QuickSpecs

Overview

HPE ProLiant MicroServer Gen10 Plus

HPE ProLiant MicroServer Gen10 Plus delivers an affordable compact yet powerful entry level server that you can customize for onpremises, hybrid cloud or even workloads demanding datacenter performance. It is the most compact MicroServer that we have launched so far, which can be placed flat or vertically depending on your space. The latest Intel Xeon® E and Pentium® processors supported to deliver compute performance as well as security and remote management into the server with HPE iLO silicon root of trust. Along with other enhancements such as 4x 1GbE onboard NICs and USB 3.2 Gen2 Type-A, whether you want a general purpose server, NAS or even a virtualization server, you will be surprised at how much you can get out of this small and affordable server.

141 1 2

Front View (External):

- 1. USB 3.2 Gen2 Type-A port
- 2. USB 3.2 Gen2 Type-A port
- 3. Drive activity LED

- 4. NIC status LED
- 5. Health LED
- 6. Power on/Standby button and system power LED



Overview



1. Four (4) LFF NHP SATA HDD cage

Front View (Internal):

3. USB 3.2 Gen2 Type-A ports

- ATA HDD cage
- 2. Hard drive screws



- 1. Padlock eye
- 2. Kensington security slot
- 3. Four (4) USB 3.2 Gen1 Type-A ports
- 4. DisplayPort 1.1a
- 5. VGA port

- **Rear View:**
 - 6. Four (4) NIC ports (NIC1-4 from left)
 - 7. Power clip hole (for the power cord clip to firmly secure the power adapter. Clip is by default installed)
 - 8. Power jack
 - 9. PCIe Gen3 low-profile slot (PCIe x16)
 - 10 iLO Enablement Kit slot (1x iLO Dedicated NIC port)



Overview



Mainboard Internal View:

- 1. Riser board connector
- 2. iLO 5 chip onboard
- 3. One (1) processor and heatsink
- 4. Two (2) DDR4 UDIMM slots

- 5. One (1) internal USB 2.0 Type-A port
- 6. TPM connector
- 7. System fan



Riser Board

8. Riser board – iLO Enablement Kit slot

9. Riser board – Expansion low-profile slot, PCle3 x16



Overview



iLO Enablement Kit

Processor

Intel[®] Xeon[®] E Processor is designed to deliver the best combination of performance, built-in capabilities, and cost-effectiveness. This product also supports Intel[®] Pentium[®] processors.

Choose one of the following processors based on the model:

For more information regarding Intel Xeon processors, please see the following http://www.intel.com/xeon.

Intel Xeon E-2200 Series / 9th Gen Pentium G						
Model	CPU	Cores	L3 Cache	Power	DDR4	SGX
	Frequency					
Xeon E-2224	3.4 GHz	4	8 MB	71W	2666 MT/s	No
Pentium G5420	3.8 GHz	2	4 MB	54W	2400 MT/s	No

Chipset

Intel[®] C242 Chipset For more information regarding Intel[®] chipsets, please see the following URL: <u>http://www.intel.com/products/server/chipsets/</u>

On System Management Chipset

HPE ILO 5 ASIC

Notes:

MicroServer Gen10 Plus does not support remote management/ out-of-band management by default. The MicroServer Gen10 Plus iLO Enablement Kit (P13788-B21) must be installed to activate remote management. Without the iLO Enablement Kit, the server only supports in-band management features.

The iLO Enablement Kit supports below features:

- 1) It acts as an activation key for remote management to the server
- 2) An iLO dedicated NIC port comes with the kit
- 3) The iLO 5 Essentials features are activated upon installing the enablement kit:
 - Email-Based Alerting
 - Integrated Remote Console (IRC/Virtual KVM Supports text and graphics)
 - Virtual Media via Integrated Remote Console

iLO support will follow same warranty term as the server itself.

Read and learn more in the **HPE iLO QuickSpecs**.

Memory

Туре	HPE Standard Memory DDR4 Unbuffered (UDIMM)
DIMM Slots Available	2
Maximum Capacity	32GB (2 x 16GB UDIMM @2666 MT/s) Notes: The maximum memory speed depends on processor model.

Memory Protection

• ECC

Network Controller

Embedded Intel i350 AM41Gb 4-port network controller

The HPE ProLiant MicroServer Gen10 Plus server offers the customer a 4-port NIC standard with the option to upgrade with a variety of networking options.



Expansion Slots

ExpansionSlot #	Technology	Bus Width**	Connector Width	Form Factor	Notes
1	PCle 3.0	x 16	x 16	Low Profile	Supported on the PCIe Riser Board

Storage Controller

The Gen10 controller naming framework has been updated to simplify identification as depicted below. For a more detailed breakout of the available Gen10 Smart Array controllers visit the

HPE Smart Array Gen10 Controllers Data Sheet

Software RAID

• HPE Smart Array S100i SR Gen10 Software RAID

Notes:

- HPE Smart Array S100i SR Gen10 SW RAID will operate in UEFI mode only. For legacy support an additional controller will be needed
- The S100i only supports Windows. For Linux users, HPE offers a solution that uses in-distro open-source software to create a two-disk RAID 1 boot volume. For more information visit: <u>https://downloads.linux.hpe.com/SDR/project/lsrrb/</u>

Essential RAID Controller

• HPE Smart Array E208i-p SR Gen10 Controller

Internal Storage Devices

- Hard Drives None ship standard
- Solid State Drives

None ship standard

Maximum Internal Storage

Non-hot plug SATA

16TB (4 x 4TB) 3.5" SATA HDD 960GB (4x 240GB) 2.5" SATA SSD

Notes: The maximum storage indicated is aligned with the current HDD & SSD option list supported. Maximum internal storage supported would change with the server's option support plan.

Interfaces

Video	1 Rear VGA port
	1 Rear DisplayPort 1.1a
USB 2.0 Type-A Ports	1 total (1 internal)
USB 3.2 Gen1 Type-A	4 total (4 rear)
Ports	
USB 3.2 Gen2 Type-A	2 total (2 front)
Ports	
Network RJ-45	4
(Ethernet)	

Server Power Cords

All pre-configured models ship standard with one or more country-specific 6 ft/1.83m C5 power cords depending on models. If a different power cord is required, please check the **HPE Power Cords and Cables** web page.



Power Supply

• One (1) 180 Watts , non-redundant External Power Adapter

Form Factor

• Ultra Micro Tower

System Fans

• One (1) non-redundant system fan shipped standard

Industry Standard Compliance

- ACPI V6.1 Compliant
- PCIe 3.0 Compliant
- PXE Support
- WOL Support
- EMC Class B
- Microsoft® Logo certifications
- VGA Port
- DP 1.1a
- SMBIOS 3.1
- UEFI 2.6
- Redfish API
- IPMI 2.0
- Advanced Encryption Standard (AES)
- Triple Data Encryption Standard (3DES)
- SNMP v3
- TLS 1.2
- DMTF Systems Management Architecture for Server Hardware Command Line Protocol (SMASH CLP)
- Active Directory v1.0
- ASHRAE A2
- UEFI (Unified Extensible Firmware Interface Forum)
- USB 2.0 Compliant
- USB 3.2 Compliant
- SATA 6Gb/s

Operating Systems and Virtualization Software Support for ProLiant Servers

- <u>Microsoft Windows Server 2016 and 2019</u>
- Red Hat Enterprise Linux (RHEL) 7.6, 7.7, 8.0, 8.1
- VMware ESXi 6.5 U3 and 6.7 U3
- **Notes:** VMware supported only with Intel[®] Xeon[®] E processors, not supported with Intel[®] Pentium[®] processors.
- ClearOS

HPE and ClearCenter will help you lower the cost of building on-premise solutions without sacrificing security and ease of use. HPE ProLiant servers with ClearOS give you a simple, secure, and affordable operating system with an intuitive webbased graphical user interface that provides a cloud-like experience on-premise, and an Application Marketplace with over 100 apps and growing. Whether you're starting out or scaling, you decide what applications you need and pay as you grow. **Notes:** ClearOS allows you to build a fully functional server that is just right for you at no upfront cost. For more information on ClearOS, please visit <u>http://www.hpe.com/servers/clearos</u>.

For more information on Hewlett Packard Enterprise Certified and Supported ProLiant Servers for OS and Virtualization Software and latest listing of software drivers available for your server.

https://www.hpe.com/us/en/servers/server-operating-systems.html.



HPE Server UEFI/Legacy ROM

Unified Extensible Firmware Interface (UEFI) is an industry standard that provides better manageability and more secured configuration than the legacy ROM while interacting with your server at boot time. HPE ProLiant Gen10 servers have a UEFI Class 2 implementation and support both UEFI Mode (default) and Legacy BIOS Mode.

Notes: The UEFI System Utilities function is analogous to the HPE ROM-Based Setup Utility (RBSU) of legacy BIOS. For more information, please visit <u>http://www.hpe.com/servers/uefi</u>.

UEFI enables numerous new capabilities specific to HPE ProLiant servers such as

- Secure Boot and Secure Start enable for enhanced security
- Operating system specific functionality
- Support for > 2.2 TB (using GPT) boot drives
- USB 3.0 Stack
- Embedded UEFI Shell
- Mass Configuration Deployment Tool using iLO RESTful API that is Redfish API Conformant
- PXE boot support for IPv6 networks
- Workload Profiles for simple performance optimization

UEFI Boot Mode only

- TPM 2.0 Support
- iSCSI Software Initiator Support.
- HTTP/HTTPs Boot support as a PXE alternative.
- Boot support for option cards that only support a UEFI option ROM Notes:
 - For UEFI Boot Mode, boot environment and OS image installations should be configured properly to support UEFI.
 - Legacy FIO Setting (758959-B22) can be selected to configure the system in Legacy mode in the factory for your HPEProLiant Gen10 Server.

Embedded Management

HPE Integrated Lights-Out (HPE iLO)

Monitor your servers for ongoing management, service alerting, reporting and remote management with HPE iLO. Learn more at <u>http://www.hpe.com/info/ilo</u>.

Notes: To activate iLO remote management, the MicroServer Gen10 Plus iLO Enablement Kit (P13788-B21) needs to be installed.

Without the MicroServer Gen10 Plus iLO Enablement Kit (P13788-B21), the Embedded Management, Server Utilities and iLO 5 Standard features will only be available for on-premise usage.

UEFI

Configure and boot your servers securely with industry standard Unified Extensible Firmware Interface (UEFI). Learn more at <u>http://www.hpe.com/servers/uefi</u>.

Intelligent Provisioning

Hassle free server and OS provisioning for 1 or few servers with Intelligent Provisioning. Learn more at <u>http://www.hpe.com/servers/intelligentprovisioning</u>.

iLO RESTful API

iLO RESTful API is Redfish API conformance and offers simplified server management automation such as configuration and maintenance tasks based on modern industry standards. Learn more at <u>http://www.hpe.com/info/restfulapi</u>.



Server Utilities

Active Health System

The HPE Active Health System (AHS) is an essential component of the iLO management portfolio that provides continuous, proactive health monitoring of HPE servers. Learn more at <u>http://www.hpe.com/servers/ahs</u>.

Active Health System Viewer

Use the Active Health System Viewer, a web-based portal, to easily read AHS logs and speed problem resolution with HPE self-repair recommendations, to learn more visit: **http://www.hpe.com/servers/ahsv**.

Smart Update

Keep your servers up to date with the HPE Smart Update solution by using Smart Update Manager (SUM) to optimize the firmware and driver updates of the Service Pack for ProLiant (SPP). Learn more at <u>http://www.hpe.com/info/smartupdate</u>.

iLO Amplifier Pack

Designed for large enterprise and service provider environments with hundreds of HPE servers, the iLO Amplifier Pack is a free, downloadable open virtual application (OVA) that delivers the power to discover, inventory and update Gen8, Gen9 and Gen10 HPE servers at unmatched speed and scale. Use with an iLO Advanced License to unlock full capabilities. Learn more at <u>http://www.hpe.com/servers/iLOamplifierpack</u>.

HPE iLO Mobile Application

Enables the ability to access, deploy, and manage your server anytime from anywhere from select smartphones and mobile devices. For additional information please visit: <u>http://www.hpe.com/info/ilo/mobileapp</u>.

RESTful Interface Tool

RESTful Interface tool is a scripting tool to provision using RESTful API for iLO 4 to discover and deploy servers at scale. Learn more at <u>http://www.hpe.com/info/resttool</u>.

Scripting Tools

Provision one to many servers using your own scripts to discover and deploy with Scripting Tool (STK) for Windows and Linux or Scripting Tools for Windows PowerShell.

Learn more at http://www.hpe.com/servers/powershell.

HPE Systems Insight Manager (HPE SIM)

HPE SIM allows you to monitor the health of your HPE ProLiant Servers and HPE Integrity Servers, and also provides you with basic support for non-HPE servers. HPE SIM also integrates with Smart Update Manager to provide quick and seamless firmware updates.

Security

- UEFI Secure Boot and Secure Start support
- Immutable Silicon Root of Trust
- FIPS 140-2 validation
- Common Criteria certification
- Configurable for PCI DSS compliance
- Ability to rollback firmware
- Secure erase of NAND/User data
- TPM (Trusted Platform Module) 2.0 option
- Front bezel lock feature, standard
- Padlock slot, standard
- Kensington Lock slot, standard
- Power cord clip, standard

Warranty

This product is covered by a global limited warranty and supported by HPE Pointnext Services and a worldwide network of Hewlett Packard Enterprise Authorized Channel Partners resellers. Hardware diagnostic support and repair is available for three years from date of purchase. Support for software and initial setup is available for 90 days from date of purchase. Enhancements to warranty services are available through HPE Pointnext operational services or customized service agreements. Hard drives have either a one year or three year warranty; refer to the specific hard drive QuickSpecs for details.

Server Warranty includes 1-Year Parts, 1-Year Labor, 1-Year Onsite support with next business day response. Warranty repairs may be accomplished through the use of Customer Self Repair (CSR) parts. These parts fall into two categories: 1) Mandatory CSR parts are designed for easy replacement. A travel and labor charge will result when customers decline to replace a Mandatory CSR part; 2) Optional CSR parts are also designed for easy replacement but may involve added complexity.

Customers may choose to have Hewlett Packard Enterprise replace Optional CSR parts at no charge. 3) Non CSR parts must be serviced by a trained authorized service engineer. Additional information regarding worldwide limited warranty and technical support is available at: <u>http://h17007.www1.hpe.com/us/en/enterprise/servers/warranty/</u>.

Notes: Warranty does not cover support for ClearOS. Support for ClearOS is provided by ClearCenter.

Optional Features

Server Management

MicroServer Gen10 Plus iLO Enablement Kit

MicroServer Gen10 Plus does not support remote management/ out-of-band management by default. The MicroServer Gen10 Plus iLO Enablement Kit (P13788-B21) must be installed to activate remote management. Without the iLO Enablement Kit, the server only supports in-band management features.

The iLO Enablement Kit supports below features:

- 1) It acts as an activation key for remote management to the server
- 2) An iLO dedicated NIC port comes with the kit
- 3) The iLO 5 Essentials features are activated upon installing the enablement kit:
 - Email-Based Alerting
 - Integrated Remote Console (IRC/Virtual KVM Supports text and graphics)
 - Virtual Media via Integrated Remote Console

iLO support will follow same warranty term as the server itself.

iLO Advanced

HPE iLO Advanced licenses offer smart remote functionality without compromise, for all HPE ProLiant servers. The license includes the full integrated remote console, virtual keyboard, video, and mouse (KVM), multi-user collaboration, console record and replay, and GUI-based and scripted virtual media and virtual folders. You can also activate the enhanced security and power management functionality.

HPE InfoSight for Servers

HPE InfoSight for Servers combines the cloud-based machine learning of InfoSight with the health and performance monitoring of Active Health System (AHS) and iLO to optimize performance and predict and prevent problems. The end result is an intelligent environment that modernizes IT operations and enhances the support experience by predicting and preventing the infrastructure issues that lead to application disruptions, wasted IT staff time and missed business opportunities.

Learn more at https://www.hpe.com/servers/infosight

One Config Simple (SCE)

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 products not available in SCE, please contact Hewlett Packard Enterprise Customer Business Center or an Authorized Partner for assistance. <u>http://ocs.ext.hpe.com/.</u>

Service and Support

HPE Pointnext Services

Protect your business beyond warranty with HPE Pointnext Operational Service

Get the expertise you need at every step of your IT journey with HPE Pointnext Services. We help you lower your risks and costs using proven best practices, automation and methodologies that have been tested and refined by Hewlett Packard Enterprise experts through thousands of deployments globally. Our Professional and Operational Services can be leveraged to speed up time-to-production, boost performance and accelerate your business. HPE Pointnext specializes in flawless and on-time implementation, on-budget execution, and creative configurations that get the most out of software and hardware alike.

Connect your devices:

Unlock all of the benefits of your technology investment by connecting your products to Hewlett Packard Enterprise. Reduce down time, increase diagnostic accuracy and have 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. Learn more about getting connected at <u>http://www.hpe.com/services/getconnected</u>.

Recommended Services

Basic: HPE Foundation Care NBD, three-year Support Service

HPE Foundation Care Next Business Day connects you to Hewlett Packard Enterprise during business hours for assistance on resolving issues – This service features need based next business day hardware onsite response and software call back within two hours. In addition, Collaborative software support and provides troubleshooting assistance on industry leading software running on your HPE server. Simplify your support experience and make Hewlett Packard Enterprise your first call to help resolve hardware or software problems. https://www.hpe.com/h20195/V2/GetDocument.aspx?docname=4AA4-8876ENW&cc=us&lc=en

Standard: HPE Foundation Care 24x7, three-year Support Service

HPE Foundation Care 24x7 gives you access to Hewlett Packard Enterprise 24 hours a day, seven days a week for assistance on resolving issues. This service includes need based Hardware onsite response within four hours. In addition, collaborative software support is included in this service that provides troubleshooting assistance on industry leading software running on your HPE server.

Simplify your support experience and make Hewlett Packard Enterprise your first call to help resolve hardware or software problems. https://www.hpe.com/h20195/V2/GetDocument.aspx?docname=4AA4-8876ENW&cc=us&lc=en

Optimized: HPE Proactive Care* with FC 5Y 24X7 coverage Support Service

HPE Proactive Care gives customers an enhanced call experience. When your products are connected to Hewlett Packard Enterprise, Proactive Care helps prevent problems and maintains IT stability by utilizing personalized proactive reports with recommendations and advice. This service combines five years of Hardware Support where a Hewlett Packard Enterprise authorized representative will arrive at the Customer's site during the onsite coverage window to begin hardware maintenance service the next coverage day after the service request has been logged. This service also includes collaborative software support for Independent Software Vendors (ISVs), (Red Hat, VMWare, Microsoft, etc.)

running on your HPE servers.https://www.hpe.com/h20195/v2/GetPDF.aspx/4AA3-8855ENW.pdf

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

Other related Services

HPE Server Hardware Installation

Provides for the basic hardware installation of HPE branded servers, storage devices and networking options to assist you in bringing

your new hardware into operation in a timely and professional manner

https://www.hpe.com/h20195/V2/GetPDF.aspx/5981-9356ENW.pdf

HPE Installation and Startup Service

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

Notes: HPE Startup services does not include support for ClearOS. ClearOS is supported by ClearCenter.

HPE Service Credits

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

HPE Education Services

Keep your IT staff trained making sure they have the right skills to deliver on your business outcomes. Book on a class today and learn how to get the most from your technology investment .<u>http://www.hpe.com/ww/learn</u>

HPE Support Center

The HPE Support Center is a personalized online support portal with access to information, tools and experts to support Hewlett Packard Enterprise business products. Submit support cases online, chat with HPE experts, access support resources or collaborate with peers. Learn more **http://www.hpe.com/support/hpesc.**

The HPE Support Center Mobile App* allows you to resolve issues yourself or quickly connect to an agent for live support. Now, you can get access to personalized IT support anywhere, anytime. HPE Insight Remote Support and HPE Support Center are available at no additional cost with a HPE warranty, HPE Support Service or HPE contractual support agreement.

- *HPE Support Center Mobile App is subject to local availability. For more information: <u>http://www.hpe.com/services.</u>
- HPE ProLiant MicroServer Gen10 Plus Server is covered under the HPE Service Contract applied to the HPE ProLiant Server. No separate HPE support services need to be purchased.

Warranty and Support Services will extend to include HPE options configured with your server or storage device. The price of support service is not impacted by configuration details. HPE sourced options that are compatible with your product will be covered under your server support at the same level of coverage allowing you to upgrade freely. Installation for HPE options is available as needed. To keep support costs low for everyone, some high value options will require additional support. Additional support is only required on select high value workload accelerators, fibre switches, InfiniBand and UPS batteries over 12KVA.

Parts and Materials

Hewlett Packard Enterprise will provide HPE-supported replacement parts and materials necessary to maintain the covered hardware product in operating condition, including parts and materials for available and recommended engineering improvements. Parts and components that have reached their maximum supported lifetime and/or the maximum usage limitations as set forth in the manufacturer's operating manual, product quick-specs, or the technical product data sheet will not be provided, repaired, or replaced as part of these services.

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

Pre-configured Models

Pre-configured models ship with the configurations below. Options can be selected from the Core or Additional options section of this QuickSpecs.

Hewlett Packard Enterprise does not allow factory integration of options into pre-configured models. Any additional options purchased will be shipped separately.

Entry Models	
SKU Number	P16005-xxx
Model Name	HPE ProLiant MicroServer Gen10 Plus G5420 3.8GHz 2-core 8GB-U S100i 4LFF-NHP 180W External PS Server
Processor	Intel® Pentium® G5420 (2-Core, 3.8 GHz, 54W)
Memory	8 GB UDIMM DDR4 2666 MT/s (1x 8 GB) Notes: Total of 2 DIMM slots. With G5420 processor, memory speed supports up to 2400 MT/s
Network Controller	Embedded 1Gb 4-Port Intel i350-AM4 Controller
Storage Controller	Embedded S100i SW RAID
Hard Drive	None ship as standard
Internal Storage	4 LFF NHP SATA HDD cage
Optical Drive Bay	N/A
PCI-Express Slots	1 standard (Low Profile) PCIe 3.0
Power Supply	(1) 180W External Power Adapter, Non-Redundant Power Supply
Fans	(1) A non-redundant system fan ships standard
Operating System	None ship as standard
Form Factor	Ultra Micro Tower
Warranty	Server Warranty includes 1-Year Parts, 1-Year Labor, 1-Year Onsite support with next business day response

Pre-configured Models

Performance Models			
SKU Number	P16006-xxx	P18584-xxx	P19752-371(AP only)
Model Name	HPE ProLiant MicroServer	HPE ProLiant MicroServer	HPE ProLiant MicroServer
	Gen10 Plus E-2224 3.4GHz 4-	Gen10 Plus E-2224 3.4GHz 4-	Gen10 Plus E-2224 3.4GHz 4-
	core S100i 4LFF-NHP 180W	core S100i 4LFF-NHP 1TB	core S100i 4LFF-NHP 180W
	External PS Server	180W External PS Server	External PS Server
Processor	Intel® Xeon® E-2224	Intel® Xeon® E-2224	Intel® Xeon® E-2224
	(4-Core, 3.4 GHz, 71W)	(4-Core, 3.4 GHz, 71W)	(4-Core, 3.4 GHz, 71W)
Memory	16 GB UDIMM DDR4	16 GB UDIMM DDR4	8 GB UDIMM DDR4
	2666 MT/s (1x 16GB)	2666 MT/s (1x 16GB)	2666 MT/s (1x 8GB)
	Notes: Total of 2 DIMM slots.	Notes: Total of 2 DIMM slots.	Notes: Total of 2 DIMM slots.
	With E-2224 processor,	With E-2224 processor,	With E-2224 processor,
	memory speed supports up to	memory speed supports up to	memory speed supports up to
	2666 MT/s	2666 MT/s	2666 MT/s
Network Controller	Embedded 1Gb 4-Port Intel	Embedded 1Gb 4-Port Intel	Embedded 1Gb 4-Port Intel
	i350-AM4 Controller	i350-AM4 Controller	i350-AM4 Controller
Storage Controller	Embedded S100i SW RAID	Embedded S100i SW RAID	Embedded S100i SW RAID
Hard Drive	None ship as standard	1TB SATA 6G Entry 7.2K LFF RW HDD	None ship as standard
Internal Storage	4 LFF NHP SATA HDD cage	4 LFF NHP SATA HDD cage	4 LFF NHP SATA HDD cage
Optical Drive Bay	N/A	N/A	N/A
PCI-Express Slots	1 standard (Low Profile) PCIe	1 standard (Low Profile) PCIe	1 standard (Low Profile) PCIe
	3.0	3.0	3.0
Power Supply	(1) 180W External Power	(1) 180W External Power	(1) 180W External Power
	Adapter,	Adapter,	Adapter,
	Non-Redundant Power Supply	Non-Redundant Power Supply	Non-Redundant Power Supply
Fans	(1) A non-redundant system	(1) A non-redundant system	(1) A non-redundant system
	fan ships standard	fan ships standard	fan ships standard
Operating System	None ship as standard	None ship as standard	None ship as standard
Form Factor	Ultra Micro Tower	Ultra Micro Tower	Ultra Micro Tower
Warranty	Server Warranty includes 1-	Server Warranty includes 1-	Server Warranty includes 1-
	Year Parts, 1-Year Labor, 1-	Year Parts, 1-Year Labor, 1-	Year Parts, 1-Year Labor, 1-
	Year Onsite support with next	Year Onsite support with next	Year Onsite support with next
	business day response	business day response	business day response

Country Code Key

XXX = 001 AMS XXX = 421 EMEA XXX = 371 AP XXX = 291 Japan XXX = AA1 PRC **Notes:** Not all models are available in all regions. Check with your local country Hewlett Packard Enterprise offices for availability.

Core Options

HPE Unique Ontions

HPE Unique Options	
HPE MicroServer Gen10 Plus iLO Enablement Kit	P13788-B21
Notes: This kit plugs to the iLO Enablement Kit slot on the riser board. This kit provides several	
functionalities:	
1) It acts as an activation key for remote management to the server	
 An iLO dedicated NIC port comes with the kit The iLO 5 Essentials features are activated upon installing the enablement kit: 	
- Email-Based Alerting	
- Integrated Remote Console (IRC/Virtual KVM – Supports text and graphics)	
- Virtual Media via Integrated Remote Console	
When the iLO Enablement Kit is integrated, NIC port 1 can be configured as an iLO shared NIC port.	
HPE MicroServer Gen10 SFF NHP SATA Converter Kit	870213-B21
Notes: This kit works to accommodate your SFF NHP SSD into the LFF NHP drive cage.	
HPE Memory	
Unbuffered with ECC DIMMs (UDIMMs)	
HPE 8GB (1x8GB) Single Rank x8 DDR4-2666 CAS-19-19-19 Unbuffered Standard Memory Kit	879505-B21
HPE 16GB (1x16GB) Dual Rank x8 DDR4-2666 CAS-19-19-19 Unbuffered Standard Memory Kit	879507-B21
Notes: Running at 2400 MT/s with Intel Pentium® G families due to processor limitation.	
HPE Hard Drives	
6G SATA Non-Hot Plug LFF (3.5-inch) Standard (MDL) Drives	
HPE 1TB SATA 6G Midline 7.2K LFF (3.5in) RW 1yr Wty HDD	801882-B21
HPE 4TB SATA 6G Midline 7.2K LFF (3.5in) RW 1yr Wty HDD	801888-B21
6G SATA Non-Hot Plug LFF (3.5-inch) ETY HDD	
HPE 1TB SATA 6G Entry 7.2K LFF (3.5in) RW 1yr Wty HDD	843266-B21
Notes: Please see the HPE Hard Drives QuickSpecs for Technical Specifications and additional informatio	
HPE Solid State Drives	
HPE 240GB SATA 6G Read Intensive SFF (2.5in) RW 3yr Wty Digitally Signed Firmware SSD	P09685-B21
Notes: To accommodate an SSD, HPE MicroServer Gen10 SFF NHP SATA Converter Kit (8702132-B21) r	
HPE Networking	
HPE Ethernet 1Gb 4-port BASE-T I350-T4 Adapter	P21106-B21
HPE Ethernet 10Gb 2-port BASE-T QL41132HLRJ Adapter	P08437-B21
HPE Ethernet 10Gb 2-port SFP+ MCX4121A-XCHT Adapter	P21930-B21

Additional Options

Embedded Management

HPE iLO Advanced

HPE iLO Advanced 1-server License with 1yr Support on iLO Licensed Features	512485-B21
HPE iLO Advanced Flexible Quantity License with 1yr Support on iLO Licensed Features	512486-B21
HPE iLO Advanced AKA Tracking License with 1yr Support on iLO Licensed Features	512487-B21
HPE iLO Advanced Electronic License with 1yr Support on iLO Licensed Features	E6U59ABE
HPE iLO Advanced Electronic License with 3yr Support on iLO Licensed Features	E6U64ABE
HPE iLO Advanced 1-server License with 3yr Support on iLO Licensed Features	BD505A
HPE iLO Advanced Flexible Quantity License with 3yr Support on iLO Licensed Features	BD506A
HPE iLO Advanced AKA Tracking License with 3yr Support on iLO Licensed Features	BD507A

HPE Security

HPE Trusted Platform Module 2.0 Gen10 Option

Notes:

- HPE Trusted Platform Module 2.0 option works with Gen10 servers with UEFI Mode not Legacy Mode. It is not compatible with HPE ProLiant Gen8 servers or earlier generation variants.
- HPE server systems can have a TPM module (of any type) installed only once. It cannot be replaced with any other TPM module.
- 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 Smart Array Controllers

The Gen10 controller naming framework has been updated to simplify identification as depicted below. For a more detailed breakout of the available Gen10 Smart Array controllers visit the **HPE Smart Array Gen10 Controllers Data Sheet**.



Essential RAID Controllers

HPE Smart Array E208i-p SR Gen10 (8 Internal Lanes/No Cache) 12G SAS PCIe Plug-in Controller

804394-B21

864279-B21

HPE Disk Backup

For the complete range of RDX drives and media see:

https://www.hpe.com/us/en/product-catalog/storage/disk-based-backup-systems.html.

For hardware and software compatibility of HPE disk backup products see: http://www.hpe.com/storage/spock.

Please see the **HPE RDX Removable Disk Backup System QuickSpecs** for additional part numbers, technical specifications, and additional information.

HPE RDX 500GB Removable Disk Cartridge	Q2042A
HPE RDX 1TB Removable Disk Cartridge	Q2044A
HPE RDX 2TB Removable Disk Cartridge	Q2046A
HPE RDX 3TB Removable Disk Cartridge	Q2047A
HPE RDX 4TB Removable Disk Cartridge	Q2048A



Additional Options

HPE RDX 1TB External Disk Backup System	B7B69B
HPE RDX 2TB External Disk Backup System	E7X53B
HPE RDX 4TB External Disk Backup System	Q2R33A
HPE RDX External Docking Station	C8S07B

HPE USB Options

HPE 32GB microSD RAID 1 USB Boot DriveP21868-B21HPE Optical Drives701498-B21HPE Mobile USB DVD-RW Optical Drive701498-B21HPE USB Keyboard and Mouse631341-B21HPE USB Keyboard/Mouse Kit631341-B21HPE USB JV Keyboard/Mouse Kit631360-B21HPE USB NTL Keyboard/Mouse Kit672097-373HPE USB NTL Keyboard/Mouse Kit672097-383HPE USB NTL Keyboard/Mouse Kit631344-B21HPE USB Keyboard/Mouse Kit631344-B21HPE USB Keyboard/Mouse Kit631344-B21HPE USB Keyboard/Mouse Kit631346-B21HPE USB E Keyboard/Mouse Kit631346-B21HPE USB E Keyboard/Mouse Kit631346-B21HPE USB E Keyboard/Mouse Kit631364-B21HPE USB E Keyboard/Mouse Kit631364-B21HPE USB C Keyboard/Mouse Kit631364-B21HPE USB C Keyboard/Mouse Kit631364-B21HPE USB C Keyboard/Mouse Kit631364-B21HPE USB A E Keyboard/Mouse Kit63207-103HPE USB A E Keyboard/Mouse Kit63207-103HPE USB C Keyboard/Mouse Kit672097-103HPE USB C Keyboard/Mouse Kit672097-103HPE USB T	HPE Enterprise Mainstream Flash Media Kits for Memory Cards	
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HPE USB IN Keyboard/Mouse Kit672097-D63	HPE USB CZ Keyboard/Mouse Kit	672097-223
	HPE USB FI Keyboard/Mouse Kit	672097-353
HPE USB KR Keyboard/Mouse Kit672097-KD3	HPE USB IN Keyboard/Mouse Kit	672097-D63
	HPE USB KR Keyboard/Mouse Kit	672097-KD3

Memory

HPE ProLiant MicroServer Generation 10 Plus

32GB of maximum memory is available with the installation of 2 x 16 GB UDIMM Memory kits.



Maximum Memory

Memory Population						
Memory		Slot 2A	Slot 1B			
Standard	8 GB	8 GB	Empty			
	16 GB	16 GB	Empty			
Optional	16 GB	8 GB	8 GB			
Maximum	32 GB	16 GB	16 GB			

General Memory Population Rules and Guidelines:

- The HPE ProLiant MicroServer Gen10 Plus Server has two memory slots.
- Only ECC UDIMMs are supported on MicroServer Gen10 Plus. No support for non-ECC UDIMMs.
- Memory speed support depends on the type of processor installed. For more information, see the technical specification of the installed processor.
- The server supports up to 2666 MT/s ECC UDIMMs (Unbuffered DIMMS).
- The server supports up to 32 GB (2 x 16 GB) UDIMMs.
- The server does not support Non-ECC UDIMMs, RDIMMs, and LRDIMMs
- Populate the DIMM on slots in this sequence: 2-A, 1-B
- Always use HPE qualified DIMMs.

Storage



1-4 Four (4) non-hot plug drive bays

Drive Support				
Drive	Quantity Supported	Position Supported	Controller	
NHP SATA SSD	4	1-4	S100i or E208i-p SR	
NHP SATA HDD	4	1-4	S100i or E208i-p SR	

Technical Specifications

System Unit

Dimensions

- **(H x W x D)** (with feet)
 - 4.68 x 9.65 x 9.65 in (11.89 x 24.5 x 24.5 cm)

Weight (approximate)

- **Maximum** (Four drives, two DIMMs, Expansion board + iLO Enablement Kit) 15.87 lb (7.2 kg)
- **Minimum** (One DIMM installed, no drive, expansion board, iLO Enablement Kit) 9.33 lb (4.23 kg)

Input Requirements (per power supply)

- Rated Line Voltage 100 V AC to 240 V AC
- Rated Input Current 2.5 A (at 90 V AC)
- Rated Input Frequency 50 to 60 Hz
- Rated Input Power 180W Power Supply

Power Specifications

To review typical system power ratings use the Power Advisor which is available via the online tool located at URL: <u>https://www.hpe.com/us/en/integrated-systems/rack-power-cooling.html</u>

Power Supply Output (per power supply)

- Rated Steady-State Power 180 W Power Supply 180 W (at 100 VAC) 180 W (at 200 VAC)
- Maximum Peak Power
- 180 W Power Supply
 180 W (at 100 VAC)
 180 W (at 200 VAC)

Relative Humidity (non-condensing)

- Operating 10% to 90% - Relative humidity (Rh), 28°C 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).

Technical Specifications

System Inlet Temperature

• Standard Operating Support

10° to 35°C (50° to 95°F) at sea level with an altitude derating of 1.0°C per every 305 m (1.8°F per every 1000 ft) above sea level to a maximum of 3050 m (10,000 ft), no direct sustained sunlight. Maximum rate of change is 20°C/hr (36°F/hr). The upper limit and rate of change may be limited by the type and number of options installed. System performance during standard operating support may be reduced if operating above 30°C (86°F).

Extended Ambient Operating Support

For approved hardware configurations, the supported system inlet range is to be: 5° to 10°C (41° to 50°F) and 35° to 40°C (95° to 104°F) at sea level with an altitude derating of 1.0°C per every 175 m (1.8°F per every 574 ft) above 900 m (2953 ft) to a maximum of 3050 m (10,000 ft). The approved hardware configurations for this system are listed at the

URL:http://www.hpe.com/servers/ashrae

For approved hardware configurations, the supported system inlet range is to be: 40° to 45°C (104° to 113°F) at sea level with an altitude derating of 1.0°C per every 125 m (1.8°F per every 410 ft) above 900 m (2953 ft) to a maximum of 3050 m (10,000 ft). The approved hardware configurations for this system are listed at

the URL:http://www.hpe.com/servers/ashrae

System performance may be reduced if operating in the ambient operating range.

Non-operating

-30°C to 60°C (-22°F to 140°F) Maximum rate of change is 20°C/hr (36°F/hr).

Acoustic Noise

Listed are the declared A-Weighted sound power levels (LWAd) and declared average bystander position A-Weighted sound pressure levels (LpAm) when the product is operating in a 23°C ambient environment. Noise emissions were measured in accordance with ISO 7779 (ECMA 74) and declared in accordance with ISO 9296 (ECMA 109). The listed sound levels apply to standard shipping configurations. Additional options may result in increased sound levels. Please have your HPE representative provide information from the HPE EMESC website for further technical details regarding the configurations listed below.

Idle			
LWAd	3.6 Bels (Entry)		
	3.6 Bels (Performance)		
LpAm	21 dBA (Entry)		
	21 dBA (Performance)		
Operating			
LWAd	3.6 Bels (Entry)		
	3.6 Bels (Performance)		
LpAm	21 dBA (Entry)		
	21 dBA (Performance)		

Notes:

- The listed sound levels apply to listed configurations. Additional options may result in increased sound levels. Please have your HPE Rep. refer to EMESC website for further technical details regarding the configurations listed above.
- Acoustics levels presented here accounts for test configuration only and acoustics level will vary depending on system configuration
- Values are subject to change without notification and are for reference only.

Technical Specifications

Emissions Classification (EMC)

- FCC Rating
 Class B
- Normative Standards
 CISPR32, EN55032, EN55024
 FCC CFR 47, Pt15; ICES-003; CNS13438; GB9254
 K32; K24; EN61000-3-2;
 EN61000-3-3;

Notes: 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.

Environment-friendly Products and Approach End-of-life Management and Recycling

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

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

Summary of Changes

Date	Version History	Action	Description of Change
01-Jun-2020	Version 3	Changed	Overview and Standard Features sections were updated.
24-Feb-2020	Version 2	Changed	Overview, Standard Features, Optional Features and Core Options sections were updated.
03-Feb-2020	Version 1	New	New QuickSpecs.

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

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