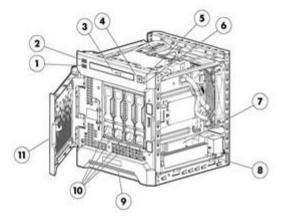
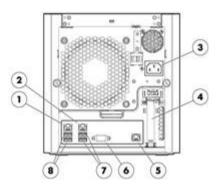
#### Overview

HP ProLiant MicroServer Gen8 is a small, quiet, and stylishly designed server that is ideal for micro and small businesses looking to build their first IT server environment. With a form factor that is easy to use and service, HP MicroServer Gen8 helps businesses get to a server that provides better and secured access to data, more efficiency in operations, while driving down their operating expenses.



#### Front View:

- 1. USB 2.0 connector
- 2. USB 2.0 connector
- 3. DVD-RW (optional)
- 4. Power On/Standby button and system power LED button
- 5. NIC status LED
- 6. Hard Drive status LED
- 7. Intel® Processor
- 8. 2 DIMM slots: DDR3 Unbuffered (UDIMM) memory
- 9. Health LED
- 10. Hard Drive Bays
- 11. Front bezel



#### **Rear View:**

- 1. NIC 2 connector
- 2. NIC 1 connector / Shared iLO connector
- 3. Power cord connector
- 4. PCIe 2.0 x16 slot
- 5. iLO 4 connector
- 6. Video connector
- 7. USB 3.0 connectors
- 8. USB 2.0 connectors

### What's New

- Higher maximum storage of 16TB with support for 4TB SATA LFF HDD
- Support for new low-priced SATA NHP LFF Standard Drives
- Support for new HP PS110 Wireless 82.11n VPN Router



### Standard Features

Processor	Intel® Celeron® G1610T (2.3Hz/2-core/2MB/35W) Processor				
FIUCESSUI	Intel® Pentium® G2020T (2.5GHz/2-core/3MB/35W) Processor				
	<b>NOTE:</b> Intel® Celeron® G1610T and Intel® Pentium® G2020T support up to 1333MHz DDR3				
	memory speed.				
	Intel® Xeon® E3-1220Lv2 (2.3GHz/2-core/3MB/17W) Processor				
	<b>NOTE:</b> Intel® Xeon® E3-1220Lv2 supports up to 1600MHz DDR3 memory speed.				
Cache Memory	3MB (1 x 3MB) L3 Cache				
	NOTE: For Dual-core Pentium and Xeon processors.				
	2MB (1 x 2MB) L3 Cache				
	NOTE: For Dual-core Celeron processor.				
	<b>NOTE:</b> All processor models above list the L3 Cache associated with that particular processor.				
Chipset	Intel® C204 Chipset				
Omper	<b>NOTE:</b> For more information regarding Intel® chipsets, please see the following URL:				
	http://www.intel.com/products/server/chipsets/.				
On System	HP iLO (Firmware: HP iLO 4)				
Management					
Processor	NOTE: For more information, visit: http://www.hp.com/go/ilo.				
Memory Protection	ECC				
Memory	Type HP SmartMemory				
Wentery					
	DDR3 Unbuffered (UDIMM)				
	DDR3 Unbuffered (UDIMM)				
	DDR3 Unbuffered (UDIMM) DIMM Slots Available 2				
	DDR3 Unbuffered (UDIMM) DIMM Slots Available 2 Standard 2GB (1 x 2GB) PC3-12800E DDR3 UDIMM				
Network Controller	DDR3 Unbuffered (UDIMM)         DIMM Slots Available       2         Standard       2GB (1 x 2GB) PC3-12800E DDR3 UDIMM         Maximum       16GB (2 x 8GB) PC3-12800E DDR3 UDIMM         NOTE: HP memory from previous generation servers are not fully compatible with the HP ProLian				
Network Controller	DDR3 Unbuffered (UDIMM)         DIMM Slots Available       2         Standard       2GB (1 x 2GB) PC3-12800E DDR3 UDIMM         Maximum       16GB (2 x 8GB) PC3-12800E DDR3 UDIMM         NOTE: HP memory from previous generation servers are not fully compatible with the HP ProLiat MicroServer Gen8.         HP Ethernet 1Gb 2-port 332i Adapter         Expansion       Technology       Bus       Connector       Form Factor       Notes				
	DDR3 Unbuffered (UDIMM)         DIMM Slots Available       2         Standard       2GB (1 x 2GB) PC3-12800E DDR3 UDIMM         Maximum       16GB (2 x 8GB) PC3-12800E DDR3 UDIMM         NOTE: HP memory from previous generation servers are not fully compatible with the HP ProLiat MicroServer Gen8.         HP Ethernet 1Gb 2-port 332i Adapter         Expansion Technology Bus Width** Connector Form Factor Notes Width				
	DDR3 Unbuffered (UDIMM)         DIMM Slots Available       2         Standard       2GB (1 x 2GB) PC3-12800E DDR3 UDIMM         Maximum       16GB (2 x 8GB) PC3-12800E DDR3 UDIMM         NOTE: HP memory from previous generation servers are not fully compatible with the HP ProLiat MicroServer Gen8.         HP Ethernet 1Gb 2-port 332i Adapter         Expansion       Technology       Bus       Connector       Form Factor       Notes				



### Standard Features

Maximum Internal Storage	Non-Hot Plug SATA	16TB (4 x 4TB) 3.5" SATA
Internal Storage Devices	Optical Drive Hard Drives	Optional: SATA DVD-RW drive None ship standard
Storage Controller	NOTE: Supports RAID Controller card must be NOTE: For more inform Array RAID Controller L (http://www.hp.com/sup NOTE: To configure arra Guide on the HP websit NOTE: For general infor	A 2 support 6.0Gb/s SATA. HDD bays 3 and 4 support 3.0Gb/s SATA. D/1/10 only. No FBWC support. For FBWC, a standup Smart Array configured. ation about the controller and its features, see the HP Dynamic Smart lser Guide on the HP website: port/DSA_RAID_UG_en). ays, see the Configuring Arrays on HP Smart Array Controllers Reference e (http://www.hp.com/support/CASAC_RG_en). rmation about HP Smart Array B120i SATA RAID Controller, please go to: com/products/servers/proliantstorage/
	Processor and chipset a System memory, memory System hardware configer Customer-specific BIOS	bry map, and memory initialization Juration (Integrated PCI devices and optional PCIe cards). S configuration (using the HP ROM-Based Setup Utility (RBSU). Mation, please refer to HP's RBSU (ROM based setup utility) user guide:
	initialization progress via during this early phase connected monitor. Add	early configuration of the video controller, to allow monitoring of a an attached monitor. If configuration or hardware errors are discovered of hardware initialization, suitable messages are now displayed on the itionally, these configuration or hardware errors are logged to the t Log (IML) to assist in diagnosis.
	is passed to the custom	essential initialization and validation of hardware components before control er-installed operating system. The ROM also provides the capability of ed media (HDD, CD-ROM) and removable media (USB), to continue ng system.
HP Server ROM	signature is verified before	emory) is now digitally signed using HP's Corporate Signing Service. This ore the flash process starts, reducing accidental programming and forts to corrupt system ROM.



### Standard Features

Video	1 Rear standard video
HP iLO Remote Management Network Port	1Gb Dedicated (default iLO4 configuration)
Micro SD slot	1 Internal <b>NOTE:</b> The MicroSD slot is not a hot-pluggable device. Customers should not attempt to plug a MicroSD card into the MicroSD slot while the server is powered.
USB 2.0 Ports	5 total (2 front, 2 rear, 1 internal)
USB 3.0 Ports	2 total (2 rear) <b>NOTE:</b> Functional after OS boot.
Network RJ-45 (Ethernet)	2 (Port 1 shared for HP iLO4 as optional configuration)
•	
•	
••	
SATA Gen 2 SATA Gen 3	
	Management Network Port Micro SD slot USB 2.0 Ports USB 3.0 Ports Network RJ-45

	country specific sku. Please see the following power cord matrix: http://www.hp.com/go/powercordmatrix.		
Power Specifications	To review typical system power ratings use the HP 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.		
	<b>NOTE:</b> See Technical Specifications section at end of QuickSpecs for Power Specifications.		
Power Supply	One (1) 150 Watts Non-Hot Plug, Non redundant Power Supply (AMS, APJ and PRC models)		
	One (1) 200 Watts Non-Hot Plug, Non redundant Power Supply (EMEA models)		

#### System Fans One (1) - Non-redundant system fan shipped standard



Standard Features			
	VMware NOTE: For more inform Virtualization Software a our Support Matrix at: h	IX (RHEL) Server (SLES) ation on HP's Certified and Supported ProLiant Servers for OS and and latest listing of software drivers available for your server, pleas http://www.hp.com/go/ossupport and our driver download page:	
	http://www.hp.com/supp	oort/MicroServerGen8	
Graphics	Integrated Matrox G200	video standard	
	<ul> <li>1280 x 1024 (32 k</li> <li>1920 x 1200 (16 k</li> </ul>		
	HP iLO 4 On System M	anagement Memory	
	<ul> <li>16 MB Flash</li> <li>256 MB DDR 3 w</li> </ul>	ith ECC (112 MB after ECC and video)	
Form Factor	Ultra Micro Tower		
On System Management	HP iLO Management Engine	HP iLO Management Engine is a comprehensive set of embedor management features supporting the complete lifecycle of the s from initial deployment, through ongoing management, to service alerting and remote support. HP iLO Management Engine come standard on all HP ProLiant Gen8 servers. The HP iLO Manage Engine portfolio includes:	server, ce es
		<ul> <li>HP iLO: The HP iLO (Integrated Lights-Out) management processor is the core foundation for the HP iLO Management Engine</li> <li>HP Agentless Management: Provides built in server heat monitoring and alerting capability without OS agents, that working the moment a power cord and an Ethernet cable</li> </ul>	nent alth it starts
		<ul> <li>Connected.</li> <li>HP Active Health System: Always on, continuous monit increased stability and shorter downtimes; 100% configur history; Health and service alerts and easy export and up Service and Support.</li> </ul>	ration load to
		<ul> <li>HP Intelligent Provisioning: Lets customers provision a configure a single server without any separate media. No SmartStart CDs or Smart Update Firmware DVD are need O To start Intelligent Provisioning:</li> </ul>	more ded.
		<ul> <li>Press the F10 key during the ProLiant Gen8 boot process (also known as power on self-te POST).</li> </ul>	est or
		<ul> <li>Please go to the Intelligent Provisioning webs http://www.hp.com/go/intelligentprovisioning f additional information and to view usage video Use the Service Pack for ProLiant (SPP) at http://www.hp.com/go/spp to get firmware an software updates.</li> </ul>	for os.
		<ul> <li>HP iLO Mobile App: Enables the ability to access, depl manage your server anytime from anywhere from select</li> </ul>	oy, and
	DA - 14565 Wo	rldwide QuickSpecs — Version 20 — 6.1.2015	Page

Standard Features

smartphones and mobile devices. For additional information please visit: http://www.hp.com/go/ilo/mobileapp

**NOTE:** For more information, visit: http://www.hp.com/go/ilo or HP iLO Management Engine technologies whitepaper

HP Insight Management	HP Service Pack for ProLiant (SPP)	HP Service Pack for ProLiant (SPP) and HP Smart Update Manager (HP SUM) version 5 provide a new, comprehensive approach to firmware and system software maintenance. Together they provide better operating stability and ensure maximum uptime. The SPP will be updated at a predictable cadence, typically coinciding with new HP server hardware launches. By enabling all firmware to be updated online and integrating firmware and system software updates in one operation HP SUM and the SPP offer faster updates of individual servers and dramatically faster updates of entire BladeSystem enclosures. Further improving system uptime and stability is the fact that HP provides 12 months of support on each Service Pack for ProLiant.
		The user experience around HP SUM and the SPP has been improved in several ways, starting with the web download. A single web page provides access to a single download containing both the latest version of HP SUM version 5 and the latest SPP. Optional smaller subsets with only specific types of servers or specific operating systems are offered to save on download time. The HP SUM application has been re-written to provide a more straightforward, intuitive user interface that guides the user through the steps of discovery, analyses and update, providing comprehensive information on available updates, criticality and interdependencies. This information is also available in reports. By providing the option of multiple local or shared repositories which can be easily updated from hp.com, HP SUM provides the tools to optimize stability and consistency throughout the company. While HP SUM and the SPP will recommend the combinations of firmware and system software that HP has found to be the best practice, the application gives customers the flexibility to set their own specific baseline.
		The Service Pack for ProLiant has been rigorously tested with specific attention for interaction between firmware, drivers and agents both within the server as well as in interaction with the BladeSystem enclosure components (Onboard Administrator and Virtual Connect). This testing ensures the highest quality as well as providing the input for HP SUM to deploy updates taking into account all interdependencies, when determining the correct updates and order of update deployment.
		<b>NOTE:</b> The Service Pack for ProLiant (which includes HP SUM 5) can be downloaded from http://www.hp.com/go/spp/download. More information can be found: http://www.hp.com/go/spp and http://www.hp.com/go/hpsum

Security

Setup password



### Standard Features

Warranty

This product is covered by a global limited warranty and supported by HP Services and a worldwide network of HP Authorized Channel Partners. 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 HP Care Pack services or customized service agreements. Hard drives have either a one year or three year warranty; refer to the specific hard drive QuickSpecs for details. **NOTE:** Server Warranty includes 1 year Next Day Parts replacement, 0-Years Labor, 0-Years Onsite support. Additional information regarding worldwide limited warranty and technical support is available at: http://h18004.www1.hp.com/products/servers/platforms/warranty/index.html.



### **Optional Features**

HP Insight management software	HP Insight Control	HP 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. HP Insight Control also supports Location and Power Discovery Services to automate many configuration, asset tracking, and power management tasks to speed implementation and prevent downtime. For more information, see http://www.hp.com/go/insightcontrol.
		HP Insight Control includes one year of 24 x 7 HP Software Technical Support and Update Service ensuring rapid access to HP support staff and proactive delivery of software updates. For more information about this service, see: http://www.hp.com/services/insight.
	HP iLO Essentials	HP iLO Essentials license ideal for small and medium business customers. The specially created HP iLO Essentials (a subset of iLO Advanced functionality) saves SMB customers time and money, by ease of remote server set up through the interactive virtual media, lowering operational costs with remote access via the Integrated Remote Console, and faster time to resolution with email-based proactive notifications. With this newly designed HP iLO Essentials license SMB customers now have the option of a server management package solely design and priced just right for their IT environments. HP iLO Essentials is available on all HP ProLiant Gen8 e-series making this an ideal solution for small business owners. For more information, see: http://www.hp.com/go/iLO/essentials
	HP iLO Advanced	HP Integrated Lights-Out Advanced License a product option, providing smart remote server management without compromise. iLO Advanced unlocks the full set of remote administration functionality for all HP ProLiant servers by activating the full Virtual Keyboard Video and Mouse remote console, multi-user collaboration, console record and replay, GUI-based and scripted virtual media and virtual folders, and enhanced security and power management functionality. For more information, see: http://www.hp.com/go/iloadvanced
HP Insight Online	product and HP support automatically display de Online's easy navigation	ew addition to the HP Support Center for one stop, secure access to information personalized to your IT environment. Insight Online can vices remotely monitored by HP Insight Remote Support. With Insight you can efficiently track your IT support contracts and device status from he. http://www.hp.com/go/insightonline
Factory Express Portfolio for Servers and Storage		ers configuration, customization, integration and deployment services for products. Customers can choose how their factory solutions are built, ed and deployed.
HP Simple Configurator	initial configurations in 3 help, or use in your exist configuration for product	vice tool to help sales and non-technical people provide customers with to 5 minutes. You may then send the configuration on for configuration ting ordering processes. If you require "custom" rack configuration or is not available in SCE, please contact HP's Customer Business Center or or assistance. http://www.hp.com/products/configurator



### Service and Support

Service and Support	HP Technology Services for Industry Standard Servers HP Technology Services delivers confidence, reduces risk and helps customers realize agility and stability. Connect to HP to help prevent problems and solve issues faster. Our support technology lets you to tap into the knowledge of millions of devices and thousands of experts to stay informed and in control, anywhere, any time.			
	<b>Protect your business beyond warranty with HP Care Pack Services</b> HP Care Pack Services enable you to order the right service level, length of coverage and response time as you purchase your new server, giving you full entitlement for the term you select.			
Optimized Care	Supports maintaining servers at optimum performance availability			
	Foundation Care 24x7, three-year Care Pack Service HP Foundation Care 24x7 connects you to HP 24 hours a day, seven days a week for assistance on resolving issues. Hardware onsite response within four hours if needed; collaborative software included in this Care Pack service provides troubleshooting assistance on industry leading software running on your HP server. Simplify your support experience and make HP your first call for hardware or software questions. http://h20195.www2.hp.com/V2/GetDocument.aspx?docname=4AA4-8876ENW&cc=us&lc=en			
Standard Care	Supports maintaining high level of server availability			
	Foundation Care NBD, three-year Care Pack Service HP Foundation Care Next Business Day connects you to HP during business hours for assistance on resolving issues – features next business day hardware onsite response if needed and software call back within two hours. Collaborative software support is included and provides troubleshooting assistance on industry leading software running on your server. Simplify your support experience and make HP your first call for hardware or software questions. http://h20195.www2.hp.com/V2/GetDocument.aspx?docname=4AA4-8876ENW&cc=us&lc=en			
Related Services	HP ProLiant Server Hardware Installation Provides for the basic hardware installation of HP branded servers, storage devices and networking options to assist you in bringing your new hardware into operation in a timely and professional manner. http://h20195.www2.hp.com/V2/GetPDF.aspx/5981-9356EN.pdf			

Get connected to HP to Prevent problems with innovative, automated monitoring tools and proactive services. Combining improve your support experience Proactive Care Services with our remote support technology such as Insight Online provides you with expert advice and personalized, cloud-based automated IT support, helping to prevent unplanned down time and solve problems quickly. For more information, visit: http://www.hp.com/go/proactiveinsightexperience



### Service and Support

Parts and Materials	HP will provide HP-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		

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 HP due to malfunction.

For more information To learn more on HP ProLiant servers, please contact your HP sales representative or HP Authorized Channel Partner. Or visit: http://www.hp.com/services/proliant



**Pre-configured Models** 

### **Entry Model**

HP ProLiant	Processor	(1) Intel® Celeron® G1610T (2.3GHz/2-core/2MB/35W) Processor
MicroServer Gen8 G1610T 1P 2GB-U B120i NHP SATA Server	Cache Memory	2MB (1 x 2MB) L3 cache
	Memory	2GB (1 x 2GB) PC3-12800E DDR3 UDIMM NOTE: Total of 2 DIMM slots.
712317-xx1	Network Controller	HP Ethernet 1Gb 2-port 332i Adapter
	Storage Controller	HP Dynamic Smart Array B120i Controller
	Hard Drive	None ship standard
	Internal Storage	4 LFF NHP SATA HDD cage; includes 4 LFF hard drive carriers
	Optical Drive Bay	None ship standard
	PCI Slots	1 standard (1-Low Profile) PCIe 2.0
	Power Supply	150W Non-Hot Plug, Non-Redundant Power Supply (all models except EMEA) 200W Non-Hot Plug, Non-Redundant Power Supply (EMEA only)
	Fans	One (1) Non-redundant system fan ships standard
	Management	HP iLO Management Engine Optional: iLO Essentials; iLO Advanced
	<b>Operating System</b>	None
	Form Factor	Ultra Micro Tower
	Warranty	Server Warranty includes 1-Year Parts, 0-Year Labor, 0-Year Onsite support with next business day response

### **Base Model**

HP ProLiant MicroServer Gen8 G2020T 1P 2GB-U B120i NHP SATA Server	Processor Cache Memory Memory	<ul> <li>(1) Intel® Pentium® G2020T (2.5GHz/2-core/3MB/35W) Processor</li> <li>3MB (1 x 3MB) L3 cache</li> <li>2GB (1 x 2GB) PC3-12800E DDR3 UDIMM</li> <li>NOTE: Total of 2 DIMM slots.</li> </ul>
712318-xx1	Network Controller	HP Ethernet 1Gb 2-port 332i Adapter
	Storage Controller	HP Dynamic Smart Array B120i Controller
	Hard Drive	None ship standard
	Internal Storage	4 LFF NHP SATA HDD cage; includes 4 LFF hard drive carriers
	Optical Drive Bay	None ship standard
	PCI-Express Slots	1 standard (1-Low Profile) PCIe 2.0
	Power Supply	150W Non-Hot Plug, Non-Redundant Power Supply (all models except EMEA) 200W Non-Hot Plug, Non-Redundant Power Supply (EMEA only)
	Fans	One (1) Non-redundant system fan ships standard
	Management	HP iLO Management Engine Optional: iLO Essentials; iLO Advanced
	Operating System	None
	Form Factor	Ultra Micro Tower
	Warranty	Server Warranty includes 1-Year Parts, 0-Year Labor, 0-Year Onsite support with next business day response



### Pre-configured Models

#### NOTE: Server model PN (F9A40A) available in EMEA only.

HP ProLiant	Processor	(1) Intel® Xeon® E3-1220Lv2 (2.3GHz/2-core/3MB/17W) Processor
MicroServer Gen8	Cache Memory	3MB (1 x 3MB) L3 cache
<b>Special Server</b> F9A40A	Memory	8GB (1 x 8GB) PC3L-10600E DDR3 UDIMM
1 0/140/1		NOTE: Total of 2 DIMM slots.
	Network Controller	HP Ethernet 1Gb 2-port 332i Adapter
	Storage Controller	HP Dynamic Smart Array B120i Controller
	Hard Drive	None ship standard
	Internal Storage	4 LFF NHP SATA HDD cage; includes 4 LFF hard drive carriers
	<b>Optical Drive Bay</b>	None ship standard
	PCI-Express Slots	1 standard (1-Low Profile) PCIe 2.0
	Power Supply	200W Non-Hot Plug, Non-Redundant Power Supply
	Fans	One (1) Non-redundant system fan ships standard
	Management	HP iLO Management Engine
		Optional: iLO Essentials; iLO Advanced
	Operating System	None
	Form Factor	Ultra Micro Tower
	Warranty	Server Warranty includes 1-Year Parts, 0-Year Labor, 0-Year Onsite support with next business day response

#### NOTE: Server model PN (G0M45A) available in APJ only.

HP ProLiant MicroServer Gen8	Processor	(1) Intel® Xeon® E3-1220Lv2 (2.3GHz/2-core/3MB/17W) Processor 3MB (1 x 3MB) L3 cache
Special Server	Cache Memory	3MB (1 x 3MB) L3 cache
G0M45A	Memory	4GB (1 x 4GB) PC3-12800E DDR3 UDIMM NOTE: Total of 2 DIMM slots.
	Network Controller	HP Ethernet 1Gb 2-port 332i Adapter
	Storage Controller	HP Dynamic Smart Array B120i Controller
	Hard Drive	None ship standard
	Internal Storage	4 LFF NHP SATA HDD cage; includes 4 LFF hard drive carriers
	<b>Optical Drive Bay</b>	9.5mm DVD-RW included
	PCI-Express Slots	1 standard (1-Low Profile) PCIe 2.0
	Power Supply	150W Non-Hot Plug, Non-Redundant Power Supply
	Fans	One (1) Non-redundant system fan ships standard
	Management	HP iLO Management Engine Optional: iLO Essentials; iLO Advanced
	<b>Operating System</b>	None
	Form Factor	Ultra Micro Tower
	Warranty	Server Warranty includes 1-Year Parts, 0-Year Labor, 0-Year Onsite support with next business day response

Country Code Key	xx = 00	U.S.
	xx = 20	Brazil
	xx = 29	Japan
	xx = 37	APD
	xx = 42	Europe
	xx = AA	PRC



Core Options

HP Unique Options	HP MicroServer Gen8 Front Bezel Faceplate Kit <b>NOTE:</b> This kit includes all three Front Bezel Faceplate colors (Blue, Red and Black).	722320-B21
HP Memory	Unbuffered with ECC DIMMs (UDIMMs)	
The memory	HP 2GB (1x2GB) Single Rank x8 PC3-12800E (DDR3-1600) Unbuffered CAS- 11 Memory Kit	669320-B21
	HP 2GB (1x2GB) Single Rank x8 PC3L-10600E (DDR3-1333) Unbuffered CAS- 9 Low Voltage Memory Kit	647905-B21
	HP 4GB (1x4GB) Dual Rank x8 PC3-12800E (DDR3-1600) Unbuffered CAS-11 Memory Kit	669322-B21
	HP 4GB (1x4GB) Dual Rank x8 PC3L-10600E (DDR3-1333) Unbuffered CAS-9 Low Voltage Memory Kit	647907-B21
	HP 8GB (1x8GB) Dual Rank x8 PC3-12800E (DDR3-1600) Unbuffered CAS-11 Memory Kit	669324-B21
	HP 8GB (1x8GB) Dual Rank x8 PC3L-10600E (DDR3-1333) Unbuffered CAS-9 Low Voltage Memory Kit	647909-B21
	<ul> <li>NOTE: All DDR3 memory option kits consist of one DIMM per kit. For detailed memory configuration rules and guidelines, please use the Online DDR3 Memory Configuration Tool: http://www.hp.com/go/ddr3memory-configurator.</li> <li>NOTE: Depending on the memory configuration and processor model, 1600MHz and 1333MHz memory may operate at a lower speed. Please see the see the "Memory" section later in this document and the Online Memory Configuration Tool for details at http://www.hp.com/go/ddr3memory-configurator.</li> <li>NOTE: For additional memory rules and guidelines, see the "Memory" section later in this document.</li> <li>NOTE: For more information on ProLiant Energy Efficient Features, see: http://www.hp.com/go/proliant-energy-efficient</li> <li>NOTE: PC3L is a low voltage memory.</li> </ul>	

HP Optical Drives HP 9.5mm SATA DVD-RW JackBlack Optical Drive



652241-B21

Core Options		
HP Hard Drives	<b>NOTE:</b> The components of a storage subsystem (e.g. the drive, the HBA/controller, firmware, and the server backplane) should operate at the same data transfer rate or the system bandwidth will be negotiated down to an acceptable level for all components. <b>NOTE:</b> Hard drives have either a one year or three year warranty; refer to the specific hard drive QuickSpecs for details.	
	6G SATA Non-Hot Plug LFF (3.5-inch) Midline (MDL) Drives	
	HP 3TB 6G SATA 7.2K rpm LFF (3.5-inch) Non-hot plug Midline 1yr Warranty Hard Drive	628065-B21
	HP 2TB 6G SATA 7.2K rpm LFF (3.5-inch) Non-hot plug Midline 1yr Warranty Hard Drive	659339-B21
	HP 1TB 6G SATA 7.2K rpm LFF (3.5-inch) Non-hot plug Midline 1yr Warranty Hard Drive	659337-B21
	HP 500GB 6G SATA 7.2K rpm LFF (3.5-inch) Non-hot plug Midline 1yr Warranty Hard Drive	659341-B21
	6G SATA Non-Hot Plug LFF (3.5-inch) Standard (STND) Drives	
	HP 4TB 6G SATA 7.2K rpm LFF (3.5in) Non-hot Plug Standard 1yr Warranty Hard Drive	801888-B21
	HP 3TB 6G SATA 7.2K rpm LFF (3.5in) Non-hot Plug Standard 1yr Warranty Hard Drive	801886-B21
	HP 2TB 6G SATA 7.2K rpm LFF (3.5in) Non-hot Plug Standard 1yr Warranty Hard Drive	801884-B21
	HP 1TB 6G SATA 7.2K rpm LFF (3.5in) Non-hot Plug Standard 1yr Warranty Hard Drive	801882-B21
	<b>NOTE:</b> Please see the QuickSpecs for Technical Specifications and additional information:	
	http://h18000.www1.hp.com/products/quickspecs/13021_div/13021_div.html (Worldwide)	
HP Networking	HP NC112T PCI Express Gigabit Server Adapter	503746-B21
	<b>NOTE:</b> Please see the QuickSpecs for Technical Specifications and additional information: http://www.hp.com/go/ProLiantNICs	
	HP PS110 Wireless 802.11n VPN AM Router	JL065A
	HP PS110 Wireless 802.11n VPN WW Router	JL066A
	<b>NOTE:</b> HP PS110 Wireless VPN Router Series, custom designed to physically stack on top of the HP ProLight MicroServer Gen8, deliver high-performance	

**NOTE:** HP PS110 Wireless VPN Router Series, custom designed to physically stack on top of the HP ProLiant MicroServer Gen8, deliver high-performance internet access and wired/wireless connectivity for offices and remote/mobile employees.

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

http://www8.hp.com/h20195/v2/GetHtml.aspx?docname=c04519011 (Worldwide)

HP PS1810-8G Switch

HP PS1810-24G Switch

**NOTE:** HP PS1810 Series Switches have been custom designed to work with the HP ProLiant MicroServer Gen8. These are layer 2 web-managed gigabit switches with two offerings - 8 port and 24 port models. PS1810 Switches have built-in technology that will enable automatic discovery of ProLiant Gen8 Servers. In addition the 8 port switch had a unique chassis design that enables physical stacking on the MicroServer.



J9833A

J9834A

### Core Options

**NOTE:** Please see the QuickSpecs for Technical Specifications and additional information: http://h18004.www1.hp.com/products/quickspecs/14586\_div/14586\_div.html (Worldwide)



Additional Options

HP Insight Software	HP Insight Control				
	HP Insight Control including 1yr 24x7 Technical Support and Updates Single Server License	C6N27A			
	HP Insight Control including 1yr 24x7 Technical Support and Updates Electronic License	C6N28ABE			
	HP Insight Control Server Provisioning Media Kit	BD883A			
	HP Insight Management Media Kit	C6N31A			
	HP Insight Control including 1yr 24x7 Support ProLiant ML/DL/BL-bundle FIO Electronic License	C6N36ABE			
	<ul> <li>NOTE: Electronic and Flexible-Quantity licenses can be used to purchase multiple licenses with a single activation key.</li> <li>NOTE: Customer will receive a license entitlement certificate. The license entitlement certificate must be redeemed online or via fax in order to obtain the</li> </ul>				
	license activation key(s). Includes one year of 24 x 7 HP Software Technical				
	Support and Update Service. <b>NOTE:</b> Licenses ship without media. The HP Insight Control Media Kit can be ordered separately, or can be downloaded at: http://www.hp.com/go/insightupdates				
	<b>NOTE:</b> For additional license options please see the QuickSpecs at: http://h18000.www1.hp.com/products/quickspecs/12631_div/12631_div.html.				
	HP Integrated Lights-Out (iLO)				
	HP Integrated Lights-Out (iLO) Advanced for ProLiant				
	HP Integrated Lights-Out Essentials including 1yr 24x7 Technical Support and Updates E-LTU	E6U62ABE			
	HP Integrated Lights-Out Essentials including 3yr 24x7 Technical Support and Updates E-LTU	E6U61ABE			
	HP iLO Advanced including 3yr 24x7 Technical Support and Updates E-LTU	E6U64ABE			
	HP iLO Advanced including 1yr 24x7 Technical Support and Updates E-LTU	E6U59ABE			
	<b>NOTE:</b> For additional license options please see the QuickSpecs at: http://h18004.www1.hp.com/products/quickspecs/14276_div/14276_div.html <b>NOTE:</b> For more information, visit: http://www.hp.com/go/ilo.				
HP Security	HP MicroServer Gen8 Front Bezel Faceplate Kit	722320-B21			
	HP Trusted Platform Module Option	488069-B21			
	NOTE: The TPM (Trusted Platform Module) is a microcontroller chip that can securely store artifacts used to authenticate the server platform. These artifacts can include passwords, certificates and encryption keys. Windows® BitLocker™ Drive Encryption (BitLocker) is a data protection feature available in Windows Server® 2008. BitLocker leverages the enhanced security capabilities of a Trusted Platform Module (TPM) version 1.2. The TPM works with BitLocker to help protect user data and to ensure that a server running Windows Server 2008 has not been tampered with while the system was offline. For more information about TPM, including a white paper, go to: http://www.hp.com/go/TPM.				
	<b>NOTE:</b> The TPM key is unique to every TPM deployed server and must be retained. Misplacing or losing the key could result in data loss.				



631667-B21

B7B63A

B7B66A

B7B69A

G9Y75A

AF478A

AF488A

AF489A

AF490A

AF491A

AF492A

G9Y76A

J2P85A

J2P88A

J2P86A

J2P89A

### Additional Options **HP Storage Controllers SAS Controllers** Smart Array P222 Controller HP Smart Array P222/512 FBWC 6Gb 1-port Int/1-port Ext SAS Controller NOTE: HP Smart Array P22/512 FBWC gualified for RAID support only for HP ProLiant MicroServer Gen8. NOTE: Please see the QuickSpecs for Technical Specifications and additional information: http://h18000.www1.hp.com/products/quickspecs/14227 div/14227 div.html (Smart Array P222 Controller) **NOTE:** For the complete range of RDX drives and media see: **HP Disk Backup** http://www.hp.com/go/rdx HP RDX Removable Disk Backup Systems USB HP RDX320 USB3.0 External Disk Backup System HP RDX500 USB 3.0 External Disk Backup System HP RDX1000 USB 3.0 External Disk Backup System **HP Uninterruptible HP DirectFlow Three Phase UPS Power Systems** Power Unit (1U UPS) NOTE: #0D1 will appear after the part number on the sales order if HP factory integration is indicated. HP R12000 DirectFlow - 1U Rackmount Uninterruptible Power System HP R12000 DirectFlow - POD 1U Rackmount Uninterruptible Power System Input/Output Module Options for 1U UPS NOTE: Choose one I/O Module per UPS. NOTE: #0D1 will appear after the part number on the sales order if HP factory integration is indicated. HP 32A 400-415 Volt Three Phase INTL R12000 DirectFlow UPS IEC309 Input/Output Module HP 30A 400-415 Volt Three Phase NA R10000 DirectFlow UPS IEC309 Input/Output Module HP 32A 380 Volt Three Phase China R12000 DirectFlow UPS Unterminated Input/Output Module HP 30A 480 Volt Three Phase NA R12000 DirectFlow UPS L22-30 Input/Output Module HP 30A 480 Volt Three Phase NA R12000 DirectFlow UPS IEC309 Input/Output Module HP 30A 400-415 Volt Three Phase NA R12000 DirectFlow UPS IEC309 Input/Output Module NOTE: All Input/Output Modules support dual output outlets except the AF484A. **HP Tower UPS** HP T750 G4 UPS Models HP T750 G4 NA/JP Uninterruptible Power System HP T750 G4 INTL Uninterruptible Power System HP T1000 G4 UPS Models HP T1000 G4 NA/JP Uninterruptible Power System

HP T1000 G4 INTL Uninterruptible Power System HP T1500 G4 UPS Models



HP T1500 G4 NA/JP Uninterruptible Power System HP T1500 G4 INTL Uninterruptible Power System HP Rack/Tower UPS HP R/T2200 G4 UPS Models HP R/T2200 G4 NA/JP Uninterruptible Power System HP R/T3000 G4 Low Voltage NA/JP Uninterruptible Pow HP R/T3000 G4 High Voltage NA/JP Uninterruptible Powe HP R/T3000 G4 High Voltage INTL Uninterruptible Powe HP R/T3000 G4 Uph Voltage INTL Uninterruptible Powe HP R/T3000 G4 Uph Voltage INTL Uninterruptible Powe	ver System J2R02A
HP Rack/Tower UPS HP R/T2200 G4 UPS Models HP R/T2200 G4 NA/JP Uninterruptible Power System HP R/T3000 G4 UPS Models HP R/T3000 G4 Low Voltage NA/JP Uninterruptible Pow HP R/T3000 G4 High Voltage NA/JP Uninterruptible Powe	J2R00A ver System J2R01A ver System J2R02A
HP R/T2200 G4 UPS Models HP R/T2200 G4 NA/JP Uninterruptible Power System HP R/T3000 G4 UPS Models HP R/T3000 G4 Low Voltage NA/JP Uninterruptible Pow HP R/T3000 G4 High Voltage NA/JP Uninterruptible Powe	ver System J2R01A ver System J2R02A
HP R/T2200 G4 NA/JP Uninterruptible Power System HP R/T3000 G4 Low Voltage NA/JP Uninterruptible Pow HP R/T3000 G4 High Voltage NA/JP Uninterruptible Pow HP R/T3000 G4 High Voltage INTL Uninterruptible Powe	ver System J2R01A ver System J2R02A
HP R/T3000 G4 UPS Models HP R/T3000 G4 Low Voltage NA/JP Uninterruptible Pow HP R/T3000 G4 High Voltage NA/JP Uninterruptible Powe HP R/T3000 G4 High Voltage INTL Uninterruptible Powe	ver System J2R01A ver System J2R02A
HP R/T3000 G4 Low Voltage NA/JP Uninterruptible Pow HP R/T3000 G4 High Voltage NA/JP Uninterruptible Pow HP R/T3000 G4 High Voltage INTL Uninterruptible Powe	ver System J2R02A
HP R/T3000 G4 High Voltage NA/JP Uninterruptible Power HP R/T3000 G4 High Voltage INTL Uninterruptible Power	ver System J2R02A
HP R/T3000 G4 High Voltage INTL Uninterruptible Powe	
HP R1500 G4 Uninterruptible Power Supply (UPS)	er System J2R04A
HP R1500 G4 NA Uninterruptible Power System	J2Q99A
HP R1500 G4 INTL Uninterruptible Power System	J2R03A
HP R1500 G4 JP/TWN Uninterruptible Power System	J2R05A
<b>NOTE:</b> For additional information please go to: http://www.hp.com/go/rackandpower (Worldwide)	
<b>NOTE:</b> Please see QuickSpecs for Technical Specificati information:	ons and additional
http://h18004.www1.hp.com/products/quickspecs/13160	_div/13160_div.html

HP Rack Options	HP LCD8500 1U Rackmount Console Kit Models	
		45000
	HP LCD8500 1U US Rackmount Console Kit	AF630A
	HP LCD8500 1U UK Rackmount Console Kit	AF631A
	HP LCD8500 1U DE Rackmount Console Kit	AF632A
	HP LCD8500 1U FR Rackmount Console Kit	AF633A
	HP LCD8500 1U JP Rackmount Console Kit	AF642A
	HP LCD8500 1U RU Rackmount Console Kit	AF643A
	HP LCD8500 1U INTL Rackmount Console Kit	AF644A
	HP LCD8500 1U US TAA Rackmount Console Kit	AF645A
	HP LCD8500 1U Rackmount Console Kit Options	
	HP Kit LCD 1.83m Latch Display Port Cable	G7T29A
	HP Location Discovery Services LCD8500 Kit	TL052A
	HP Rack LED Light Kit	BW939A
	HP Server Console Switches	
	HP 0x1x8 G3 KVM Console Switch	AF651A
	HP 0x2x16 G3 KVM Console Switch	AF652A
	HP TAA 0x2x16 G3 KVM Console Switch	AF653A
	HP USB Remote Access Key for G3 KVM Console Switches	AF650A
	HP USB Keyboard and Mouse	
	HP USB BFR with PVC Free US Keyboard/Mouse Kit	631341-B21
	HP USB BFR with PVC Free UK Keyboard/Mouse Kit	631344-B21
	HP USB BFR with PVC Free FR Keyboard/Mouse Kit	631346-B21
	HP USB BFR with PVC Free ES Keyboard/Mouse Kit	631348-B21
	HP USB BFR with PVC Free DE Keyboard/Mouse Kit	631358-B21
	HP USB BFR with PVC Free JP Keyboard/Mouse Kit	631360-B21
	HP USB BFR with PVC Free IT Keyboard/Mouse Kit	631362-B21
	HP USB BFR with PVC Free CN Keyboard/Mouse Kit	631364-B21
	HP USB BFR with PVC Free AE Keyboard/Mouse Kit	638212-B21
	· · · · · · · · · · · · · · · · · · ·	



Additional Options		
	HP USB BFR with PVC Free RU Keyboard/Mouse Kit	638214-B21
	HP USB BFR with PVC Free SE Keyboard/Mouse Kit	672097-103
	HP USB BFR with PVC Free CH Keyboard/Mouse Kit	672097-113
	HP USB BFR with PVC Free PT Keyboard/Mouse Kit	672097-133
	HP USB BFR with PVC Free TR Keyboard/Mouse Kit	672097-143
	HP USB BFR with PVC Free CZ Keyboard/Mouse Kit	672097-223
	HP USB BFR with PVC Free FI Keyboard/Mouse Kit	672097-353
	HP USB BFR with PVC Free AP-Intl Keyboard/Mouse Kit	672097-373
	HP USB BFR with PVC Free Intl Keyboard/Mouse Kit	672097-B33
	HP USB BFR with PVC Free IN Keyboard/Mouse Kit	672097-D63
	HP USB BFR with PVC Free KR Keyboard/Mouse Kit	672097-KD3
	<b>NOTE:</b> Please see the QuickSpecs for Technical Specifications and additional information:	
	http://h18000.www1.hp.com/products/quickspecs/13972_div/13972_div.html (Worldwide)	
HP USB and SD	HP Flash Media Kits for USB Drives	
Options	<b>NOTE:</b> HP qualified blank USB key for use with HP ProLiant servers that support the VMware virtualization environment and other HP value-add software. HP recommends this industry standard USB flash device for use with VMware ESXi. USB device must be installed in the internal slot of the ProLiant server for use with VMware ESXi. Refer to HP VMware Getting Started Guide for installation instructions.	
	HP 8GB USB Enterprise Mainstream Flash Media Drive Key Kit	737953-B21
	HP Enterprise Mainstream Flash Media Kits for Memory Cards	
	HP 8GB microSD Enterprise Mainstream Flash Media Kit	726116-B21
	HP 32GB microSD Enterprise Mainstream Flash Media Kit	700139-B21
	<b>NOTE:</b> Blank SD media device is supported for use with VMware. SD media must be installed in the internal slot of the ProLiant server. Learn more at: http://www.hp.com/go/proliantvirtualization. <b>NOTE:</b> Please see the QuickSpecs for Technical Specifications and additional information:	
	information:	

http://h18000.www1.hp.com/products/quickspecs/13971\_div/13971\_div.html

### HP Care Pack Services Foundation Care

HP 3 year Next business day Microserver Foundation Care Service	U2EF7E
HP 3 year Next business day with Defective Media Retention MicroserverFoundation Care Service	U2EF8E
HP 3 year Next business day wComprehensiveDefectiveMaterialRetention Microserver Foundation Care SVC	U2EF9E
HP 3 year 24x7 Microserver Foundation Care Service	U2EG0E
HP 3 year 24x7 with Defective Media Retention Microserver Foundation Care Service	U2EG1E
HP 3 year 24x7 with Comprehensive Defective Material Retention Microserver Foundation Care Service	U2EG2E
HP 3 year Call to Repair Microserver Foundation Care Service	U2EG3E
HP 3 year Call to Repair with Defective Media Retention Microserver Foundation Care Service	U2EG4E
HP 3 year CTR with Comprehensive Defective Material Retention Microserver Foundation Care Service	U2EG5E



### Additional Options

HP 4 year Next business day Microserver Foundation Care Service	U2EG6E
HP 4 year Next business day with Defective Media Retention Microserver Foundation Care Service	U2EG7E
HP 4 year Next business day wComprehensiveDefectiveMaterialRetention Microserver Foundation Care SVC	U2EG8E
HP 4 year 24x7 Microserver Foundation Care Service	U2EG9E
HP 4 year 24x7 with Defective Media Retention Microserver Foundation Care Service	U2EH0E
HP 4 year 24x7 with Comprehensive Defective Material Retention Microserver Foundation Care Service	U2EH1E
HP 5 year Next business day Microserver Foundation Care Service	U2EH2E
HP 5 year Next business day with Defective Media Retention MicroserverFoundation Care Service	U2EH3E
HP 5 year Next business day ComprehensiveDefectiveMaterialRetention Microserver Foundation Care SVC	U2EH4E
HP 5 year 24x7 Microserver Foundation Care Service	U2EH5E
HP 5 year 24x7 with Defective Media Retention Microserver Foundation Care Service	U2EH6E
HP 5 year 24x7 with Comprehensive Defective Material Retention Microserver Foundation Care Service	U2EH7E
Installation Services	
<b>NOTE:</b> Reduce the time required to get your system up and running and help minimize disruptions to your business.	
HP Install ProLiant MicroServer Service	UR508E
<b>NOTE:</b> For more information, customer/resellers can contact: http://www.hp.com/services/carepack.	



#### Memory

#### **HP ProLiant Micro Server Generation 8**

#### Standard Memory

2GB (1x2GB) PC3-12800E DDR3 UDIMM Memory kit installed (712317-xx1 and 712318-xx1) 8GB (1x8GB) PC3L-10600E DDR3 UDIMM Memory kit installed (F9A40A) 4GB (1x4GB) PC3-12800E DDR3 UDIMM Memory kit installed (G0M45A)

#### Maximum Memory

16GB of maximum memory is available with the installation of 2 x 8 GB UDIMM Memory kits.

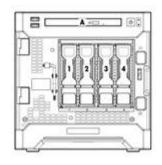
Memory		Slot	
		1A	2B
Standard	2 GB	2 GB	Empty
Optional	4 GB	2 GB	2 GB
	4 GB	4 GB	Empty
Optional	8 GB	4 GB	4 GB
Maximum	16 GB	8 GB	8 GB

Following are memory options available from HP:

HP Memory	Unbuffered with ECC DIMMs (UDIMMs)	
	HP 2GB (1x2GB) Single Rank x8 PC3-12800E (DDR3-1600) Unbuffered CAS- 11 Memory Kit	669320-B21
	HP 2GB (1x2GB) Single Rank x8 PC3L-10600E (DDR3-1333) Unbuffered CAS- 9 Low Voltage Memory Kit	647905-B21
	HP 4GB (1x4GB) Dual Rank x8 PC3-12800E (DDR3-1600) Unbuffered CAS-11 Memory Kit	669322-B21
	HP 4GB (1x4GB) Dual Rank x8 PC3L-10600E (DDR3-1333) Unbuffered CAS-9 Low Voltage Memory Kit	647907-B21
	HP 8GB (1x8GB) Dual Rank x8 PC3-12800E (DDR3-1600) Unbuffered CAS-11 Memory Kit	669324-B21
	HP 8GB (1x8GB) Dual Rank x8 PC3L-10600E (DDR3-1333) Unbuffered CAS-9 Low Voltage Memory Kit	647909-B21
	<ul> <li>NOTE: All DDR3 memory option kits consist of one DIMM per kit. For detailed memory configuration rules and guidelines, please use the Online DDR3 Memory Configuration Tool: http://www.hp.com/go/ddr3memory-configurator.</li> <li>NOTE: Depending on the memory configuration and processor model, 1600MHz and 1333MHz memory may operate at a lower speed. Please see the see the "Memory" section later in this document and the Online Memory Configuration Tool for details at http://www.hp.com/go/ddr3memory-configurator.</li> <li>NOTE: For additional memory rules and guidelines, see the "Memory" section later in this document.</li> <li>NOTE: For more information on ProLiant Energy Efficient Features, see: http://www.hp.com/go/proliant-energy-efficient</li> <li>NOTE: PC3L is a low voltage memory. Low voltage memory operates at standard voltage in the MicroServer Gen8.</li> </ul>	



### Storage



- A Optical Drive Bay
- 1, 2, 3, Four (4) Non-Hot Plug Drive Bays

### **Drive Support**

Removable Media		Position Supported	Controller
DVD-RW Drive	1	A	Integrated SATA

Maximum Storage Capacity		
Internal	SATA	16.0TB (4 x 4TB)



### Technical Specifications

System Unit	<b>Dimensions</b> (H x W x D (with feet)	) 9.15 x 9.06 x 9.65 in (23.24x	23 x 24.5 cm)		
	Weight (approximate)	Maximum (all hard drives, power supply and processor installed)	21.60 lb (9.8 kg)		
		Minimum (one hard drive, power supply, and processor installed)	15.13 lb (6.8 kg)		
	Input Requirements (per power supply)	Rated Line Voltage	100 127 VAC, 200 - 240 VAC		
		Rated Input Current	3.5 A (at 110 VAC), 2 A (at 200 VAC)		
		Rated Input Frequency	50 to 60 Hz		
		Rated Input Power	For 150W Power Supply 192 W (at 100 VAC), 185 W (at 200 VAC) For 200W Power Supply 243 W (at 100 VAC), 237 W (at 200 VAC)		
	BTU Rating	Maximum	For 150 W Power Supply 682 BTU/hr (at 100 VAC), 665 BTU/hr (at 200 VAC) For 200 W Power Supply 838.86 BTU/hr (at 100 VAC), 825.22 BTU/hr (at 200 VAC)		
	Power Specifications	To review typical system power ratings use the Power Advisor which is available via the online tool located at URL: http://www.hp.com/go/hppoweradvisor			
	Power Supply Output (per power supply)	Rated Steady-State Power	For 150 W Power Supply 150 W (at 100 VAC), 150 W (at 200 VAC) For 200 W Power Supply 200 W (at 100 VAC), 200 W (at 200 VAC)		
		Maximum Peak Power	For 150 W Power Supply 150 W (at 100 VAC), 150 W (at 200 VAC) For 200 W Power Supply 200 W (at 100 VAC), 200 W (at 200 VAC)		
	System Inlet Temperature	Operating	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 10°C/hr (18°F/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 30°C (86°F).		
		Non-operating	-30° to 60°C (-22° to 140°F). Maximum rate of change is 20°C/r (36°F/hr)		
	Relative Humidity	Operating	10 to 90% relative humidity (Rh), 28°C		



Technical Specifications			
(non-condensing)			(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		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).
	Non-operating		9144 m (30,000 ft). Maximum allowable altitude change rate is 457 m/min (1500 ft/min).
Acoustic Noise	Idle		
	led) 150W PSU	LWAd	3.9 BELS
		LpAm	21.0 dBA
	200W PSU	LWAd	3.4 BELS
		LpAm	18.0 dBA
	Operating		
	150W PSU	LWAd	3.9 BELS
		LpAm	21.0 dBA
	200W PSU	LWAd	3.5 BELS
		LpAm	18.0 dBA
Acoustic Noise	Idle	·	
(Lightly Loaded)	150W PSU	LWAd	3.4 BELS
		LpAm	18.0 dBA
	200W PSU	LWAd	3.3 BELS
		LpAm	18.0 dBA
	Operating	-	
	150W PSU	LWAd	3.5 BELS
		LpAm	18.0 dBA
	200W PSU	LWAd	3.4 BELS
		LpAm	18.0 dBA
Emissions	FCC Rating		Class B
Classification (EMC)	CFR 47, GB9254		CISPR 22; EN55022; EN55024; FCC CFR 47, Pt 15; ICES-003; CNS13438; GB9254; K22;K24; EN 61000-3-2; EN 61000-3-3; EN 60950-1; IEC 60950-1
	sample (type) te	sting, evalua	e to cited product specifications is based on ation, or assessment. This product or family the appropriate compliance logos and



### **Technical Specifications**

HP Dynamic Smart Array B120i Controller	Dimensions Disk Drive Interface - Transfer rate SATA Connectors Server Interface SATA Speed Logical Drives Supported Host Memory Addressing Hot Plug Support RAID Support	Embedded Up to 6Gb/s SATA (Serial ATA) 5 internal connectors with non-hot-plug support PCIe 3.0/2.0 x2 6Gb/s SATA physical links (compatible with 3Gb/s SATA ) None NOTE: On SATA models with embedded RAID, setup instructions are located in the MicroServer User Guide 64-bit, supporting greater than 4GB server memory space No RAID 0 (Striping), RAID 1 (Mirroring) RAID 1+0 (Striping & Mirroring)		
HP Ethernet 1Gb 2-port NC332i Adapter	Network Interface Compatibility	10Base-T/100Base-TX/1000Base-TX IEEE 802.3 10Base-T IEEE 802.3ab 1000Base-T IEEE 802.3u 100Base-TX Energy Efficient Ethernet (EEE) co (default is disabled)		
	Data Transfer Method	Single lane (x1), 100MHz PCI Express Reference Clock		
	Controller	BCM5720		
	Network Transfer Rate	10Base-T (Half-Duplex)	10 Mb/s	
		10Base-T (Full-Duplex)	20 Mb/s	
		100Base-TX (Half-Duplex)	100 Mb/s	
		100Base-TX (Full-Duplex)	200 Mb/s	
		1000Base-TX (Half and Full- Duplex)	2000Mb/s	
	Connector	RJ-45 connector		
	Cable Support	10Base-T	Categories 3, 4 or 5 UTP; up to 328 ft (100 m)	
		10/100/1000Base-TX	Category 5 UTP; up to 328 ft (100 m)	



### Technical Specifications

Environment-friendly End-of-life Products and Approach Management and Recycling Hewlett-Packard offers end-of-life HP 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 HP sales office. Products returned to HP 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 web site at: http://www.hp.com/go/green. These instructions may be used by recyclers and other WEEE treatment facilities as well as HP OEM customers who integrate and re-sell HP equipment.





### Summary of Changes

Date	Version History	Action	Description of Change
01-Jun-2015	From Version 19 to 20	Removed	Obsolete SKUs were removed from Additional Options.
30-Mar-2015	From Version 18 to 19	Added	New Hard Drives were added to Core Options.
			Added new HP Care Pack Services.
		Changed	Standard Features, Memory, Storage, and Technical Specifications were revised.
09-Feb-2015	From Version 17 to 18	Added	New Hard Drives, DirectFlow UPS, Rack and Tower G4 Models, LCD8500 1U Rackmount Models and Options were added to the Additional Options section.
			Added support for new HP PS110 Wireless 82.11n VPN Router
		Changed	HP Uninterruptible Power Systems, HP Rack Options, and HP Care Pack Services in Additional Options section were revised.
01-Dec-2014	From Version 16 to 17	Removed	Support services were removed from HP Care Pack Services.
01-Nov-2014	From Version 15 to 16	Changed	Service and Support section was revised.
25-Aug-2014	From Version 14 to 15	Changed	Columns aligned. Matching NA version since changes was done in Smart buy section.
18-Jul-2014	From Version 13 to 14	Changed	Power Specifications was revised.
11-Jul-2014	From Version 12 to 13	Changed	Power Supplies and Memory were revised.
27-Jun-2014	From Version 11 to 12	Changed	Changes were made in North America and Canada only.
18-Apr-2014	From Version 10 to 11	Changed	Service and Support, Memory, and HP Care Pack Services were revised.
31-Mar-2014	From Version 9 to 10	Changed	<ul> <li>HP Insight Control server deployment was removed from</li> <li>HP Insight Software</li> <li>HP 8GB USB Enterprise Mainstream Flash Media Drive Key</li> <li>Kit was added and HP 2GB USB Flash Media Drive Key Kit</li> <li>was removed from HP USB and SD Options</li> </ul>
25-Feb-2014	From Version 8 to 9	Added	Added Image.
18-Feb-2014	From Version 7 to 8	Changed	Processors, Memory, Operating Systems and Virtualization Software Support for ProLiant Servers, HP Disk Backup, and HP USB and SD Options were revised.
20-Dec-2013	From Version 6 to 7	Added	Note was added for HP MicroServer Gen8 Front Bezel Faceplate Kit in HP Unique Options.
11-Oct-2013	From Version 5 to 6	Changed	<ul> <li>HP Proactive Insight experience was removed from Optional Features</li> <li>Service and Support and Memory and Disk Backup descriptions were revised</li> <li>Networking Switches was added to Core Options</li> <li>HP 8GB SD Enterprise Mainstream Flash Media Kit was added to HP USB and SD Options</li> </ul>
19-Aug-2013	From Version 4 to 5	Changed	<ul> <li>HP Disk Backup and HP USB and SD Options were revised in Additional Options</li> <li>HP MicroServer Gen8 Front Bezel Faceplate Kit was added to HP Unique Options and HP Security</li> <li>HP PS1810-24G Switch was added to HP Networking</li> </ul>
26-Jul-2013	From Version 3 to 4	Changed	Updated the Base Model section
21-Jun-2013	From Version 2 to 3	Added	HP Security was added to Additional Options.
11-Jun-2013	From Version 1 to 2	Changed	Corrected Overview image issue.

© Copyright 2015 Hewlett-Packard Development Company, L.P.

The information contained herein is subject to change without notice. Microsoft and Windows NT are US registered trademarks of Microsoft Corporation. AMD, the AMD Arrow logo, AMD Opteron<sup>™</sup>, and combinations thereof, are trademarks of Advanced Micro Devices, Inc.



### Summary of Changes

The only warranties for HP products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein.

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

