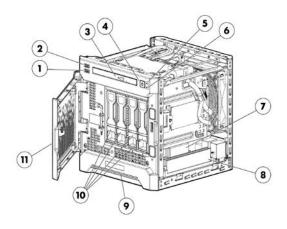
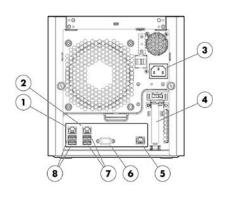
QuickSpecs

Overview

HPE ProLiant MicroServer Generation 8 (Gen8)

HPE 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, HPE 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. PCle 2.0 x16 slot
- 5. iLO 4 connector
- 6. Video connector
- 7. USB 3.0 connectors
- 8. USB 2.0 connectors

What's New

- New BTO SKUs with 4GB UDIMM
- Xeon E3-1220Lv2 BTO SKU
- Core i3-3240 BTO SKU
- 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 HPE PS110 Wireless 82.11n VPN Router



Processor Intel® Celeron® G1610T (2.3Hz/2-core/2MB/35W) Processor

Intel® Pentium® G2020T (2.5GHz/2-core/3MB/35W) Processor

NOTE: Intel® Celeron® G1610T and Intel® Pentium® G2020T support up to 1333MHz DDR3 memory

speed.

Intel® Core™ i3-3240 (3.4GHz/2-core/3MB/65W) Processor

NOTE: Intel® Core® i3-3240 support up to 1600MHz DDR3 memory speed.

Intel® Xeon® E3-1220Lv2 (2.3GHz/2-core/3MB/17W) Processor

NOTE: 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.

NOTE: All processor models above list the L3 Cache associated with that particular processor.

Chipset Intel® C204 Chipset

NOTE: For more information regarding Intel® chipsets, please see the following URL:

http://www.intel.com/products/server/chipsets/.

On System Management HPE iLO (Firmware: HPE iLO 4)

Processor NOTE: For more information, visit: http://www.hp.com/go/ilo.

Memory Protection ECC

Memory Type HPE SmartMemory

DDR3 Unbuffered (UDIMM)

DIMM Slots Available 2

Standard 4GB (1 x 4GB) PC3L-12800E DDR3 UDIMM Maximum 16GB (2 x 8GB) PC3-12800E DDR3 UDIMM

NOTE: HPE memory from previous generation servers are not fully compatible with the HPE

ProLiant MicroServer Gen8.

Network Controller HPE Ethernet 1Gb 2-port 332i Adapter

Expansion Slots Expansion Technology Bus Connector Form Factor Notes
Slot # Width** Width

1 PCle 3.0/2.0* x16 x16 Low Profile

NOTE: ** Indicates the number of physical electrical lanes running to a PCI-e connector.

NOTE: * Processor dependent. Xeon is PCle 3.0. Celeron and Pentium are PCle 2.0.

HPE Server ROMHPE ROM (Read Only Memory) is now digitally signed using The Hewlett Packard Enterprise

Corporate Signing Service. This signature is verified before the flash process starts, reducing accidental

programming and preventing malicious efforts to corrupt system ROM.

HPE ROM provides for essential initialization and validation of hardware components before control is passed to the customer-installed operating system. The ROM also provides the capability of booting from various fixed media (HDD, CD-ROM) and removable media (USB), to continue operation to the operating system.

HPE ROM performs very early configuration of the video controller, to allow monitoring of initialization progress via an attached monitor. If configuration or hardware errors are discovered during this early phase of hardware initialization, suitable messages are now displayed on the connected monitor. Additionally, these configuration or hardware errors are logged to the Integrated Management Log (IML) to assist in diagnosis.

The Hewlett Packard Enterprise ProLiant ROM is used to configure the following:

Processor and chipset status registers

System memory, memory map, and memory initialization

System hardware configuration (Integrated PCI devices and optional PCIe cards). Customer-specific BIOS configuration (using the HPE ROM-Based Setup Utility (RBSU).

NOTE: For further information, please refer to The Hewlett Packard Enterprise RBSU (ROM based setup utility) user guide: http://www.hp.com/support/rbsu.

Storage Controller

HPE Dynamic Smart Array B120i Controller

NOTE: HDD bays 1 and 2 support 6.0Gb/s SATA. HDD bays 3 and 4 support 3.0Gb/s SATA.

NOTE: Supports RAID 0/1/10 only. No FBWC support. For FBWC, a standup Smart Array Controller card must be configured.

NOTE: For more information about the controller and its features, see the HPE Dynamic Smart Array RAID Controller User Guide on the HPE website:

(http://www.hp.com/support/DSA_RAID_UG_en).

NOTE: To configure arrays, see the Configuring Arrays on HPE Smart Array Controllers Reference Guide on the HPE website (http://www.hp.com/support/CASAC_RG_en).

NOTE: For general information about HPE Smart Array B120i SATA RAID Controller, please go to: http://h18004.www1.hp.com/products/servers/proliantstorage/

arraycontrollers/dynamicsmartarray/index.html

| Internal Storage Devices | Optical Drive Hard Drives | Optional: SATA DVD-RW drive None ship standard |
|-----------------------------|---|--|
| Maximum Internal Storage | Non-Hot Plug SATA | 16TB (4 x 4TB) 3.5" SATA |
| Interfaces | Video HPE iLO Remote Management Network Port | 1 Rear standard video 1Gb Dedicated (default iLO4 configuration) |
| | Micro SD slot | 1 Internal NOTE: 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)

NOTE: Functional after OS boot.

Network RJ-45 (Ethernet) 2 (Port 1 shared for HPE iLO4 as optional configuration)

Industry Standard Compliance

ACPI V2.0b Compliant
PCIe 2.0 Compliant

PXE Support
WOL Support
USB 2.0
USB 3.0
SATA Gen 2

SATA Gen 3

Server Power Cords

The MicroServer models ship standard with a 6' country specific NEMA power cord. If customers require an alternative local power cord, they can check the power cord matrix for the appropriate 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 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: 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

Operating Systems and Virtualization Software Support for ProLiant Servers

Microsoft Windows Server

Red Hat Enterprise Linux (RHEL)
SUSE Linux Enterprise Server (SLES)

VMware

NOTE: For more information on The Hewlett Packard Enterprise Certified and Supported ProLiant Servers for OS and Virtualization Software and latest listing of software drivers available for your server, please visit our Support Matrix at: http://www.hp.com/go/ossupport and our driver download page: http://www.hp.com/support/MicroServerGen8

Graphics

Integrated Matrox G200 video standard

- 1280 x 1024 (32 bpp)
- 1920 x 1200 (16 bpp)

HPE iLO 4 On System Management Memory

16 MB Flash

• 256 MB DDR 3 with ECC (112 MB after ECC and video)

Form Factor

Ultra Micro Tower

On System Management HPE iLO Management

HPE iLO Management Engine

HPE iLO Management Engine is a comprehensive set of embedded management features supporting the complete lifecycle of the server, from initial deployment, through ongoing management, to service alerting and remote support. HPE iLO Management Engine comes standard on all HPE ProLiant Gen8 servers. The HPE iLO Management Engine portfolio includes:

- HPE iLO: The HPE iLO (Integrated Lights-Out) management processor is the core foundation for the HPE iLO Management Engine
- HPE Agentless Management: Provides built in server health monitoring and alerting capability without OS agents, that starts working the moment a power cord and an Ethernet cable are connected.
- HPE Active Health System: Always on, continuous monitoring for increased stability and shorter downtimes; 100% configuration history; Health and service alerts and easy export and upload to Service and Support.
- HPE Intelligent Provisioning: Lets customers provision and configure a single server without any separate media. No more SmartStart CDs or Smart Update Firmware DVD are needed.
 - To start Intelligent Provisioning:
 - Press the F10 key during the ProLiant Gen8 server boot process (also known as power on self-test or POST).
 - Please go to the Intelligent Provisioning website at

<u>http://www.hp.com/go/intelligentprovisioning</u> for additional information and to view usage videos.

- Use the Service Pack for ProLiant (SPP) at http://www.hp.com/go/spp to get firmware and software updates.
- HPE iLO Mobile App: Enables the ability to access, deploy, and manage your server anytime from anywhere from select 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 HPE iLO Management Engine technologies whitepaper

HPE Insight Management

HPE Service Pack for ProLiant (SPP)

HPE Service Pack for ProLiant (SPP) and HPE Smart Update Manager (HPE 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 HPE server hardware launches. By enabling all firmware to be updated online and integrating firmware and system software updates in one operation HPE 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 Hewlett Packard Enterprise provides 12 months of support on each Service Pack for ProLiant.

The user experience around HPE 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 HPE 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 HPE 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, HPE SUM provides the tools to optimize stability and consistency throughout the company. While HPE SUM and the SPP will recommend the combinations of firmware and system software that Hewlett Packard Enterprise 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 HPE SUM to deploy updates taking into account all interdependencies, when determining the correct updates and order of update deployment.

NOTE: The Service Pack for ProLiant (which includes HPE 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

Warranty

This product is covered by a global limited warranty and supported by HPE Services and a worldwide network of Hewlett Packard Enterprise 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 HPE 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

HPE Insight management software

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. HPE 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.

HPE Insight Control includes one year of 24×7 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

HPE iLO Essentials

HPE iLO Essentials license ideal for small and medium business customers. The specially created HPE 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 HPE iLO Essentials license SMB customers now have the option of a server management package solely design and priced just right for their IT environments. HPE iLO Essentials is available on all HPE ProLiant Gen8 e-series making this an ideal solution for small business owners. For more information, see: http://www.hp.com/go/iLO/essentials

HPE iLO Advanced

HPE 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 HPE 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

HPE Insight Online

HPE Insight Online is a new addition to the HPE Support Center for one stop, secure access to product and HPE support information personalized to your IT environment. Insight Online can automatically display devices remotely monitored by HPE Insight Remote Support. With Insight Online's easy navigation you can efficiently track your IT support contracts and device status from anywhere and at any time. http://www.hp.com/go/insightonline

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.

HPE Simple Configurator

SCE is a guided self-service tool to help sales and non-technical people provide customers with initial configurations in 3 to 5 minutes. You may then send the configuration on for configuration help, or use in your existing ordering processes. If you require "custom" rack configuration or configuration for

Optional Features

products not available in SCE, please contact The Hewlett Packard Enterprise Customer Business Center or an Authorized Partner for assistance. http://www.hp.com/products/configurator

Service and Support

Service and Support

HPE Technology Services for Industry Standard Servers

HPE Technology Services delivers confidence, reduces risk and helps customers realize agility and stability. Connect to HPE 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.

Protect your business beyond warranty with HPE Care Pack Services

HPE 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

HPE Foundation Care 24x7 connects you to HPE 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 HPE server. Simplify your support experience and make HPE 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

HPE Foundation Care Next Business Day connects you to HPE 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 HPE 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

HPE ProLiant Server Hardware Installation

Provides for the basic hardware installation of Hewlett Packard Enterprise 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

HPE

Connect your devices to Unlock all of the benefits of your technology investment by connecting your products to HPE. Achieve up to 77% reduction in down time, near 100% diagnostic accuracy and a single consolidated view of your environment. By connecting, you will receive 24x7monitoring, pre-failure alerts, automatic call logging, and automatic parts dispatch. HPE Proactive Care Service and HPE Datacenter Care Service customers will also benefit from proactive activities to help prevent issues and increase optimization. All of these benefits are already available to you with your server storage and networking products, securely connected to HPE support.

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

Service and Support

and recommended engineering improvements.

Parts and components that have reached their maximum supported lifetime and/or the maximum usage limitations as set forth in the manufacturer's operating manual, product QuickSpecs, or the technical product data sheet will not be provided, repaired, or replaced as part of these services.

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

For more information

To learn more on HPE ProLiant servers, please contact your Hewlett Packard Enterprise sales representative or Hewlett Packard Enterprise Authorized Channel Partner. Or visit:

http://www.hp.com/services/proliant

Entry Model

HP ProLiant MicroServer Processor
Gen8 G1610T 1P 4GB-U Cache Mer
B120i Non-hot Plug SATA

Server

819185-xx1

Processor (1) Intel® Celeron® G1610T (2.3GHz/2-core/2MB/35W) Processor

Cache Memory 2MB (1 x 2MB) L3 cache

Memory 4GB (1 x 4GB) PC3L-12800E DDR3 UDIMM

NOTE: Total of 2 DIMM slots.

Network Controller HPE Ethernet 1Gb 2-port 332i Adapter

Storage Controller HPE 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) PCle 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 HPE 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

HP ProLiant MicroServer Processor
Gen8 G1610T 1P 2GB-U
Cache Mer
B120i NHP SATA Server

712317-xx1

Processor (1) Intel® Celeron® G1610T (2.3GHz/2-core/2MB/35W) Processor

Cache Memory 2MB (1 x 2MB) L3 cache

Memory 2GB (1 x 2GB) PC3-12800E DDR3 UDIMM

NOTE: Total of 2 DIMM slots.

Network Controller HPE Ethernet 1Gb 2-port 332i Adapter

Storage Controller HPE 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 HPE iLO Management Engine

Optional: iLO Essentials; iLO Advanced

Operating System None

Form Factor Ultra Micro Tower

Server Warranty includes 1-Year Parts, 0-Year Labor, 0-Year Onsite Warranty

support with next business day response

Base Model

HP ProLiant MicroServer Processor Gen8 G2020T 1P 2GB-U **B120i NHP SATA Server**

Cache Memory

(1) Intel® Pentium® G2020T (2.5GHz/2-core/3MB/35W) Processor 3MB (1 x 3MB) L3 cache

2GB (1 x 2GB) PC3-12800E DDR3 UDIMM

Memory 712318-xx1

NOTE: Total of 2 DIMM slots.

Network Controller

HPE Ethernet 1Gb 2-port 332i Adapter Storage Controller HPE 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

HPE iLO Management Engine

Optional: iLO Essentials; iLO Advanced

Operating System

None

Form Factor Warranty

Server Warranty includes 1-Year Parts, 0-Year Labor, 0-Year Onsite

(1) Intel® Core i3-3240™ i3-3240 (3.4GHz/2-core/3MB/55W) Processor

support with next business day response

HP ProLiant MicroServer Processor Gen8 i3-3240 1P 4GB-U **B120i Non-hot Plug**

SATA Server 819186-xx1

Cache Memory 3MB (1 x 3MB) L3 cache

4GB (1 x 4GB) PC3-12800E DDR3 UDIMM **Memory**

Ultra Micro Tower

NOTE: Total of 2 DIMM slots.

Network Controller

HPE Ethernet 1Gb 2-port 332i Adapter

Storage Controller

HPE 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

200W Non-Hot Plug, Non-Redundant Power Supply (all models except

EMEA)

Fans

One (1) Non-redundant system fan ships standard

Management

HPE iLO Management Engine Optional: iLO Essentials; iLO Advanced

Operating System

None

Form Factor

Ultra Micro Tower

Warranty Server Warranty includes 1-Year Parts, O-Year Labor, O-Year Onsite

support with next business day response

Performance Model

NOTE: Server model PN 819187-xx1 not available in EMEA region.

Cache Memory

Gen8 E3-1220Lv2 1P

4GB-U B120i Non-hot Plug SATA Server

819187-xx1

HP ProLiant MicroServer Processor (1) Intel® Xeon® E3-1220Lv2 (2.3GHz/2-core/3MB/17W) Processor

Memory 4GB (1 x 4GB) PC3L-12800E DDR3 UDIMM

NOTE: Total of 2 DIMM slots.

3MB (1 x 3MB) L3 cache

Network Controller HPE Ethernet 1Gb 2-port 332i Adapter

Storage Controller HPE 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 HPE iLO Management Engine

Optional: iLO Essentials; iLO Advanced

Operating System None

Form Factor Ultra Micro Tower

Warranty Server Warranty includes 1-Year Parts, O-Year Labor, O-Year Onsite

support with next business day response

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

HP ProLiant
MicroServer Gen8
Special Server

F9A40A

Processor (1) Intel® Xeon® E3-1220Lv2 (2.3GHz/2-core/3MB/17W) Processor

Cache Memory 3MB (1 x 3MB) L3 cache

Memory 8GB (1 x 8GB) PC3L-10600E DDR3 UDIMM

NOTE: Total of 2 DIMM slots.

Network Controller HPE Ethernet 1Gb 2-port 332i Adapter

Storage Controller HPE 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 200W Non-Hot Plug, Non-Redundant Power Supply

Fans One (1) Non-redundant system fan ships standard

Management HPE 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 | <i>1</i> . |
|--|------------|
|--|------------|

| HP ProLiant MicroServer Gen8 | Processor | (1) Intel® Xeon® E3-1220Lv2 (2.3GHz/2-core/3MB/17W) Processor 3MB (1 x 3MB) L3 cache | | |
|---------------------------------|---------------------------|--|--|--|
| | Cache Memory | 3MB (1 x 3MB) L3 cache | | |
| GOM45A | Memory | 4GB (1 x 4GB) PC3-12800E DDR3 UDIMM NOTE: Total of 2 DIMM slots. | | |
| | Network Controller | HPE Ethernet 1Gb 2-port 332i Adapter | | |
| | Storage Controller | HPE 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 | 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 | HPE 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 | | |
| Country Code Key | xx = 00 | U.S. | | |
| | xx = 20 | Brazil (712317-201 and 712318-201 models only) | | |
| | xx = 29 | Japan | | |
| | xx = 37 | APD | | |
| | xx = 42 | Europe (712317-421, 712318-421 and 819185-421 models only) | | |
| | xx = AA | PRC | | |

Core Options

| HPE Unique Options | HP MicroServer Gen8 Front Bezel Faceplate Kit NOTE: This kit includes all three Front Bezel Faceplate colors (Blue, Red and Black). | 722320-B21 |
|--------------------|--|------------|
| HPE 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) Single Rank x4 PC3-12800E (DDR3-1600) Unbuffered CAS-11 Memory Kit | 820077-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 |
| | memory configuration rules and guidelines, please use the Online DDR3 Memory Configuration Tool: http://www.hp.com/go/ddr3memory-configurator . 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 . NOTE: For additional memory rules and guidelines, see the "Memory" section later in this document. NOTE: For more information on ProLiant Energy Efficient Features, see: http://www.hp.com/go/proliant-energy-efficient NOTE: PC3L is a low voltage memory. | |
| HPE Optical Drives | HP 9.5mm SATA DVD-RW JackBlack Optical Drive | 652241-B21 |
| HPE Hard Drives | NOTE: 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. NOTE: 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 | 628065-B21 |
| | Drive | |

Core Options

HPE Networking

| Drive | |
|---|------------|
| 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 |
| 6G SATA Non-Hot Plug LFF (3.5-inch) ETY HDD | |
| HP 4TB 6G SATA 5.9K rpm LFF (3.5in) Non-hot Plug Entry 512e 1yr Warranty Hard Drive | 815635-B21 |
| HP 3TB 6G SATA 7.2K rpm LFF (3.5in) Non-hot Plug Entry 512e 1yr Warranty Hard Drive | 815633-B21 |
| HP 2TB 6G SATA 7.2K rpm LFF (3.5in) Non-hot Plug Entry 512e 1yr Warranty Hard Drive | 815631-B21 |
| HP 1TB 6G SATA 7.2K rpm LFF (3.5in) Non-hot Plug Entry 512e 1yr Warranty Hard Drive | 815614-B21 |
| 6G SATA Non-Hot Plug LFF (3.5-inch) STY HDD | |
| HPE 3TB 6G SATA 7.2K rpm LFF (3.5in) Non-hot Plug Entry 512e 1yr Warranty Hard Drive | 843270-B21 |
| 6G SATA Non-Hot Plug LFF (3.5-inch) ETY HDD | |
| HPE 2TB 6G SATA 7.2K rpm LFF (3.5in) Non-hot Plug Entry 512e 1yr Warranty Hard Drive | 843268-B21 |
| HPE 1TB 6G SATA 7.2K rpm LFF (3.5in) Non-hot Plug Entry 512e 1yr Warranty Hard Drive | 843266-B21 |
| HPE 500GB 6G SATA 7.2K rpm LFF (3.5in) Non-hot Plug Entry 512e 1yr Warranty Hard Drive | 843264-B21 |
| NOTE: Please see the QuickSpecs for Technical Specifications and additional | |
| information: http://h18000.www1.hp.com/products/QuickSpecs/13021_div/13021_div.html (Worldwide) | |
| HP NC365T 4-port Ethernet Server Adapter | 593722-B21 |
| NOTE: 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 |
| NOTE: HPE PS110 Wireless VPN Router Series, custom designed to physically stack on top of the HPE ProLiant MicroServer Gen8, deliver high-performance | |

Core Options

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

J9833A

HP PS1810-24G Switch

J9834A

NOTE: HPE PS1810 Series Switches have been custom designed to work with the HPE 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.

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

http://h18004.www1.hp.com/products/QuickSpecs/14586_div/14586_div.html (Worldwide)

HPE Insight Software HPE Insight Control HP Insight Control including 1yr 24x7 Technical Support and Updates Single Server C6N27A License HP Insight Control including 1yr 24x7 Technical Support and Updates Electronic C6N28ABE License 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 C6N36ABE Electronic License 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: http://h18000.www1.hp.com/products/QuickSpecs/12631_div/12631_div.html. **HPE Integrated Lights-Out (iLO)** HPE Integrated Lights-Out (iLO) Advanced for ProLiant

HP Integrated Lights-Out Essentials including 1yr 24x7 Technical Support and

E6U62ABE

Updates E-LTU

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 E6U59ABE

HP iLO Advanced including 1yr 24x7 Technical Support and Updates E-LTU NOTE: For additional license options please see the QuickSpecs at:

http://h18004.www1.hp.com/products/QuickSpecs/14276_div/14276_div.html NOTE: For more information, visit: http://www.hp.com/go/ilo.

HPE 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.

NOTE: The TPM key is unique to every TPM deployed server and must be retained. Misplacing or losing the key could result in data loss.

HPE Storage Controllers SAS Controllers

Smart Array P222 Controller

HP Smart Array P222/512 FBWC 6Gb 1-port Int/1-port Ext SAS Controller

631667-B21

AF488A

G9Y76A

NOTE: HPE Smart Array P22/512 FBWC qualified for RAID support only for HPE

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)

HPE Uninterruptible Power Systems

HPE DirectFlow Three Phase UPS

Power Unit (1U UPS)

NOTE: #0D1 will appear after the part number on the sales order if HPE factory integration is indicated.

| HP R12000 DirectFlow - 1U Rackmount Uninterruptible Power System | G9Y75A |
|--|--------|
| HP R12000 DirectFlow - POD 1U Rackmount Uninterruptible Power System | AF478A |

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 HPE 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 | AF489A |
| HP 32A 380 Volt Three Phase China R12000 DirectFlow UPS Unterminated Input/Output Module | AF490A |
| HP 30A 480 Volt Three Phase NA R12000 DirectFlow UPS L22-30 Input/Output Module | AF491A |
| HP 30A 480 Volt Three Phase NA R12000 DirectFlow UPS IEC309 Input/Output | AF492A |

NOTE: All Input/Output Modules support dual output outlets except the AF484A.

HP 30A 400-415 Volt Three Phase NA R12000 DirectFlow UPS IEC309 Input/Output

HPE Tower UPS

Module

HPE T750 G4 UPS Models

| HP T750 G4 NA/JP Uninterruptible Power System | J2P85A |
|---|--------|
| HP T750 G4 INTL Uninterruptible Power System | J2P88A |

HPE T1000 G4 UPS Models

| HP T1000 G4 NA/JP Uninterruptible Power System | J2P86A |
|--|--------|
| HP T1000 G4 INTL Uninterruptible Power System | J2P89A |

| HPE T1500 G4 UPS Models | |
|--|--------|
| HP T1500 G4 NA/JP Uninterruptible Power System | J2P87A |
| HP T1500 G4 INTL Uninterruptible Power System | J2P90A |
| HPE Rack/Tower UPS | |
| HPE R/T2200 G4 UPS Models | |
| HP R/T2200 G4 NA/JP Uninterruptible Power System | J2R00A |
| HPE R/T3000 G4 UPS Models | |
| HP R/T3000 G4 Low Voltage NA/JP Uninterruptible Power System | J2R01A |
| HP R/T3000 G4 High Voltage NA/JP Uninterruptible Power System | J2R02A |
| HP R/T3000 G4 High Voltage INTL Uninterruptible Power System | J2R04A |
| HPE R1500 G4 Uninterruptible Power Supply (UPS) | |
| 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 |
| NOTE: For additional information please go to: | |
| http://www.hp.com/go/rackandpower (Worldwide) | |
| NOTE: Please see QuickSpecs for Technical Specifications and additional information: http://h18004.www1.hp.com/products/QuickSpecs/13160_div/13160_div.html | |
| | |

| HPE Rack Options | HPE LCD8500 1U Rackmount Console Kit Models | |
|-------------------------|--|------------|
| | 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 |
| | HPE 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 |
| | HPE 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 |
| | HPE 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

HP USB BFR with PVC Free FR Keyboard/Mouse Kit

631344-B21

631346-B21

| 631348-B21 |
|------------|
| 631358-B21 |
| 631360-B21 |
| 631362-B21 |
| 631364-B21 |
| 638212-B21 |
| 638214-B21 |
| 672097-103 |
| 672097-113 |
| 672097-133 |
| 672097-143 |
| 672097-223 |
| 672097-353 |
| 672097-373 |
| 672097-B33 |
| 672097-D63 |
| 672097-KD3 |
| |

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

http://h18000.www1.hp.com/products/QuickSpecs/13972_div/13972_div.html (Worldwide)

HPE USB and SD Options HPE Flash Media Kits for USB Drives

NOTE: HPE qualified blank USB key for use with HPE ProLiant servers that support the VMware virtualization environment and other HPE value-add software. Hewlett Packard Enterprise 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 HPE VMware Getting Started Guide for installation instructions.

HP 8GB USB Enterprise Mainstream Flash Media Drive Key Kit 737953-B21

HPE 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

NOTE: Blank SD media device is supported for use with VMware. SD media must be installed in the internal slot of the ProLiant server. SD Media used must be HPE qualified. Learn more at: http://www.hp.com/go/proliantvirtualization. **NOTE:** Please see the QuickSpecs for Technical Specifications and additional information:

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

HPE Care Pack Services Foundation Care

| HPE 3 year Foundation Care Next business day Microserver Service | U2EF7E |
|--|--------|
| HPE 3 year Foundation Care Next business day with DMR Microserver Service | U2EF8E |
| HPE 3 year Foundation Care Next business day with CDMR Microserver Service | U2EF9E |

| HPE 3 year Foundation Care 24x7 Microserver Service | U2EG0E |
|--|--------|
| HPE 3 year Foundation Care 24x7 wDMR Microserver Service | U2EG1E |
| HPE 3 year Foundation Care 24x7 wCDMR Microserver Service | U2EG2E |
| HPE 3 year Foundation Care Call to Repair Microserver Service | U2EG3E |
| HPE 3 year Foundation Care Call to Repair wDMR Microserver Service | U2EG4E |
| HPE 3 year Foundation Care Call to Repair wCDMR Microserver Service | U2EG5E |
| HPE 4 year Foundation Care Next business day Microserver Service | U2EG6E |
| HPE 4 year Foundation Care Next business day with DMR Microserver Service | U2EG7E |
| HPE 4 year Foundation Care Next business day with CDMR Microserver Service | U2EG8E |
| HPE 4 year Foundation Care 24x7 Microserver Service | U2EG9E |
| HPE 3 year Foundation Care 24x7 wDMR Microserver Service | U2EH0E |
| HPE 4 year Foundation Care 24x7 wCDMR Microserver Service | U2EH1E |
| HPE 5 year Foundation Care Next business day Microserver Service | U2EH2E |
| HPE 5 year Foundation Care Next business day with DMR Microserver Service | U2EH3E |
| HPE 5 year Foundation Care Next business day with CDMR Microserver Service | U2EH4E |
| HPE 5 year Foundation Care 24x7 Microserver Service | U2EH5E |
| HPE 3 year Foundation Care 24x7 wDMR Microserver Service | U2EH6E |
| HPE 5 year Foundation Care 24x7 wCDMR Microserver Service | U2EH7E |

Installation Services

NOTE: Reduce the time required to get your system up and running and help minimize disruptions to your business.

HP Install ProLiant MicroServer Service

NOTE: For more information, customer/resellers can contact: http://www.hp.com/services/carepack.

UR508E

Memory

HPE ProLiant Micro Server Generation 8

Standard Memory

2GB (1x2GB) PC3-12800E DDR3 UDIMM Memory kit installed (712317-xx1 and 712318-xx1)

4GB (1x4GB) PC3L-12800E DDR3 UDIMM Memory kit installed (819185-xx1 and 819187-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 | 2В | |
| Standard | 2 GB | 2 GB | Empty | |
| | 4 GB | 4 GB | Empty | |
| Optional | 4 GB | 2 GB | 2 GB | |
| | 8 GB | 4 GB | 4 GB | |
| Maximum | 16 GB | 8 GB | 8 GB | |

Following are memory options available from HPE:

HPE 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) Single Rank x4 PC3-12800E (DDR3-1600) Unbuffered CAS-11 Memory Kit | 820077-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 |

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.

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.

NOTE: For additional memory rules and guidelines, see the "Memory" section

Memory

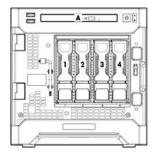
later in this document.

NOTE: For more information on ProLiant Energy Efficient Features, see:

http://www.hp.com/go/proliant-energy-efficient

NOTE: PC3L is a low voltage memory. Low voltage memory operates at standard voltage in the MicroServer Gen8.

Storage



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

Drive Support

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

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

System Unit Dimensions (H x W x D) 9.15 x 9.06 x 9.65 in (23.24x 23 x 24.5 cm)

(with feet)

Weight (approximate) Maximum 21.60 lb (9.8 kg)

(all hard drives, power supply and processor installed)

Minimum 15.13 lb (6.8 kg)

(one hard drive, power supply, and processor installed)

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)

Temperature

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 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 (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 | | 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 | | |
| (Fully Loaded) | 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 Classification | FCC Rating | | Class B |
| (EMC) | Normative Standard | ds | 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

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.

HPE Dynamic Smart Array B120i Controller **Dimensions**

Embedded

Disk Drive Interface -

Transfer rate

Up to 6Gb/s SATA (Serial ATA)

SATA Connectors

5 internal connectors with non-hot-plug support

Server Interface PCIe 3.0/2.0

SATA Speed Logical Drives x2 6Gb/s SATA physical links (compatible with 3Gb/s SATA) None

Supported

NOTE: On SATA models with embedded RAID, setup instructions are located in the MicroServer User Guide

Host Memory Addressing

64-bit, supporting greater than 4GB server memory space

Hot Plug Support

No

RAID Support

RAID 0 (Striping), RAID 1 (Mirroring)

RAID 1+0 (Striping & Mirroring)

HPE Ethernet 1Gb 2-port Network Interface NC332i Adapter

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) compliant with IEEE Std 802.3az (default is

disabled)

Data Transfer Method

Network Transfer Rate

BCM5720

Controller

10Base-T (Half-Duplex) 10 Mb/s

Single lane (x1), 100MHz PCI Express Reference Clock

10Base-T (Full-Duplex) 20 Mb/s 100 Mb/s 100Base-TX (Half-Duplex) 100Base-TX (Full-Duplex) 200 Mb/s 1000Base-TX (Half and Full-Duplex) 2000Mb/s

RJ-45 connector

Cable Support

Connector

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)

Environment-friendly Products and Approach

End-of-life Management and Recycling

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 HEWLETT PACKARD ENTERPRISE OEM customers who integrate and re-sell Hewlett Packard Enterprise equipment.

Summary of Changes

| Date | Version History | Action | Description of Change |
|----------------------------|---|--------------------|--|
| 17-Dec-2015 | From Version 23 to 24 | Added | Smart Buy models were added to the NA version. |
| 01-Dec-2015 | From Version 22 to 23 | Added | New Hard Drives offering was added to HPE Hard Drives section. |
| | | | Added new NIC card to HPE Networking. |
| | | Changed | What's New was updated. |
| | | Removed | Obsolete SKUs were removed from the QuickSpecs. |
| 28-Sep-2015 | From Version 21 to 22 | Added | Added HPE ProLiant MicroServer Gen8 i3-3240 1P 2GB-U |
| | | | B120i NHP SATA Server to Pre-Configured Models. |
| | | Changed | What's New, Processor, and HPE USB and SD Options were revised. |
| 17-Aug-2015 | From Version 20 to 21 | Added | New BTO SKUs with 4GB UDIMM and Xeon E3-1220Lv2 BTO |
| | | Changed | SKU were added to Pre-configured Models. Memory was updated. |
| | | Changed | Memory was updated. |
| | | | Service and Support was revised. |
| 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 HPE 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 HPE PS110 Wireless 82.11n VPN Router |
| | | Changed | HPE Uninterruptible Power Systems, HPE Rack Options, and |
| | | | HPE Care Pack Services in Additional Options section were revised. |
| 01-Dec-2014 | From Version 16 to 17 | Removed | Support services were removed from HPE 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 |
| 10 001/ | | | 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 From Version 11 to 12 | Changed | Power Supplies and Memory were revised. Changes were made in North America and Canada only. |
| 27-Jun-2014 18-Apr-2014 | From Version 10 to 11 | Changed Changed | Service and Support, Memory, and HPE Care Pack Services |
| 16-Арт-2014 | FIGHT VEISION TO TO | Changed | were revised. |
| 31-Mar-2014 | From Version 9 to 10 | Changed | HPE Insight Control server deployment was removed from HPE Insight Software |
| | | | HPE 8GB USB Enterprise Mainstream Flash Media Drive Key |
| | | | Kit was added and HPE 2GB USB Flash Media Drive Key Kit |
| | | | was removed from HPE USB and SD Options |
| 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, HPE Disk Backup, and |

Summary of Changes

| | | | HPE USB and SD Options were revised. |
|-------------|---------------------|---------|---|
| 20-Dec-2013 | From Version 6 to 7 | Added | Note was added for HPE MicroServer Gen8 Front Bezel Faceplate Kit in HPE Unique Options. |
| 11-Oct-2013 | From Version 5 to 6 | Changed | HPE Proactive Insight experience was removed from Optional Features Service and Support and Memory and Disk Backup descriptions were revised Networking Switches was added to Core Options HPE 8GB SD Enterprise Mainstream Flash Media Kit was added to HPE USB and SD Options |
| 19-Aug-2013 | From Version 4 to 5 | Changed | HPE Disk Backup and HPE USB and SD Options were revised in Additional Options HPE MicroServer Gen8 Front Bezel Faceplate Kit was added to HPE Unique Options and HPE Security HPE PS1810-24G Switch was added to HPE Networking |
| 26-Jul-2013 | From Version 3 to 4 | Changed | Updated the Base Model section |
| 21-Jun-2013 | From Version 2 to 3 | Added | HPE Security was added to Additional Options. |
| 11-Jun-2013 | From Version 1 to 2 | Changed | Corrected Overview image issue. |







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

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