RETIRED: This document has been officially retired, and the base products listed herein are now considered obsolete and are no longer available for sale. Consequently, the information contained within may no longer be current. This document is provided exclusively for reference and informational purposes.

Overview

Shape the Future of QuickSpecs – Your Input Matters

HPE ProLiant MicroServer Gen10 Plus

HPE ProLiant MicroServer Gen10 Plus delivers an affordable compact yet powerful entry level server that you can customize for on-premises, 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.



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



Front View (Internal):

1. Four (4) LFF NHP SATA HDD cage
2. Hard drive screws
3. USB 3.2 Gen2 Type-A ports

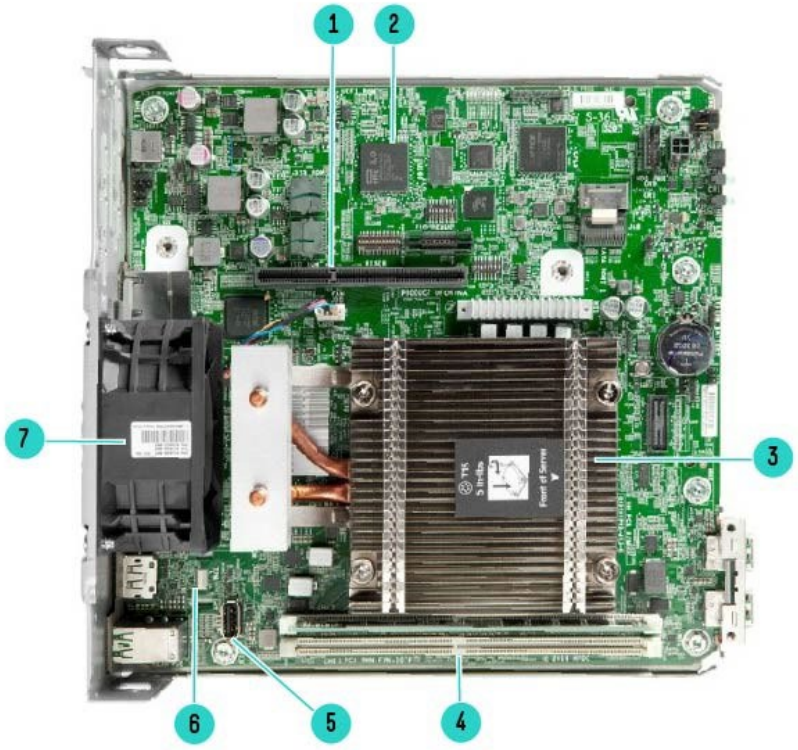


Rear View:

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

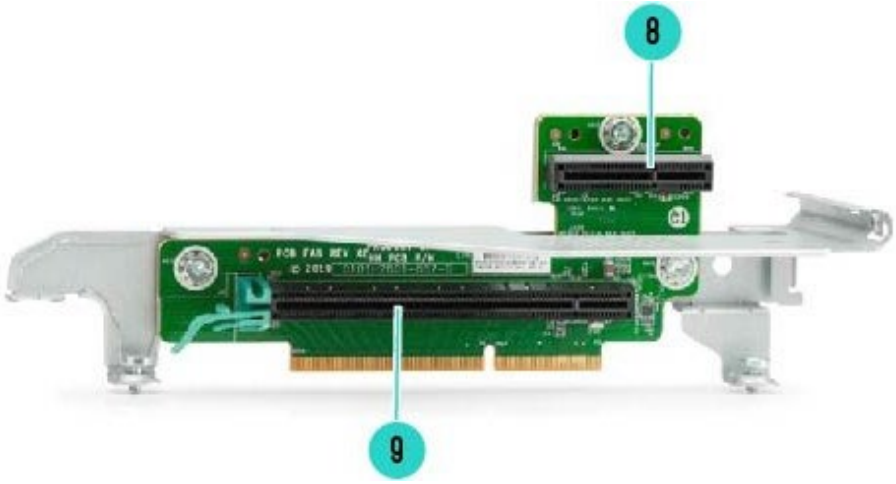
Overview



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, PCIe3 x16

Overview



iLO Enablement Kit

Standard Features

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 Frequency**	**Cores**	**L3 Cache**	**Power**	**DDR4**	**SGX**
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: **http://www.intel.com/products/server/chipsets/**

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:
    - 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
- iLO support will follow same warranty term as the server itself.
- Read and learn more in the **HPE iLO QuickSpecs**.

Memory

Type	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.

Standard Features

Expansion Slots

ExpansionSlot #	Technology	Bus Width**	Connector Width	Form Factor	Notes
1	PCIe 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: **https://downloads.linux.hpe.com/SDR/project/lsrrb/**

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 Ports	4 total (4 rear)
USB 3.2 Gen2 Type-A Ports	2 total (2 front)
Network RJ-45 (Ethernet)	4

Notes: If you connect two display devices to the VGA port and DisplayPort, the same image is shown on both devices-screen mirroring mode. The embedded video controller in the iLO 5 chipset does not support dual display or screen extension mode.

Standard Features

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 HPE Servers

HPE servers are designed for seamless integration with partner Operating Systems and Virtualization Software. By collaborating closely with our partners, we ensure that their products are optimized, certified, and fully supported within your HPE server environment.

Access the certified and supported servers for each of the OS and Virtualization software: **HPE Servers Support & Certification Matrices**

Standard Features

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 **http://www.hpe.com/servers/uefi**.

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 **http://www.hpe.com/info/ilo**.

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 **http://www.hpe.com/servers/uefi**.

Intelligent Provisioning

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

Standard Features

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 **http://www.hpe.com/info/restfulapi**.

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 **http://www.hpe.com/servers/ahs**.

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 **http://www.hpe.com/info/smartupdate**.

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 **http://www.hpe.com/servers/iLOamplifierpack**.

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: **http://www.hpe.com/info/ilo/mobileapp**.

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 **http://www.hpe.com/info/resttool**.

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

Standard Features

- 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 Services 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 Services 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:
https://www.hpe.com/us/en/search-results.html?page=1&q=servers%20warranty&autocomplete=0

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 Compute Ops Management

Transform compute lifecycle management with a cloud experience that delivers greater simplicity, agility, and speed across your entire server environment, wherever it lives. This software-as-a-service tool provides a dashboard with global visibility and intuitive management of server health, security and compliance status to help you easily identify areas that need immediate attention. Users can update tens to thousands of servers faster through intelligent delta-based firmware downloads and on-demand HPE iLO firmware updates.

HPE Compute Ops Management is cloud-native software that is continually updated with new services, features, patches, and firmware packs. The management application resides in HPE GreenLake cloud (access via **https://common.cloud.hpe.com)** and leverages the HPE GreenLake architecture, security, and unified operations.
For a complete list of software as-a-service subscription SKUs and more information, visit the HPE Compute Ops Management QuickSpecs: **https://www.hpe.com/psnow/doc/a50004263enw**
For information on supported HPE servers, the complete list can be found here: **https://www.hpe.com/info/com-supported-servers**

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. **http://ocs.ext.hpe.com/.**

Service and Support

HPE Services

No matter where you are in your digital transformation journey, you can count on HPE Services to deliver the expertise you need when, where and how you need it. From planning to deployment, ongoing operations and beyond, our experts can help you realize your digital ambitions.

https://www.hpe.com/services

Consulting Services

No matter where you are in your journey to hybrid cloud, experts can help you map out your next steps. From determining what workloads should live where, to handling governance and compliance, to managing costs, our experts can help you optimize your operations.

https://www.hpe.com/services/consulting

HPE Managed Services

HPE runs your IT operations, providing services that monitor, operate, and optimize your infrastructure and applications, delivered consistently and globally to give you unified control and let you focus on innovation.

HPE Managed Services | HPE

Operational services

Optimize your entire IT environment and drive innovation. Manage day-to-day IT operational tasks while freeing up valuable time and resources. Meet service-level targets and business objectives with features designed to drive better business outcomes.

https://www.hpe.com/services/operational

HPE Complete Care Service

HPE Complete Care Service is a modular, edge-to-cloud IT environment service designed to help optimize your entire IT environment and achieve agreed upon IT outcomes and business goals through a personalized experience. All delivered by an assigned team of HPE Services experts. HPE Complete Care Service provides:

- A complete coverage approach -- edge to cloud
- An assigned HPE team
- Modular and fully personalized engagement
- Enhanced Incident Management experience with priority access
- Digitally enabled and AI driven customer experience

https://www.hpe.com/services/completecare

HPE Tech Care Service

HPE Tech Care Service is the operational support service experience for HPE products. The service goes beyond traditional support by providing access to product specific experts, an AI driven digital experience, and general technical guidance to not only reduce risk but constantly search for ways to do things better. HPE Tech Care Service delivers a customer-centric, AI driven, and digitally enabled customer experience to move your business forward. HPE Tech Care Service is available in three response levels. Basic, which provides 9x5 business hour availability and a 2-hour response time. Essential which provides a 15-minute response time 24x7 for most enterprise level customers, and Critical which includes a 6-hour repair commitment where available and outage management response for severity 1 incidents.

https://www.hpe.com/services/techcare

Service and Support

HPE Lifecycle Services

HPE Lifecycle Services provide a variety of options to help maintain your HPE systems and solutions at all stages of the product lifecycle. A few popular examples include:

- Lifecycle Install and Startup Services: Various levels for physical installation and power on, remote access setup, installation and startup, and enhanced installation services with the operating system.
- HPE Firmware Update Analysis Service: Recommendations for firmware revision levels for selected HPE products, taking into account the relevant revision dependencies within your IT environment.
- HPE Firmware Update Implementation Service: Implementation of firmware updates for selected HPE server, storage, and solution products, taking into account the relevant revision dependencies within your IT environment.
- Implementation assistance services: Highly trained technical service specialists to assist you with a variety of activities, ranging from design, implementation, and platform deployment to consolidation, migration, project management, and onsite technical forums.
- HPE Service Credits: Access to prepaid services for flexibility to choose from a variety of specialized service activities, including assessments, performance maintenance reviews, firmware management, professional services, and operational best practices.

Notes: To review the list of Lifecycle Services available for your product go to:
https://www.hpe.com/services/lifecycle

For a list of the most frequently purchased services using service credits, see the **HPE Service Credits Menu**

Other Related Services from HPE Services:

HPE Education Services

Training and certification designed for IT and business professionals across all industries. Broad catalogue of course offerings to expand skills and proficiencies in topics ranging from cloud and cybersecurity to AI and DevOps. Create learning paths to expand proficiency in a specific subject. Schedule training in a way that works best for your business with flexible continuous learning options.
https://www.hpe.com/services/training

Defective Media Retention

An option available with HPE Complete Care Service and HPE Tech Care Service and applies only to Disk or eligible SSD/Flash Drives replaced by HPE due to malfunction.

Consult your HPE Sales Representative or Authorized Channel Partner of choice for any additional questions and services options.

Parts and Materials

HPE will provide HPE-supported replacement parts and materials necessary to maintain the covered hardware product in operating condition, including parts and materials for available and recommended engineering improvements.

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

How to Purchase Services

Services are sold by Hewlett Packard Enterprise and Hewlett Packard Enterprise Authorized Service Partners:

- Services for customers purchasing from HPE or an enterprise reseller are quoted using HPE order configuration tools.
- Customers purchasing from a commercial reseller can find services at **https://ssc.hpe.com/portal/site/ssc/**

Service and Support

AI Powered and Digitally Enabled Support Experience

Achieve faster time to resolution with access to product-specific resources and expertise through a digital and data driven customer experience

Sign into the HPE Support Center experience, featuring streamlined self-serve case creation and management capabilities with inline knowledge recommendations. You will also find personalized task alerts and powerful troubleshooting support through an intelligent virtual agent with seamless transition when needed to a live support agent.
https://support.hpe.com/hpesc/public/home/signin

Consume IT On Your Terms

HPE GreenLake edge-to-cloud platform brings the cloud experience directly to your apps and data wherever they are—the edge, colocations, or your data center. It delivers cloud services for on-premises IT infrastructure specifically tailored to your most demanding workloads. With a pay-per-use, scalable, point-and-click self-service experience that is managed for you, HPE GreenLake edge-to-cloud platform accelerates digital transformation in a distributed, edge-to-cloud world.

- Get faster time to market
- Save on TCO, align costs to business
- Scale quickly, meet unpredictable demand
- Simplify IT operations across your data centers and clouds

To learn more about HPE Services, please contact your Hewlett Packard Enterprise sales representative or Hewlett Packard Enterprise Authorized Channel Partner. Contact information for a representative in your area can be found at "Contact HPE"
https://www.hpe.com/us/en/contact-hpe.html

For more information
http://www.hpe.com/services

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	P16005-001 P16005-291 P16005-371 P16005-421 P16005-AA1
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	P16006-001 P16006-291 P16006-371 P16006-421	P18584-001 P18584-421	P19752-371
Model Name	HPE ProLiant MicroServer Gen10 Plus E-2224 3.4GHz 4-core S100i 4LFF-NHP 180W External PS Server	HPE ProLiant MicroServer Gen10 Plus E-2224 3.4GHz 4-core S100i 4LFF-NHP 1TB 180W External PS Server	HPE ProLiant MicroServer Gen10 Plus E-2224 3.4GHz 4-core S100i 4LFF-NHP 180W External PS Server
Processor	Intel® Xeon® E-2224 (4-Core, 3.4 GHz, 71W)	Intel® Xeon® E-2224 (4-Core, 3.4 GHz, 71W)	Intel® Xeon® E-2224 (4-Core, 3.4 GHz, 71W)
Memory	16 GB UDIMM DDR4 2666 MT/s (1x 16GB) **Notes:** Total of 2 DIMM slots. With E-2224 processor, memory speed supports up to 2666 MT/s	16 GB UDIMM DDR4 2666 MT/s (1x 16GB) **Notes:** Total of 2 DIMM slots. With E-2224 processor, memory speed supports up to 2666 MT/s	8 GB UDIMM DDR4 2666 MT/s (1x 8GB) **Notes:** Total of 2 DIMM slots. With E-2224 processor, memory speed supports up to 2666 MT/s
Network Controller	Embedded 1Gb 4-Port Intel i350-AM4 Controller	Embedded 1Gb 4-Port Intel i350-AM4 Controller	Embedded 1Gb 4-Port Intel 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 3.0	1 standard (Low Profile) PCIe 3.0	1 standard (Low Profile) PCIe 3.0
Power Supply	(1) 180W External Power Adapter, Non-Redundant Power Supply	(1) 180W External Power Adapter, Non-Redundant Power Supply	(1) 180W External Power Adapter, Non-Redundant Power Supply
Fans	(1) A non-redundant system fan ships standard	(1) A non-redundant system fan ships standard	(1) A non-redundant system 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-Year Parts, 1-Year Labor, 1-Year Onsite support with next business day response	Server Warranty includes 1-Year Parts, 1-Year Labor, 1-Year Onsite support with next business day response	Server Warranty includes 1-Year Parts, 1-Year Labor, 1-Year Onsite support with next business day response

Country Code Key
XXX = 001 AMS
XXX = 421 EMEA
XXX = 371 AP
XXX = 291 Japan
XXX = AA1 PRC

Core Options

HPE Hard Drives

6G SATA Non-Hot Plug LFF (3.5-inch) Standard (MDL) Drives

HPE 1TB SATA 6G Business Critical 7.2K LFF RW 1-year Warranty Multi Vendor HDD	801882-B21
HPE 4TB SATA 6G Business Critical 7.2K LFF RW 1-year Warranty Multi Vendor HDD	801888-B21

6G SATA Non-Hot Plug LFF (3.5-inch) ETY HDD

Notes: Please see the **HPE Hard Drives QuickSpecs** for Technical Specifications and additional information.

HPE Networking

Intel I350-T4 Ethernet 1Gb 4-port BASE-T Adapter for HPE	P21106-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 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 AKA Tracking License with 3yr Support on iLO Licensed Features	BD507A

Software as a Service Management

HPE Compute Ops Management

HPE Compute Ops Management Standard 3-year Upfront ProLiant SaaS	R7A11AAE

Additional Options

HPE Compute Ops Management Standard 1-year Upfront ProLiant SaaS	R7A10AAE
HPE Compute Ops Management Standard 5-year Upfront ProLiant SaaS	R7A12AAE

Notes: For customers purchasing HPE Compute Ops Management, without a hardware purchase or a BTO purchase, use this base SKU within ASQ order:

HPE Compute Ops Management Base SaaS	R6Z73AAE

HPE Security

HPE Trusted Platform Module 2.0 Gen10 Option	864279-B21

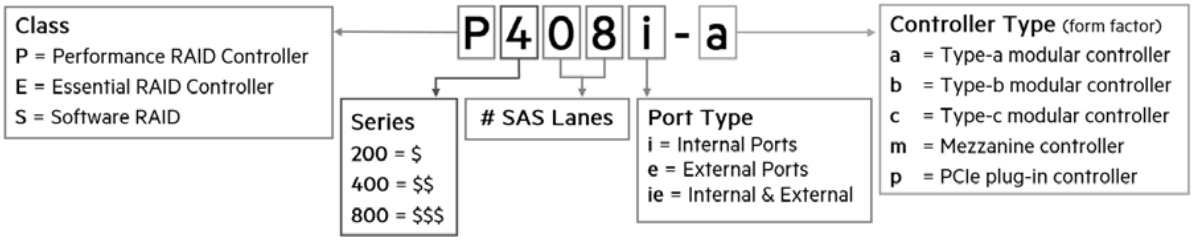
Notes:

- 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.

Additional Options

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

HPE USB Options

HPE Enterprise Mainstream Flash Media Kits for Memory Cards

HPE 32GB microSD RAID 1 USB Boot Drive	P21868-B21

Notes: In vSphere 7.0, VMware made changes that impact the use of an SD Card/USB media as a standalone boot device and will be removing support for them after version 7.x.
SD Card/USB media can still be used as a standalone boot option through all 7.x releases via published Customer Advisory **Usage of SD Card/USB Devices As Standalone Boot Devices Has Changed Due to System Storage Changes For VMware ESXi 7.0 (Or Later).**
For any major release beyond VMware ESXi 7.x, VMware will require M.2 or another local persistent device as the standalone boot option.

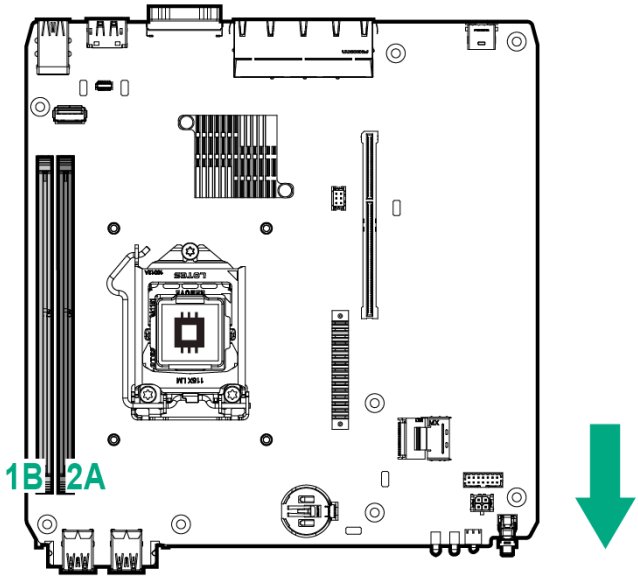
HPE Optical Drives

HPE Mobile USB DVD-RW Optical Drive	701498-B21

Memory

HPE ProLiant MicroServer Generation 10 Plus

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



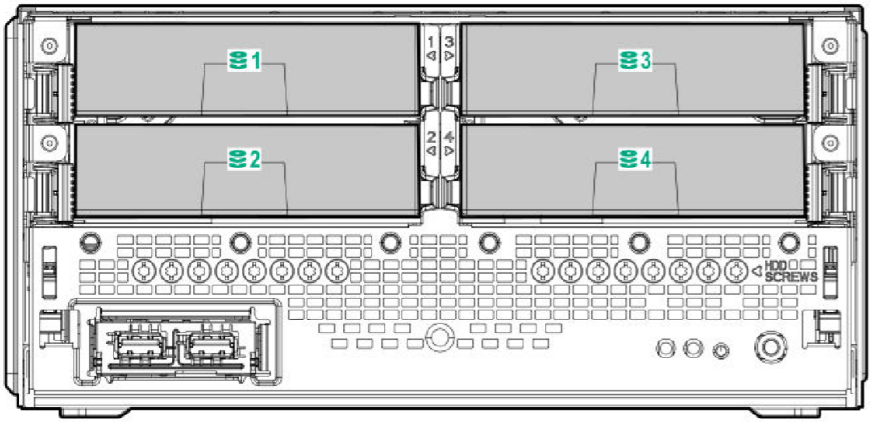
Maximum Memory

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 VAC
- **Rated Input Current**
  2.5 A (at 90 VAC)
- **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:
https://www.hpe.com/us/en/integrated-systems/rack-power-cooling.html

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.

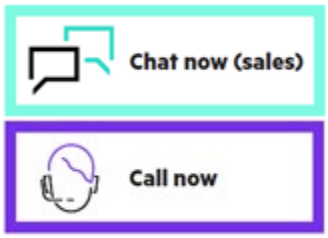
The EU WEEE directive (2012/19/EU) requires manufacturers to provide treatment information for each product type for use by treatment facilities. This information (product disassembly instructions) is posted on the Hewlett Packard Enterprise web site. These instructions may be used by recyclers and other 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
18-Aug-2025	**Version 13**	Changed	Standard Features section was updated.
16-Sep-2024	**Version 12**	Changed	Standard Features (Operating Systems and Virtualization Software Support for HPE Servers) and Additional Options sections were updated.
20-Nov-2023	**Version 11**	Changed	HPE Services Rebranding
01-May-2023	**Version 10**	Changed	Optional Features and Additional Options sections were updated.
07-Nov-2022	**Version 9**	Changed	Standard Features, Optional Features and Additional Options sections were updated.
18-Apr-2022	**Version 8**	Changed	Pre-configured Models section was updated.
07-Mar-2022	**Version 7**	Changed	Core options section was updated.
07-Feb-2022	**Version 6**	Changed	Technical Specifications section was updated.
06-Dec-2021	**Version 5**	Changed	Additional Options section was updated. Obsolete SKUs were removed.
18-Oct-2021	**Version 4**	Changed	Technical Specifications section was updated. Obsolete SKUs were removed.
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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For hard drives, 1GB = 1 billion bytes. Actual formatted capacity is less.

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