing up to 8 chassis in a 42U rack. It is also possible to stack up to 9 chassis in a 42U rack using the 13U FIO Rack Adapter Kit. If the 13U kit is used, the .66U spacer would not be used and vice versa.

Rack Adapter	HP 13U FIO Rack Adapter Kit for 3X4.3U Chassis NOTE:NOTE: Groups Moonshot 1500 Chassis units into a 13U space. Order one per three enclosures. The 0.66U spacer is not used when selecting this option.	681677-B21
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HPE Tape Backup	NOTE: For the complete range of tape drives, autoloaders, libraries and media see: http://www.hp.com/go/tape . For hardware and software compatibility of HPE tape backup products see: http://www.hp.com/storage/SPOCK	
	HPE StoreEver LTO-6 Ultrium 6250 Tape Drive in a 1U Rack Mount Kit	COL99A
	HPE StoreEver LTO-6 Ultrium 6650 SAS Internal Tape Drive	EH963A
	HPE StoreEver LTO-6 Ultrium 6650 SAS External Tape Drive	EH964A
	HPE StoreEver LTO-6 Ultrium 6250 Internal Tape Drive	EH969A
	HPE StoreEver LTO-6 Ultrium 6250 External Tape Drive	EH970A

HPE Uninterruptible Power Systems

HPE Rack-mountable UPS

HPE R1500 G3 Uninterruptible Power Supply (UPS)

NOTE: Please see the QuickSpecs for additional information:

<https://www.hpe.com/h20195/v2/GetHTML.aspx?docname=c04154376>
(Worldwide)

R5000 Uninterruptible Power System (UPS)

HPE R5000 3U IEC309-32A High Voltage INTL Uninterruptible Power System AF461A

HPE R5000 3U L630 High Voltage NA/JP Uninterruptible Power System AF460A

NOTE: Please see the QuickSpecs for additional information:

<https://www.hpe.com/h20195/v2/GetHTML.aspx?docname=c04154372>
(Worldwide)

R7000 Uninterruptible Power System (UPS)

HPE R7000 4U 50A High Voltage NA/JP Uninterruptible Power System AF462A

HPE R7000 4U IEC-32A High Voltage INTL Uninterruptible Power System AF463A

NOTE: Please see the QuickSpecs for additional information:

<https://www.hpe.com/h20195/v2/GetHTML.aspx?docname=c04123199>
(Worldwide)

NOTE: For additional information on Hewlett Packard Enterprise Uninterruptible Power Systems please go to: <http://www.hp.com/servers/rackups>.

NOTE: For additional information on sizing your server, please reference:

<http://www.upssizer.com>

NOTE: Please see the UPS and PDU cable matrix's on the HPE Power Protection

Additional Options

and Management page. Under Power Cords, click on the "HPE Power Cord Matrix" link. That link will list cable descriptions, requirements, and specifications for UPS and PDU units. Please see the following link:

<http://www.hp.com/products/powercords>

HPE R7000 4U 50A High Voltage NA/JP Uninterruptible Power System

AF462A

HPE Power Distribution Units

HPE Monitored Power Distribution Unit: Half Rack Version

NOTE: Please see the following QuickSpecs for additional information:

<https://www.hpe.com/h20195/v2/GetHTML.aspx?docname=c04283209>
(Worldwide)

Modular Power Distribution Units 1U/0U (Up to 32 outlets)

NOTE: 1U/0U mounting brackets shipped with the unit (optimized for 10000 and 9000 series racks).

HPE Basic Modular 2.8kVA/L5-30P 24A/120V Outlets (4) C19/Horizontal NA/JP PDU

252663-D71

NOTE: This PDU has a detachable input power cord and allows for adaptability to country specific power requirements.

NOTE: Please see the following QuickSpecs for additional options including shorter jumper cables and country specific power cords:

<https://www.hpe.com/h20195/v2/GetHTML.aspx?docname=c04123438>
(Worldwide)

NOTE: For additional information on Hewlett Packard Enterprise Power Distribution Units including accessories please go to:

<http://www.hp.com/go/pduwww.hp.com/go/pdu>

NOTE: Please see the UPS and PDU cable matrix's on the HPE Power Protection and Management page. Under Power Cords, click on the "HPE Power Cord Matrix" link. That link will list cable descriptions, requirements, and specifications for UPS and PDU units. Please see the following link:

<http://www.hp.com/products/powercords>

HPE Basic Modular 2.8kVA/L5-30P 24A/120V Outlets (4) C19/Horizontal NA/JP PDU

252663-D71

iPDU Core Units

HPE Intelligent Modular 4.9kVA/L6-30P 24A/208V Outlets (6) C19/Horizontal NA/JP PDU

AF520A

HPE Intelligent Modular 3Ph 8.6kVA/L15-30P 24A/208V Outlets (6) C19/Horizontal NA/JP PDU

AF522A

HPE Intelligent Modular 7.3kVA/60309 3-wire 32A/230V Outlets (6) C19/Horizontal INTL PDU

AF525A

HPE Intelligent Power Distribution Units (iPDU)

HPE Intelligent Modular 3Ph 11kVA/60309 5-wire 16A/230V Outlets (6) C19/Horizontal INTL PDU

AF526A

iPDU Extension Bars

HPE 5xC13 Intelligent PDU Extension Bars G2 Kit

AF547A

HPE 5xC13 Outlets Power and UID LEDs Pair Standard Extension Bar

AF528A

NOTE: Please see the QuickSpecs for Technical Specifications and additional information:

<https://www.hpe.com/h20195/v2/GetHTML.aspx?docname=c04123329>
(Worldwide)

HPE 5xC13 Intelligent PDU Extension Bars G2 Kit

AF547A

HPE Basic 1.9kVA/L5-20P 16A/120V Outlets (12) 5-20R/Horizontal NA/JP PDU

H5M54A

Additional Options

	HPE Basic 2.8kVA/L5-30P 24A/120V Outlets (18) 5-20R/Vertical NA/JP PDU	H5M55A
	HPE Basic 3.6kVA/60320 C20 Detachable 16A/230V Outlets (12) C13/Horizontal WW PDU	H5M56A
HPE Basic Power Distribution Units	HPE Basic 4.9kVA/L6-30P 24A/208V Outlets (20) C13/Vertical NA/JP PDU	H5M58A
	HPE Basic 4.9kVA/L6-30P 24A/208V Outlets (24) C13 (6) C19/Vertical NA/JP PDU	H5M59A
	HPE Basic 8.3kVA/CS8265C 40A/208V Outlets (30) C13 (6) C19/Vertical NA PDU	H5M60A
	HPE Basic 3Ph 8.6kVA/L15-30P 24A/208V Outlets (18) C13/Vertical NA/JP PDU	H5M61A
	HPE Basic 3Ph 8.6kVA/L15-30P 24A/208V Outlets (24) C13 (6) C19/Vertical NA/JP PDU	H5M62A
	HPE Basic 3Ph 5.7kVA/ L21-20P 16A/120-208V Outlets (24) C13 (3) 5-20R/Vertical NA/JP PDU	H5M63A
	HPE Basic 3Ph 8.6kVA/L21-30P 24A/120-208V Outlets (24) C13 (3) C19 (3) 5-20R/Vertical NA/JP PDU	H5M64A
	HPE Basic 3Ph 11kVA/60309 16A/240V Outlets (36) C13 (6) C19/Vertical NA PDU	H5M67A
	HPE Basic 7.3kVA/60309 5-wire 32A/230V Outlets (20) C13/Vertical INTL PDU	H5M68A
	HPE Basic 7.3kVA/60309 3-wire 32A/230V Outlets (24) C13 (6) C19/Vertical INTL PDU	H5M70A
	HPE Basic 11kVA/60309 63A 3-wire 48A/230V Outlets (30) C13 (6) C19/Vertical INTL PDU	H5M71A
	HPE Basic 3Ph 11kVA/60309 5-wire 16A/230V Outlets (24) C13 (6) C19/Vertical INTL PDU	H5M72A
	HPE Basic 3Ph 11kVA/60309 5-wire 16A/230V Outlets (36) C13 (6) C19/Vertical INTL PDU	H5M73A
	HPE Basic 9.2kVA/50A Terminal Block 40A/230V Outlets (30) C13 (6) C19/Vertical WW PDU	H5M75A
		HPE 277 Volt options for H3X07A and H3X08A
	HPE 800VA - 277V Input / 230V Output NA Rack Mount Transformer	H3X09A
	NOTE: Please see the QuickSpecs for Technical Specifications and additional information: https://www.hpe.com/h20195/v2/GetHTML.aspx?docname=c04111392 (Worldwide)	
	NOTE: Additional HPE Power Distribution Units are available. For a complete list of all HPE PDUs and additional information please visit: http://www.hp.com/go/rackandpower .	
	HPE 277 Volt options for H3X07A and H3X08A	
HPE Rack Series	HPE Intelligent Series Rack	
	HP 36U 600mm x 1200mm Enterprise Pallet Rack	BW899A
	HP 36U 600mm x 1200mm Enterprise Shock Rack	BW900A
	HP 42U 600mm x 1200mm Enterprise Pallet Rack	BW907A
	HP 42U 600mm x 1200mm Enterprise Shock Rack	BW908A
	HP 47U 600mm x 1200mm Enterprise Pallet Rack	BW913A
	HP 47U 600mm x 1200mm Enterprise Shock Rack	BW914A

Additional Options

NOTE: Rack chosen is required to have 1200mm to provide space for cable management arm at the rear of the chassis and host PDU in the rear of the rack.

NOTE: Please see the QuickSpecs for Technical Specifications such as height, width, depth, weight, and color:

<https://www.hpe.com/h20195/v2/GetHTML.aspx?docname=c04123237>
(Worldwide)

NOTE: For additional information regarding Rack Cabinets, please see the following URL: <http://www.hp.com/go/rackandpower>.

HPE Rack Options	HPE TFT7600 G2 KVM Console and Monitor (TFT7600 G2)	
	NOTE: Please see the QuickSpecs for Technical Specifications and additional information:	
	https://www.hpe.com/h20195/v2/GetHTML.aspx?docname=c04154398 (Worldwide)	
	NOTE: Please see the QuickSpecs for Technical Specifications and additional information:	
	https://www.hpe.com/h20195/v2/GetHTML.aspx?docname=c04123433 (Worldwide)	
	HPE Server Console Switch G2 with Virtual Media & CAC	
	HP 0x2x16 KVM Server Console Switch G2 with Virtual Media CAC Software	AF618A
	HP 0x2x32 KVM Server Console Switch G2 with Virtual Media CAC Software	AF619A
	NOTE: Please see the QuickSpecs for Technical Specifications and additional information:	
	https://www.hpe.com/h20195/v2/GetHTML.aspx?docname=c04168373 (Worldwide)	
	HPE IP Console Switch G2 with Virtual Media & CAC	
	HP 1x4 USB/PS2 KVM Console Switch	AF611A
	HP 1x1Ex8 KVM IP Console Switch G2 with Virtual Media CAC Software	AF620A
	HP 2x1Ex16 KVM IP Console Switch G2 with Virtual Media CAC Software	AF621A
	HP 4x1Ex32 KVM IP Console Switch G2 with Virtual Media CAC Software	AF622A
	NOTE: Please see the QuickSpecs for Technical Specifications and additional information:	
	https://www.hpe.com/h20195/v2/GetHTML.aspx?docname=c04168374 (Worldwide)	

Technical Specifications

HPE Moonshot 1500 Chassis	Dimensions (H x W x D)	7.47 x 17.45 x 35.34in (18.96 x 44.33 x 89.97cm) NOTE: Rack chosen is required to have 1200mm to provide space for cable management arm at the rear of the chassis and host PDU in the rear of the rack.)
	Weight (approximate)	Maximum 180 lbs. (all hard drives, power supplies, and processors installed)
	Network Ports (per switch & uplink pair)	Forty-five (45) 10/100/1000 downlink ports Six (6) 10Gb SFP+ uplink ports NOTE: See the HPE Moonshot-45G Switch Module QuickSpecs for Technical Specifications and additional information: http://h18000.www1.hp.com/products/QuickSpecs/14732_div/14732_div.html NOTE: See the HPE Moonshot-6SFP Uplink Module QuickSpecs for Technical Specifications and additional information: http://h18000.www1.hp.com/products/QuickSpecs/14734_div/14734_div.html
	Input Requirements (per power supply)	Rated Line Voltage 90 to 140 VAC 180 to 264 VAC Rated Input Current 7.31A at 115VAC 3.6A at 230VAC Rated Input Frequency 47 to 63 Hz Rated Input Power 855W (at 100 VAC), 840.72W (at 200 VAC)
	Power Specifications	To review typical system power ratings use the HPE Power Advisor which is available via the online tool located at URL: http://www.hp.com/go/proliant-energy-efficient
	Power Supply Output (per power supply)	Rated Steady-State Power 653.10W (at 100 VAC), 653.08W (at 200 VAC)
	System Inlet Temperature	Operating 50° to 95° F (10° to 35° C) at sea level with an altitude derating of 1.8°F per every 1000 ft (1.0°C per every 304.8 m) above sea level to a maximum of 10,000 ft (3048 m), no direct sustained sunlight. Maximum rate of change is 18°F/hr (10°C/hr). The upper limit may be limited by the type and number of options installed. System performance may be reduced if operating with a fan fault or above 86°F (30°C). Non-operating -22° to 140° F (-30° to 60° C) Maximum rate of change is 36°F/hr (20°C/hr).
	Relative Humidity (non-condensing)	Operating 10 to 90% relative humidity (Rh), 28°C (82.4°F) maximum wet bulb temperature, non-condensing. Non-operating 5 to 95% relative humidity (Rh), 38.7°C (101.7°F) maximum wet bulb temperature, non-condensing.
	Altitude	Operating 10,000 ft (3048 m). This value may be limited by the type and number of options installed. Maximum allowable altitude change rate is 1500 ft/min (457 m/min). Non-operating 30,000 ft (9144 m). Maximum allowable altitude change

Technical Specifications

rate is 1500 ft/min (457 m/min).

Acoustic Noise Listed are the declared A-Weighted sound power levels (LWAd) and declared 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).

Idle

L WAd 7.1 Bels

L pAm 54 dB

Operating

L WAd 7.3 Bels

L pAm 57 dB

Emissions Classification (EMC)

FCC Rating

Class A

Normative Standards

CISPR 22; EN55022; EN55024; FCC CFR 47, Pt 15; ICES-003; CNS13438; K22;K24; EN 61000-3-2; EN 61000-3-3; EN 60950-1; IEC 60950-1

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.

Broadcom 5720 Adapter Network Interface

Compatibility

IEEE 1588, IEEE 802.1AS
IEEE 802.3az

Data Transfer Method

PCI Express v 2.1, 5.0 GT/s and 2.5 GT/s bus speeds and supports for x1, x2, x4 links widths (Lanes)

Controller

Network Transfer Rate

10Mb(Half-Duplex)	10 Mb/s per port, 20 Mb/s Combined
10Mb (Full-Duplex)	20 Mb/s per port, 40 Mb/S Combined
100Mb (Half-Duplex)	100 Mb/s per port, 200 Mb/s Combined
100Mb(Full-Duplex)	200 Mb/s per port, 400 Mb/s Combined
1Gb(Half and Full-Duplex)	1000Mb/s per port, 2000 Mb/s Combined

Connector

Internal

Cable Support

N/A

Marvell 9125

Disk Drive and Enclosure Interface - Transfer rate 6Gb/s SATA (Serial ATA)

Connectors

N/A

Server Interface

X1 PCIe 2.0 provides 5GB/s maximum bandwidth

Speed

6Gb/s SAS links provide 4.8GB/s maximum bandwidth

Cache Memory

None

Physical Drives Supported

Up to 1 physical drives

Hot Plug Support

No

RAID Support

None

Technical Specifications

Environment-friendly Products and Approach	End-of-life Management and Recycling
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Hewlett Packard Enterprise offers end-of-life Hewlett Packard Enterprise product return, trade-in, and recycling programs in many geographic areas. For trade-in information, please go to: <http://www.hp.com/go/green>. To recycle your product, please go to: <http://www.hp.com/go/green> or contact your nearest Hewlett Packard Enterprise sales office. 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 at: <http://www.hp.com/go/green>. These instructions may be used by recyclers and other WEEE treatment facilities as well as HPE OEM customers who integrate and re-sell Hewlett Packard Enterprise equipment.

Summary of Changes

Date	Version History	Action	Description of Change
23-Oct-2017	Version 13	Changed	Care Pack naming and Service and Support- Parts and Materials updated.
21-Oct-2016	From version 11 to 12	Updated	Update rebranding QuickSpecs
1-Jun-2015	From version 10 to 11	Changed	Update configuration section
05-May-2015	From Version 9 to 10	Changed	Add power supply SKU
10-Jun-2014	From Version 9 to 9	Changed	HPE Hard Drives SKUs updated. Direct Attach Cables SKUs updated. HPE Power Distribution Units updated on Additional Options. HPE Basic Power Distribution Units descriptions updated.
09-May-2014	From Version 6 to 8	Changed	Product descriptions were revised and Cloud Management Software was added to Additional Options.
18-Feb-2014	From Version 5 to 6	Changed	Changes made to overview, configuration information and Tech Specs.
13-Sep-2013	From Version 4 to 5	Changed	Hard Drives, HPE Insight Management, High Performance Clusters, HPE Tape Drives, HPE Power Distribution Units, HPE Basic Power Distribution Units, and HPE Rack Options were revised.
14-Jun-2013	From Version 3 to 4	Changed	High Performance Clusters was revised in Additional Options HPE Cable Options was added to Additional Options Quick Release SATA 2.5" SSD was removed from Maximum Internal Storage HPE SL Advanced Power Manager was removed from Additional Options
17-May-2013	From Version 2 to 3	Added	Optional Features: Added HPE Insight management and High Performance Clusters sections. Configuration Information-Factory Integrated Models: Added HPE Insight Software to Step 3. Additional Options: Added HPE Insight Software, HPE Performance Clusters, HPE Tape Backup, HPE Basic Power Distribution Units and HPE Rack Options sections. Technical Specifications: Added HPE Moonshot 45G Switch Module section.
		Removed	Switch Characteristics: Removed Switch Ports section.
		Changed	Standard Features: Updated Maximum Internal Storage (per Moonshot Server), Operating Systems and Virtualization Software Support for ProLiant Servers Configuration Information-Factory Integrated Models: Updated Step1A HPE Hard Drives section. Technical Specifications: Updated System Unit section.
19-Apr-2013	From Version 1 to 2	Changed	Overview: Updated image information. Standard Features: Updated Operating Systems and Virtualization Software Support for ProLiant Servers section. Additional Options: Updated Rack Adapter section.

Summary of Changes



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For hard drives, 1GB = 1 billion bytes. Actual formatted capacity is less.

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