

### Overview

### HPE ProLiant ML30 Gen11

The HPE ProLiant Compute ML30 Gen11 is an enterprise class server with an affordable starting price for SMB and ROBO budgets running on-premises or hybrid-cloud workloads. Performance, security, and expansion capabilities make the ML30 a perfect fit for point of sale, file, print and save applications and security monitoring workloads needed in franchise, remote or branch office locations.

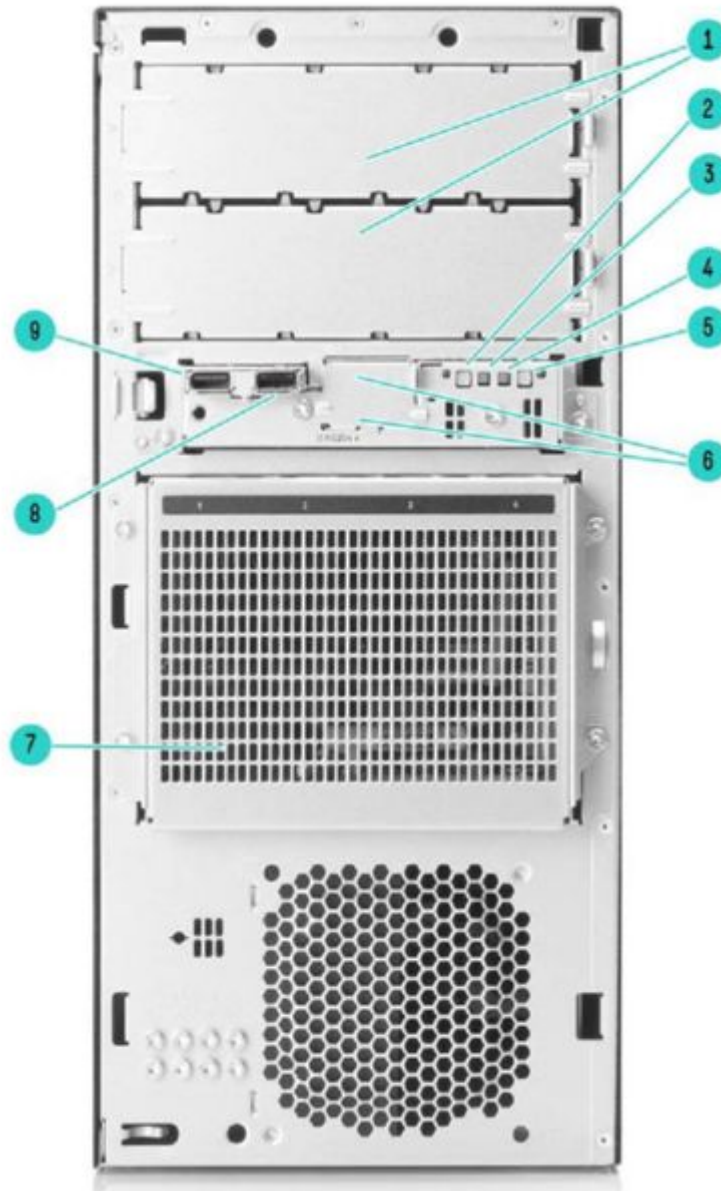


**4LFF Front View Gen11**

- |                      |   |
|----------------------|---|
| 1. Bezel             | 5. NIC status LED <sup>1</sup>                  |
| 2. iLO Service Port  | 6. Health LED                                   |
| 3. USB 3.2 Gen1 port | 7. Power On/Standby button and system power LED |
| 4. UID button/LED    |   |

**Notes:** <sup>1</sup> Front NIC LED display doesn't support NIC LED ACT/LINK indication from ALOM/PCIE/FLOM NIC's

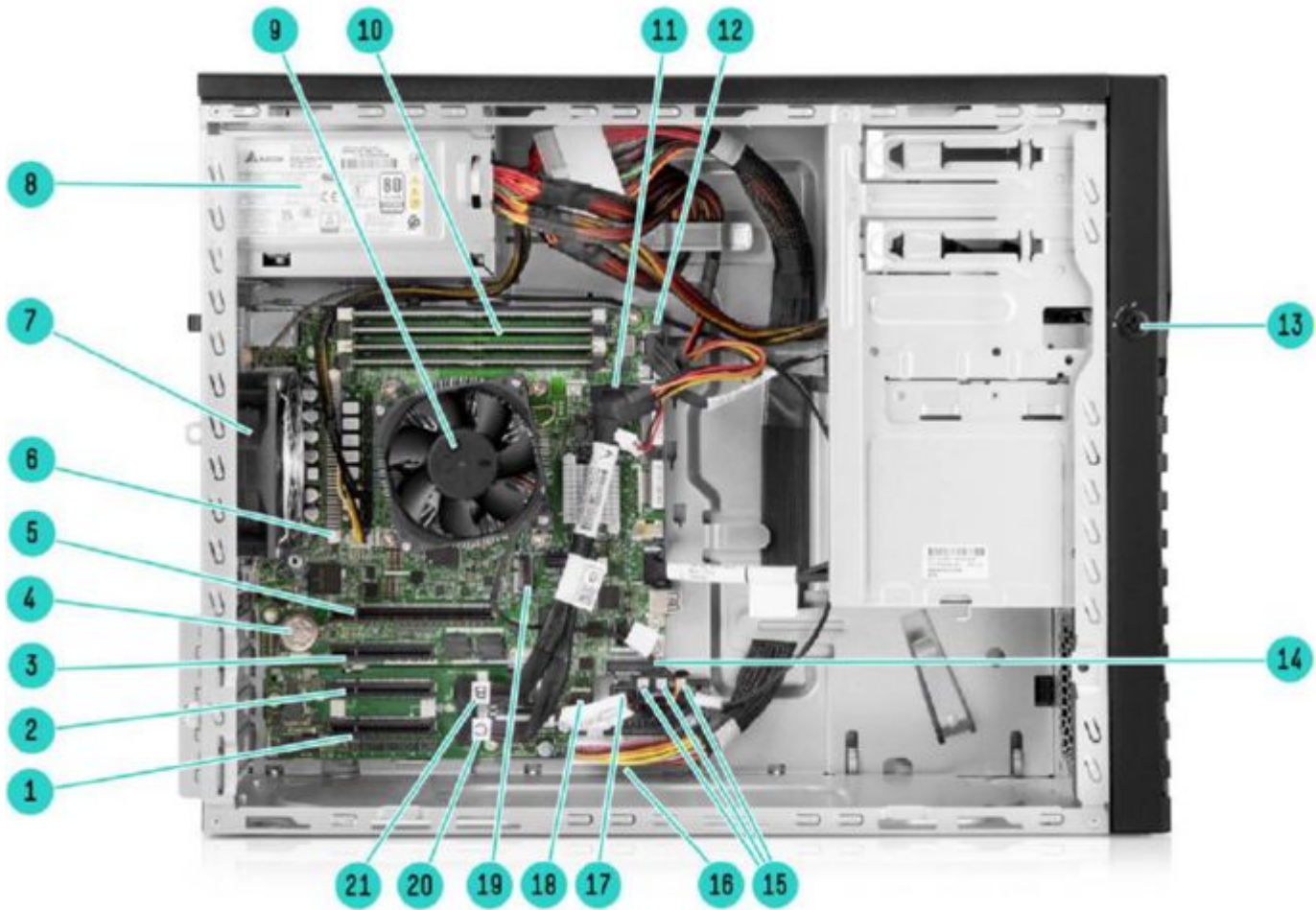
### Overview



**Front View 4LFF Gen11**

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|----|--|----|--|
| 1. | Media Bays                                   | 6. | NS204i-u device slot 1 & 2 (optional, not shown) |
| 2. | UID button/LED                               | 7. | Hot Plug SFF drives -> NHP, LFF and SFF          |
| 3. | NIC status LED                               | 8. | iLO Service Port                                 |
| 4. | Health LED                                   | 9. | USB 3.2 Gen 1 port                               |
| 5. | Power On/Standby button and system power LED |    |  |

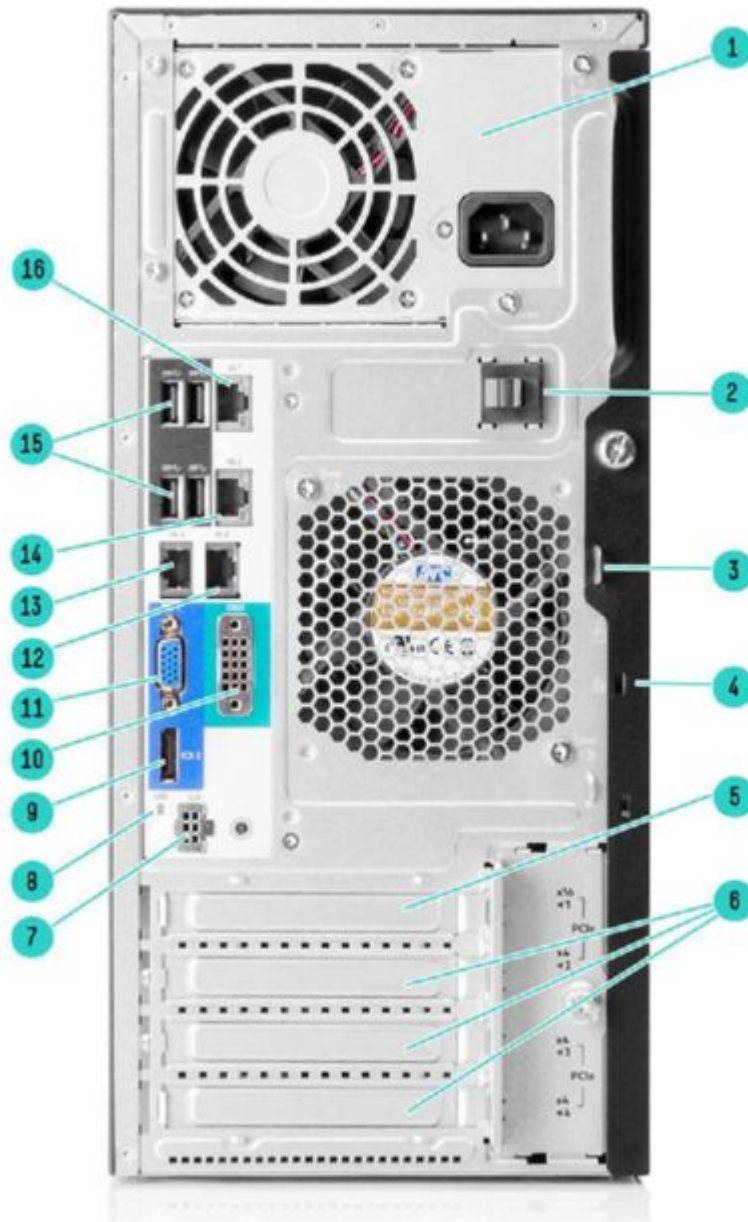
## Overview



### Internal View 4LFF Gen11

- |     |                                 |     |   |
|-----|---------------------------------|-----|---|
| 1.  | Slot 4 PCIe4 x8 (4, 1).         | 12. | Front I/O & USB 3.2 Gen 1 & iLO service port connector  |
| 2.  | Slot 3 PCIe4 x8 (4, 1).         | 13. | Bezel Lock  |
| 3.  | Slot 2 PCIe4 x8 (4, 1).         | 14. | Power supply sideband connector                         |
| 4.  | System battery                  | 15. | Fan Connectors  |
| 5.  | Slot 1 PCIe5 x16                | 16. | 24-pin power supply connector                           |
| 6.  | 4-pin processor power connector | 17. | PDB: System power connector                             |
| 7.  | System Fan                      | 18. | Mainboard: System power connector                       |
| 8.  | Power Supply                    | 19. | M.2 Slot (Supports the iLO/NIC/M.2/COM Port Kit option) |
| 9.  | Processor and heatsink/fan      | 20. | Slot 4 SlimSAS x4 port                                  |
| 10. | 4 DDR5 DIMM slots               | 21. | Slot 3 SlimSAS x4 port                                  |
| 11. | SlimSAS x8 port                 |     |   |

### Overview



**Rear View 4LFF Gen11**

- |  |  |
|--|--|
| 1. Non-hot-plug power supply             | 9. Display Port                          |
| 2. Power cord clip                       | 10. Serial port (optional)               |
| 3. Padlock eye                           | 11. VGA port                             |
| 4. Kensington security slot              | 12. NIC port 3 (1 GbE)                   |
| 5. Slot 1 PCIe5 x16                      | 13. NIC port 4 (1 GbE)                   |
| 6. Slots 2-4 PCIe4 x4                    | 14. NIC port 2 (1 GbE)                   |
| 7. iLO dedicated network port (optional) | 15. USB 3.2 Gen 1 ports (4)              |
| 8. UID LED                               | 16. NIC port 1 / iLO shared port (1 GbE) |

### Overview

#### What's New

- Supports latest Intel® Xeon® E-2400 and Pentium® processors up to 8 cores 95W TDP
  - New PCIe 5.0 support
  - New HPE DDR5 Standard Memory (UDIMM), 4800MT/s maximum speed offering in 16GB and 32GB. Max 128GB memory capacity.
  - Embedded 1GbE 4-port NIC with support of PCIe NICs
  - New HPE Gen11 Storage Controllers
  - New HPE NS204i-u Gen11 NVMe Hot Plug Boot Optimized Storage Device
  - New HPE Storage SSD and HDD support
  - New HPE iLO 6 support
  - HPE 1000W Flex Slot Titanium Hot Plug Power Supply Kit
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#### Platform Information

- Form Factor
- 4U Tower

**Notes:** Sliding Shelf - 874578-B21 is optional to support rack form factor.

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#### Chassis Types

- 8 SFF hot plug chassis with 2 half-height (5.25") media bays for optional internal slim-line DVD bay kit, RDX, or LTO options
  - 4 LFF hot plug chassis with 2 half-height (5.25") media bays for optional internal slim-line DVD bay kit, RDX, or LTO options
  - 4 LFF non-hot plug chassis with 2 half-height (5.25") media bays for optional internal slim-line DVD bay kit, RDX, or LTO options
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#### System Fans

- 1 Default system fan module (92 x 32 mm)
- 1 PCIe fan module (92 x 32 mm) depending on model.

#### Notes:

– PCIe fan module is part of HPE ML30 Gen11 PCI Fan and Baffle Kit (P65106-B21) which is included in pre-configured Performance Models.

– HPE ML30 Gen11 PCI Fan and Baffle Kit (P65106-B21) is required as follows:

Must be selected in 4LFF Hot Plug CTO Server and 8SFF Hot Plug CTO Server.

Must be selected in 4LFF NHP CTO Server and pre-configured Entry Model if any PCIe card (NIC, Smart Array Controller, graphic card, etc.).

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### Standard Features

#### Naming Framework

The Gen11 server naming framework is illustrated below to help simplify server component identification. Description Format for HPE ProLiant ML30 Gen11 CTO Server (Long Name)

HPE ProLiant ML30 Gen11 4LFF Non-Hot Plug Configure-to-order Server

Master Brand	Platform	Server Generation	Form Factor Type / Form Factor Size	Hard Drive Interface	Business Model	Description Noun
HPE – Hewlett Packard Enterprise	ProLiant ML30	Gen10 Plus Gen11	4LFF 8SFF	Hot Plug Non-Hot Plug	Configure-to-order	Compute Module Server

#### Description Format for HPE ProLiant ML30 Gen11 BTO Server (Long Name)

HPE ProLiant ML30 Gen11 E-2414 2.6GHz 4-core 1P 16GB-U 4LFF Hot Plug 1TB 350W PS Server

Master Brand	Platform	Server Generation	Processor Code	Processor Speed	Processor Core	Number of Processors	Total Memory and Type	Form Factor Type / Form Factor Size	Hard Drive Interface	Hard Drive	Power Supply Installed	Description Noun
HPE – Hewlett Packard Enterprise	ProLiant ML30	Gen10 plus Gen11	Intel Xeon E-2414 Intel Xeon E-2434 Intel Xeon E-2436	2.6GHz 3.4GHz 2.9GHz	4-Core	1P	16GB-U (Unbuffered Memory)	4LFF 8SFF	Hot Plug Non-Hot Plug	1TB	350W PS 600W PS 500W PS	Compute Model Server

#### 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:

##### Notes:

- This product does not support processor graphics.
- For more information regarding Intel Xeon processors, please see the following <http://www.intel.com/xeon>.
- Pentium G7400 does not comply with Energy Star 4.0

## Standard Features

Intel Models	CPU Base Frequency	Cores	L3 Cache	Power	DDR5
Xeon E-2488	3.2 GHz	8	24 MB	95W	4400 MT/s
Xeon E-2478	2.8 GHz	8	24 MB	80W	4400 MT/s
Xeon E-2468	2.6 GHz	8	24 MB	65W	4400 MT/s
Xeon E-2486	3.5 GHz	6	18 MB	95W	4400 MT/s
Xeon E-2456	3.3 GHz	6	18 MB	80W	4400 MT/s
Xeon E-2436	2.9 GHz	6	18 MB	65W	4400 MT/s
Xeon E-2434	3.4 GHz	4	12 MB	55W	4400 MT/s
Xeon E-2414	2.6 GHz	4	12 MB	55W	4400 MT/s
Pentium G7400	3.7 GHz	2	6 MB	46W	4400 MT/s

## Chipset

Intel® C262 Chipset

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

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

## On System Management Chipset

HPE iLO 6 ASIC

**Notes:** Read and learn more in the [HPE iLO QuickSpecs](#).

## Memory

<b>Type</b>	HPE DDR5 Standard Memory, Unbuffered (UDIMM)
<b>DIMM Slots Available</b>	4 (4 DIMM slots per processor, 2 channels per processor, 2 DIMMs per channel)
<b>Maximum Capacity (UDIMM)</b>	128GB (4 x 32GB UDIMM @ 3600 MT/s)

### Notes:

- The maximum memory speed depends on the processor model.
- The maximum speed capability of the memory system is governed by the combination of the CPU and any other DIMMs installed in the server. If higher speed DIMMs are installed with a CPU that only supports a lower memory speed, the DIMMs will only run at the (lower) memory speed supported by the processor. Likewise, if memory DIMMs are mixed with slower DIMMs within a server, all DIMMs will run at the slower memory speed. For further information please refer to the Memory Population Rules for your specific server.
- For Server Memory Population Rules for HPE ProLiant Gen11 Servers with Intel® Xeon® E-2400 Processors see details here: <http://www.hpe.com/docs/server-memory>.

## Memory Protection

- ECC

## Standard Features

### Expansion Slots

Expansion Slots #	Technology	Bus Width	Connector Width	Form Factor	Notes
1	PCIe 5.0	x16	x16	Full height, full length	Processor
2	PCIe 4.0	X4	X8	Full height, full length	Processor
3	PCIe 4.0	X4	X8	Full height, half length	PCH
4	PCIe 4.0	X4	X8	Full height, half length	PCH

**Notes:**

- Bus Width indicates the number of physical electrical lanes running to the connector.
- If installing any PCIe card (including controller card and NIC card) that are PCIe x8 electrically, suggest PCIe controller card be installed in Slot 1 and PCIe NIC be installed in Slot 2 for optimal performance results.

### Network Controller

Embedded Broadcom BCM5719 Ethernet 1Gb 4-port BASE-T Adapter

The HPE ProLiant ML30 Gen11 offers the customer a quad-port NIC as standard with the option to upgrade with a variety of networking options.

**Notes:** Support document and downloads including firmware and drivers for the Broadcom BCM5719 Ethernet 1Gb 4-port BASE-T LOM Adapter can be downloaded from the [supplier's support and services webpage](#).

### Internal Storage Devices

- **Optical Drives**

None ship standard.

Optional: SATA 9.5mm DVD-RW/DVD-ROM Optical Drive

- **Hard Drives**

None ship standard

### Storage Controllers

#### Software RAID

Intel® VROC SATA SW RAID

**Notes:**

- Intel Virtual RAID on CPU (Intel VROC) is the SATA software RAID controller supported in this server.
- All server models support Intel VROC SATA RAID.



### Standard Features

- BIOS Default is SATA AHCI. Intel VROC SATA RAID is disabled by default. Intel VROC SATA RAID can be enabled in BIOS/Platform Configuration (RBSU) or iLO Redfish API.
- Intel VROC SATA RAID OS drivers are not included in the HPE Support Pack for ProLiant (SPP) and must be downloaded from [support.hpe.com](https://support.hpe.com).
- Intel VROC SATA RAID supports RAID 0,1,5,10.
- Intel VROC SATA RAID cannot be factory ordered/ as Intel VROC SATA RAID must be enabled in BIOS by the customer.
- Intel VROC SATA RAID does not support different form factors of drives (e.g., SFF + M.2)
- Intel VROC SATA RAID supports Windows Server and Linux but does not support VMware.
- Required to install HPE Agentless Management (AMS) in OS for supporting drives thermal sensor reading for thermal fan control, otherwise may experience acoustic noise impact.
- Both Intel® Xeon® E processors and Intel® Pentium® processors support Intel® VROC SATA RAID.
- See HPE Support Center for additional information regarding installation of Intel® VROC (SATA RAID): Enabling Intel VROC (SATA RAID) for SATA or SATA on BIOS/Platform configuration (RBSU)
  - o **Windows Edition**
  - o **Linux Edition**
- Intel VROC SATA RAID volumes cannot be created in Intelligent Provisioning. Volumes must be created manually.
- Intel VROC SATA RAID requires the server boot mode to be set to UEFI Mode.
- Obtain the Intel VROC downloads (drivers, GUI) specific for your system OS. For direct download links, see the OS-specific VROC guide: <https://hpe.com/support/VROC-Gen11-UG>
- Intel VROC supports RAID management through the following tools:
  - o Non-OS specific: UEFI System Utilities
  - o Windows: Intel VROC GUI, Intel VROC CLI.
  - o Linux: mdadm CLI

### Essential RAID Controller

- HPE Smart Array E208e-p SR Gen10 Controller

### Tri-Mode Controllers

- HPE MR216i-p Gen11 SPDM Storage Controller
- HPE MR416i-p Gen11 Controller

**Notes:** For additional details, please visit:

## Standard Features

- [HPE Compute MR Gen11 Controllers QuickSpecs](#)
- [HPE Compute SR Gen11 Controllers QuickSpecs](#)

Maximum Internal Storage		
Drive	Capacity	Configuration
Hot Plug LFF SAS	80 TB	4 x 20 TB
Hot Plug LFF SATA	80 TB	4 x 20 TB
Hot Plug SFF SAS	19.2 TB	8 x 2.4 TB
Hot Plug SFF SATA	16 TB	8 x 2 TB
Non Hot Plug LFF SATA	16 TB	4 x 4 TB
Hot Plug LFF SATA SSD	3.84 TB	4 x 960 GB
Hot Plug SFF SAS SSD	61.44 TB	8 x 7.68 GB
Hot Plug SFF SATA SSD	61.44 TB	8 x 7.68 TB

## Graphics

Integrated Video Standard

- 1) Video modes up to 1920 x 1200 @85Hz (16 bpp)
- 2) 16MB Video Memory

HPE iLO 6 On System Management Memory

- 3) 32 MB Flash
- 4) 8 Gbit DDR 4

## Power Supply

- HPE 350W Non-redundant FIO Power Supplies
  - **P45212-B21**, HPE ML30 Gen10 Plus 350W FIO Power Supply Kit
  - Notes:** Power efficiency at 94% Multi-output
- HPE Redundant Power Supplies
  - **865408-B21**, HPE 500W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit
  - Notes:** Power efficiency at 94% single output

### Standard Features

– **865438-B21**, HPE 800W Flex Slot -48VDC Platinum Hot Plug Low Halogen Power Supply Kit

**Notes:** Power efficiency at 96% single output

– **P03178-B21**, HPE 1000W Flex Slot Titanium Hot Plug Power Supply Kit

**Notes:** Power efficiency at 96% single output

HPE Entry-Level Power Supplies provide lower-cost options for customers trying to balance their need for enterprise class efficiency and reliability while maintaining the lowest possible hardware costs. All Entry-Level power supply options have been designed specifically for HPE ProLiant Gen10 Plus and Gen11 Essential Series servers.

The HPE 350W FIO Power Supply is the standard, non-redundant AC power supply option for most HPE ProLiant Gen10 Plus and Gen11 Essential servers. It features Gold-level (92%) and Platinum-level (94%) certified power efficiency with a set of features optimized for the Gen10 Plus and Gen11 Essential-series tower servers.

HPE Flexible Slot (Flex Slot) Power Supplies share a common electrical and physical design that allows for hot plug, tool-less installation into HPE ProLiant Gen10 Plus and Gen11 Performance Servers. Flex Slot power supplies are certified for high-efficiency operation and offer multiple power output options, allowing users to "right-size" a power supply for specific server configurations. This flexibility helps to reduce power waste, lower overall energy costs, and avoid "trapped" power capacity in the data center.

All pre-configured servers ship standard with one or more country-specific 6 ft/1.83m C-13 power cords depending on regions. If a different power cord is required, please check the [HPE Power Cords and Cables](#) web page.

To review the power requirements for your selected system, please use the [HPE Power Advisor Tool](#).

For information on power specifications and technical content visit [HPE Server power supplies](#).

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### Interfaces

<b>Video</b>	1 Rear - VGA port (standard on all chassis types) 1 Rear - Display port
<b>Serial Port</b>	1 port - Optional (Rear)
<b>Network Port (RJ-45)</b>	4x 1GbE embedded NIC (standard on all chassis types)
<b>iLO Remote Management Port</b>	1 Gb Dedicated NIC (Optional RJ45 Connector)
<b>USB</b>	8 USB ports (standard) Front: 2x USB Type-A ports with 1x USB 3.2 Gen 1x1 and 1x USB 2.0 (iLO service port) Rear: 4x USB Type-A Ports, 3.2 Gen 1x1 Internal: 2x USB 3.2 Gen 2x1

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### Operating Systems and Virtualization Software

- See [HPE Servers Support & Certification Matrices](#)
- [Microsoft Windows Server](#)
- [VMware ESXi](#)
- [Red Hat Enterprise Linux \(RHEL\)](#)
- [SUSE Linux Enterprise Server \(SLES\)](#)
- [Canonical Ubuntu](#)

**Notes:**

### Standard Features

– VMware supported only with Intel® Xeon® E processors, not supported with Intel® Pentium® processors.  
No Legacy Mode Support on VMware. <https://kb.vmware.com/s/article/84233>

– 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>.

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### Upgradeability

#### One of the following depending on model

- Up to 4 DIMM slots available for higher memory capacity
  - HPE Smart Array or Smart HBA Controller
  - Redundant Power Supply
  - Optional iLO Management Port
  - M.2 NVMe SSDs or NS204i-u for boot
- 

### Industry Standard Compliance

- ACPI 6.3 Compliant
- PCIe 5.0 Compliant
- WOL Support
- Microsoft® Logo certifications
- PXE Support
- USB 3.2 Compliant
- SMBIOS 3.2
- UEFI 2.9 (Unified Extensible Firmware Interface Forum)

**Notes:** UEFI is the default for the ML30 Gen10 Plus.

- **Redfish API**

- IPMI 2.0
- Secure Digital 4.0
- TPM 2.0 Support
- 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 A3/A4

**Notes:** For additional technical thermal details regarding ambient temperatures, humidity and features support please visit: <http://www.hpe.com/servers/ashrae>

- Energy Star 4.0
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### Standard Features

**Notes:** Pentium G7400 does not comply with Energy Star 4.0

- EU Lot 9

**Notes:** Beginning on January 1st, 2024, the EU's Lot 9 eco-design regulations for servers and storage products will enforce minimum efficiency for AC power supplies: 94% for multi-output and 96% for single output. HPE power supplies that meet Lot 9 requirements are: P45212-B21 (Multi-output & 94% efficient) and 865438-B21 (single-output and 96% efficient).

HPE is on target to fulfil compliant systems ahead of time and will begin enforcing these requirements in advance to satisfy requests with the current power supplies by the set deadline. For more information regarding HPE Lot 9 conformance, please visit:

<https://www.hpe.com/us/en/about/environment/msds-specs-more.html>

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### HPE Server UEFI 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 Gen11 servers have a UEFI Class 2 implementation and support both UEFI Mode (default).

**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.

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### 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>.

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### Standard Features

#### 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>.

#### 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>.

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### 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 6 to discover and deploy servers at scale.

Learn more at <http://www.hpe.com/info/resttool>.



### Standard Features

#### 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 OneView Standard

HPE OneView Standard can be used for inventory, health monitoring, alerting, and reporting without additional fees. It can monitor multiple HPE server generations. The user interface is like the HPE OneView Advanced version, but the software-defined functionality is not available. Learn more at <http://www.hpe.com/info/oneview>.

#### 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.

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### 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
- Advanced Encryption Standard (AES) and Triple Data Encryption Standard (3DES) on browser
- Support for Commercial National Security Algorithms (CNSA)
- iLO Security Modes
- Granular control over iLO interfaces
- Smart card (PIV/CAC) and Kerberos based 2-factor Authentication.
- Tamper-free updates - components digitally signed and verified.
- Secure Recovery - recover critical firmware to known good state on detection of compromised FW.
- Ability to rollback firmware
- Secure erase of NAND/User data
- TPM (Trusted Platform Module) 2.0

**Notes:** Enabling TPM 2.0 no longer requires TPM module option kit for Gen11. It is an embedded feature yet disabled for shipments to China.

- Front bezel key-lock, standard
- Padlock slot, standard
- Kensington Lock slot, standard
- Intel® TXT (Trusted Execution Technology)

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### 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 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

## Standard Features

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.

**Notes:** Server Warranty includes 3-Year Parts, 1-Year Labor, 1-Year Onsite support with next business day response. Warranty repairs may be accomplished using 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/support/ProLiantServers-](https://www.hpe.com/support/ProLiantServers-Warranties)

### Warranties

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### Optional Features

#### Server Management

##### HPE 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 GreenLake for Compute Ops Management

HPE is intelligently transforming compute management with an intuitive cloud operating experience through HPE GreenLake cloud platform to streamline and secure operations from edge-to-cloud. Automated key lifecycle tasks, for onboarding, updating, managing, and monitoring HPE servers, brings agility and greater efficiencies to wherever compute devices reside via a unified single browser-based interface. Manage single locations or multiple, distributed sites. Keep tens to thousands of servers secure with batch policy controls and automated updates.

Compute Ops Management is cloud-native software that is continually updated with new services, features, patches, and fixes. The management application resides in the HPE GreenLake cloud platform (access via <https://console.greenlake.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 GreenLake for 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 OneView Advanced

HPE OneView brings a new level of automation to infrastructure management by taking a template driven approach to provisioning, updating, and integrating compute, storage, and networking infrastructure. It provides full-featured licenses which can be purchased for managing Gen8, Gen9, Gen10 and Gen10 Plus servers. To learn more visit <https://www.hpe.com/info/oneview>.

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#### 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/>.

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### Service and Support

#### HPE Services- Service and Support

**Get the most from your HPE Products.** Get the expertise you need at every step of your IT journey with **HPE Services**. We help you lower your risks and overall costs using automation and methodologies that have been tested and refined by HPE experts through thousands of deployments globally. HPE Services **Advisory Services**, focus on your business outcomes and goals, partnering with you to design your transformation and build a roadmap tuned to your unique challenges. Our **Professional** and **Operational Services** can be leveraged to speed up time-to-production, boost performance and accelerate your business. HPE Services specializes in flawless and on-time implementation, on-budget execution, and creative configurations that get the most out of software and hardware alike.

#### Consume IT on your terms.

**HPE GreenLake** 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 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.

#### Managed services to run your IT operations.

**HPE GreenLake Management Services** provides 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.

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### Recommended Services

#### HPE Services Tech Care

HPE Services Tech Care is the new operational service experience for HPE products. Tech Care 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 Services Tech Care has been reimaged from the ground up to support a customer-centric, AI driven, and digitally enabled customer experience to move your business forward. HPE Services Tech Care 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>

#### HPE Services Complete Care

HPE Services Complete Care is a modular, edge-to-cloud IT environment service that provides a holistic approach to optimizing your entire IT environment and achieving agreed upon IT outcomes and business goals through a personalized and customer-centric experience. All delivered by an assigned team of HPE Services experts. HPE Services Complete Care provides:

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

### Service and Support

- Digitally enabled and AI driven customer experience

<https://www.hpe.com/services/complecare>

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### 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://h20195.www2.hpe.com/v2/Getdocument.aspx?docname=5981-9356enw>

#### 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 include the installation of one supported operating system type (Windows® or Linux).

#### DC for Hyperscale

Complete Care for Hyperscale is available for Service Providers and HPC customers who use a scale out approach to computing with a high-volume homogenous infrastructure and resilient architecture can take advantage of this environment support tailored to their operating model.

#### HPE Factory Express for Servers and storage

HPE Factory Express offers configuration, customization, integration and deployment services for HPE servers and storage products. Customers can choose how their factory solutions are built, tested, integrated, shipped and deployed.

Factory Express offers service packages for simple configuration, racking, installation, complex configuration and design services as well as individual factory services, such as image loading, asset tagging, and custom packaging. HPE products supported through Factory Express include a wide array of servers and storage: HPE Integrity, HPE ProLiant, HPE Apollo, HPE ProLiant Server Blades, HPE BladeSystem, HPE 9000 servers as well as the MSAXxxx3PAR suite, XP, rackable tape libraries and configurable network switches.

#### 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 to make sure they have the right skills to deliver on your business outcomes. Book a class today and learn how to get the most from your technology investment.

<http://www.hpe.com/ww/learn>

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## Service and Support

### HPE Support Center

The HPE Support Center is a personalized online support portal with access to information, tools and experts to support HPE 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 an HPE warranty, HPE Support Service or HPE contractual support agreement.

**Notes:** \*HPE Support Center Mobile App is subject to local availability.

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

Warranty and Support Services will extend to include HPE options configured with your server or storage device. 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. Additional support is only required on select workload accelerators, fibre switches, InfiniBand and UPS batteries over 12KVA.

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### 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 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 Hewlett Packard Enterprise due to malfunction.

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### Pre-configured Models

Pre-Configured models ship with the configurations below.

- 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 not be shipped inside the server.
- Network Choice models do not include embedded LOM.

Performance Models			
<b>SKU Number</b>	P65096-001 P65096-291 P65096-371 P65096-421	P65097-001	P65397-001 P65397-291 P65397-371 P65397-421 P65397-AA1
<b>Model Name</b>	<p>P65096-001, P65096-291 &amp; P65096-371: HPE ProLiant ML30 Gen11 E-2436 2.9GHz 4-core 1P 16GB-U 8SFF-HP 500W PS Server</p> <p>P65096-421: HPE ProLiant ML30 Gen11 E-2436 2.9GHz 4-core 1P 16GB-U 8SFF-HP 800W PS Server</p>	<p>HPE ProLiant ML30 Gen11 E-2414 2.6GHz 4-core 1P 16GB-U 4LFF-NHP 1TB 350W PS Server</p>	<p>P65397-001: HPE ProLiant ML30 Gen11 E-2434 3.4GHz 4-core 1P 16GB-U 8SFF 500W PS NA Server</p> <p>P65397-291: HPE ProLiant ML30 Gen11 E-2434 3.4GHz 4-core 1P 16GB-U 8SFF 500W PS JP Server</p> <p>P65397-371: HPE ProLiant ML30 Gen11 E-2434 3.4GHz 4-core 1P 16GB-U 8SFF 500W PS AP Server</p> <p>P65397-421: HPE ProLiant ML30 Gen11 E-2434 3.4GHz 4-core 1P 16GB-U 8SFF 500W PS EMEA Server</p> <p>P65397-AA1: HPE ProLiant ML30 Gen11 E-2434 3.4GHz 4-core 1P 16GB-U 8SFF 500W PS CN Server</p>
<b>Chassis</b>	HPE ProLiant ML30 Gen11 8SFF Hot Plug Configure-to-order Server	HPE ProLiant ML30 Gen11 4LFF Non-hot Plug Configure-to-order Server	HPE ProLiant ML30 Gen11 8SFF Hot Plug Configure-to-order Server
<b>Processor</b>	E-2436 (6 core, 2.9 GHz, 65W)	E-2414 (4 core, 2.6 GHz, 55W)	E-2434 (4 core, 3.4 GHz, 55W)

### Pre-configured Models

<b>Number of Processors</b>	One		
<b>Memory</b>	16 GB (1x16 GB UDIMM, 4800 MT/s)		
<b>Network Controller</b>	Embedded 1Gb 4-Port Ethernet Adapter		
<b>Storage Controller</b>	Embedded Intel VROC SATA software RAID <b>Notes: SATA Only</b>	Embedded Intel VROC SATA software RAID <b>Notes: SATA Only</b> - NHP models do not support internal Smart Array controllers	Embedded Intel VROC SATA software RAID <b>Notes: SATA Only</b>
<b>Included Hard Drives</b>	None ship standard, 8 SFF supported	1TB SATA HDD	None ship standard, 8 SFF supported
<b>Optical Drive Bay</b>	Optional Slimline ODD Bay Kit (P65102-B21) consumes 1 media bay <b>Notes: Up to 1 optical drive bay</b>		
<b>Optical Drive</b>	None ship standard; ODD Optional		
<b>Power Supply</b>	P65096-001, P65096-291 & P65096-371: 1x HPE 500W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit	1x HPE ML30 Gen10 Plus 350W FIO Power Supply Kit	P65397-001, P65397-291, P65397-371 & P65397-AA1: 1x HPE 500W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit <b>Notes: Add a second 500W Flex Slot Power Supply to get 1+1 power redundancy feature.</b>
	P65096-421: 1x HPE 800W Flex Slot Titanium Hot Plug Low Halogen Power Supply Kit <b>Notes: 800W power supply only in EMEA for EU Lot 9 Compliance.</b>		P65397-421: 1x HPE 800W Flex Slot Titanium Hot Plug Low Halogen Power Supply Kit <b>Notes: Add a second 800W Flex Slot Power Supply to get 1+1 power redundancy feature.</b> - 800W power supply only in EMEA for EU Lot 9 Compliance.
<b>Fans</b>	1x Non-hot plug non-redundant system fan		

Pre-configured Models

<p><b>Security</b></p>	<p>TPM (Trusted Platform Module)</p>	<p>TPM (Trusted Platform Module)</p>	<p>P65397-001, P65397-291, P65397-371 &amp; P65397-421: TPM (Trusted Platform Module)</p> <p>P65397-AA1: TPM disabled for shipments to China</p>
<p><b>Form Factor</b></p>	<p>4U Tower</p>		
<p><b>Warranty</b></p>	<p>Server Warranty includes 3-Year Parts, 1-Year Labor, 1-Year Onsite support with next business day response  <a href="#">Notes: APAC, Japan, and PRC Server Warranty includes 3-Year parts, 3-Year Labor, 3-Year Onsite support with next business day response</a></p>		

### Pre-configured Models

Entry Models			
<b>SKU Number</b>	P65093-001 P65093-291 P65093-371 P65093-421 P65093-AA1	P65094-001 P65094-371 P65094-421	P65095-001 P65095-291 P65095-371 P65095-421
<b>Model Name</b>	HPE ProLiant ML30 Gen11 E-2414 2.6GHz 4-core 1P 16GB-U 4LFF-NHP 350W PS Server	HPE ProLiant ML30 Gen11 E-2414 2.6GHz 4-core 1P 16GB-U 4LFF-NHP 1TB 350W PS Server	P65095-001: HPE ProLiant ML30 Gen11 E-2434 3.4GHz 4-core 1P 16GB-U 4LFF 500W PS NA Server  P65095-291: HPE ProLiant ML30 Gen11 E-2434 3.4GHz 4-core 1P 16GB-U 4LFF 500W PS JP Server  P65095-371: HPE ProLiant ML30 Gen11 E-2434 3.4GHz 4-core 1P 16GB-U 4LFF 500W PS AP Server  P65095-421: HPE ProLiant ML30 Gen11 E-2434 3.4GHz 4-core 1P 16GB-U 4LFF 500W PS EMEA Server
<b>Chassis</b>	HPE ProLiant ML30 Gen11 4LFF Non-hot Plug Configure-to-order Server	HPE ProLiant ML30 Gen11 4LFF Non-hot Plug Configure-to-order Server	HPE ProLiant ML30 Gen11 4LFF Hot Plug Configure-to-order Server
<b>Processor</b>	E-2414 (4 core, 2.6 GHz, 55W)	E-2414 (4 core, 2.6 GHz, 55W)	E-2434 (4 core, 3.4 GHz, 55W)
<b>Number of Processors</b>	One		
<b>Memory</b>	16 GB (1x16 GB UDIMM, 4800 MT/s)		
<b>Network Controller</b>	Embedded 1Gb 4-Port Ethernet Adapter		
<b>Storage Controller</b>	Embedded Intel VROC SATA software RAID <b>Notes: SATA Only</b> - NHP models do not support internal Smart Array controllers	Embedded Intel VROC SATA software RAID <b>Notes: SATA Only</b> - NHP models do not support internal Smart Array controllers	Embedded Intel VROC SATA software RAID <b>Notes: SATA Only</b>

### Pre-configured Models

<b>Included Hard Drives</b>	None ship standard, 4 LFF supported	1TB SATA HDD	None ship standard, 4 LFF supported
<b>Optical Drive Bay</b>	Optional Slimline ODD Bay Kit (P65102-B21) consumes 1 media bay <b>Notes:</b> Up to 1 optical drive bay		
<b>Optical Drive</b>	None ship standard; ODD Optional		
<b>Power Supply</b>	1x HPE ML30 Gen10 Plus 350W FIO Power Supply Kit	1x HPE ML30 Gen10 Plus 350W FIO Power Supply Kit	P65095-001, P65095-291 & P65095-371: 1x HPE 500W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit <b>Notes:</b> Add a second 500W Flex Slot Power Supply to get 1+1 power redundancy feature.
			P65095-421: 1x HPE 800W Flex Slot Titanium Hot Plug Low Halogen Power Supply Kit <b>Notes:</b> Add a second 800W Flex Slot Power Supply to get 1+1 power redundancy feature. - 800W power supply only in EMEA for EU Lot 9 Compliance.
<b>Fans</b>	1x Non-hot plug non-redundant system fan		
<b>Security</b>	P65093-001, P65093-291, P65093-371 & P65093-421: TPM (Trusted Platform Module)	TPM (Trusted Platform Module)	TPM (Trusted Platform Module)
	P65093-AA1: TPM disabled for shipments to China		
<b>Form Factor</b>	4U Tower		
<b>Warranty</b>	Server Warranty includes 3-Year Parts, 1-Year Labor, 1-Year Onsite support with next business day response <b>Notes:</b> APAC, Japan, and PRC Server Warranty includes 3-Year parts, 3-Year Labor, 3-Year Onsite support with next business day response		

### Pre-configured Models

Smart Choice Models			
<b>SKU Number</b>	P71385-425	P71387-425	P71388-035
<b>Model Name</b>	HPE ProLiant ML30 Gen11 E-2414 2.6GHz 4c 1P 32GB-DR 4LFF-NHP VROC 2x1TB SATA HDD 350W PS EU Server	HPE ProLiant ML30 Gen11 E-2434 3.4GHz 4c 1P 32GB-DR 8SFF VROC 2x480GB SATA SSD 800W RPS EU Server	HPE ProLiant ML30 Gen11 E-2434 3.4GHz 4c 1P 32GB-DR 8SFF VROC 2x480GB SATA SSD 800W RPS UK/IE Server
<b>Chassis</b>	HPE ProLiant ML30 Gen11 4LFF Non-hot Plug Configure-to-order Server	HPE ProLiant ML30 Gen11 8SFF Hot Plug Configure-to-order Server	HPE ProLiant ML30 Gen11 8SFF Hot Plug Configure-to-order Server
<b>Processor</b>	E-2414 (4 core, 2.6 GHz, 55W)	E-2434 (4 core, 3.4 GHz, 55W)	E-2434 (4 core, 3.4 GHz, 55W)
<b>Number of Processors</b>	One		
<b>Memory</b>	32 GB (1x32 GB UDIMM, 4800 MT/s)		
<b>Network Controller</b>	Embedded 1Gb 4-Port Ethernet Adapter		
<b>Storage Controller</b>	Embedded Intel VROC SATA software RAID <b>Notes:</b> SATA Only - NHP models do not support internal Smart Array controllers		
<b>Included Hard Drives</b>	2x 1TB SATA HDD	2x 480GB SATA SSD	2x 480GB SATA SSD
<b>Optical Drive Bay</b>	Optional Slimline ODD Bay Kit (P65102-B21) consumes 1 media bay <b>Notes:</b> Up to 1 optical drive bay		
<b>Optical Drive</b>	None ship standard; ODD Optional		
<b>Power Supply</b>	1x HPE ML30 Gen10 Plus 350W FIO Power Supply Kit	1x HPE 800W Flex Slot Titanium Hot Plug Low Halogen Power Supply Kit <b>Notes:</b> – Add a second 800W Flex Slot Power Supply to get 1+1 power redundancy feature. – 800W power supply only in EMEA for EU Lot 9 Compliance.	1x HPE 800W Flex Slot Titanium Hot Plug Low Halogen Power Supply Kit <b>Notes:</b> – Add a second 800W Flex Slot Power Supply to get 1+1 power redundancy feature. – 800W power supply only in EMEA for EU Lot 9 Compliance.
<b>Fans</b>	1x Non-hot plug non-redundant system fan		
<b>Security</b>	TPM (Trusted Platform Module)		



Pre-configured Models

<b>Form Factor</b>	4U Tower
<b>Warranty</b>	Server Warranty includes 3-Year Parts, 1-Year Labor, 1-Year Onsite support with next business day response <b>Notes:</b> APAC, Japan, and PRC Server Warranty includes 3-Year parts, 3-Year Labor, 3-Year Onsite support with next business day response

### Pre-configured Models

Smart Choice Models			
<b>SKU Number</b>	P71389-035	P72995-005	P72996-005
<b>Model Name</b>	HPE ProLiant ML30 Gen11 E-2414 2.6GHz 4c 1P 32GB-DR 4LFF-NHP VROC 2x1TB SATA HDD 350W PS UK Server	HPE ProLiant ML30 Gen11 E-2434 4-core 1P 32GB-R MR216i-p 8SFF 2x960GB SSD 2x500W RPS NA Server	HPE ProLiant ML30 Gen11 E-2434 3.4GHz 4-core 1P 32GB-R MR216i-p 4LFF-HP 2x2TB HDD 500W RPS NA Server
<b>Chassis</b>	HPE ProLiant ML30 Gen11 4LFF Non-hot Plug Configure-to-order Server	HPE ProLiant ML30 Gen11 8SFF Hot Plug Configure-to-order Server	HPE ProLiant ML30 Gen11 4LFF Hot Plug Configure-to-order Server
<b>Processor</b>	E-2414 (4 core, 2.6 GHz, 55W)	E-2434 (4 core, 3.4 GHz, 55W)	E-2434 (4 core, 3.4 GHz, 55W)
<b>Number of Processors</b>	One		
<b>Memory</b>	32 GB (1x32 GB UDIMM, 4800 MT/s)		
<b>Network Controller</b>	Embedded 1Gb 4-Port Ethernet Adapter		
<b>Storage Controller</b>	Embedded Intel VROC SATA software RAID <b>Notes:</b> – SATA Only – NHP models do not support internal Smart Array controllers	HPE MR216i-p Gen11 x16 Lanes without Cache PCI SPDM Plug-in Storage Controller	HPE MR216i-p Gen11 x16 Lanes without Cache PCI SPDM Plug-in Storage Controller
<b>Included Hard Drives</b>	2x 1TB SATA HDD	2x 960GB SATA SSD	2x 2TB SATA HDD
<b>Optical Drive Bay</b>	Optional Slimline ODD Bay Kit (P65102-B21) consumes 1 media bay <b>Notes:</b> Up to 1 optical drive bay		
<b>Optical Drive</b>	None ship standard; ODD Optional		
<b>Power Supply</b>	1x HPE ML30 Gen10 Plus 350W FIO Power Supply Kit	2x HPE 500W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit	1x HPE 500W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit
<b>Fans</b>	1x Non-hot plug non-redundant system fan		
<b>Security</b>	TPM (Trusted Platform Module)		
<b>Form Factor</b>	4U Tower		

## Pre-configured Models

<b>Warranty</b>	Server Warranty includes 3-Year Parts, 1-Year Labor, 1-Year Onsite support with next business day response <b>Notes:</b> APAC, Japan, and PRC Server Warranty includes 3-Year parts, 3-Year Labor, 3-Year Onsite support with next business day response
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### Pre-configured Models

Smart Choice Models		
<b>SKU Number</b>	P75337-D65	P75338-D65
<b>Model Name</b>	HPE ProLiant ML30 Gen11 E-2434 3.4GHz 4c 1P 32GB-DR 8SFF 480GB SSD 2x500W RPS IN Server	HPE ProLiant ML30 Gen11 E-2414 2.6GHz 4c 1P 32GB-DR 4LFF 1TB HDD 350W PS IN Server
<b>Chassis</b>	HPE ProLiant ML30 Gen11 8SFF Hot Plug Configure-to-order Server	HPE ProLiant ML30 Gen11 4LFF Non-hot Plug Configure-to-order Server
<b>Processor</b>	E-2434 (4 core, 3.4 GHz, 55W)	E-2414 (4 core, 2.6 GHz, 55W)
<b>Number of Processors</b>	One	
<b>Memory</b>	32 GB (1x32 GB UDIMM, 4800 MT/s)	
<b>Network Controller</b>	Embedded 1Gb 4-Port Ethernet Adapter	
<b>Storage Controller</b>	Embedded Intel VROC SATA software RAID	
<b>Included Hard Drives</b>	480GB SATA SSD	1TB SATA HDD
<b>Optical Drive Bay</b>	Optional Slimline ODD Bay Kit (P65102-B21) consumes 1 media bay <b>Notes:</b> Up to 1 optical drive bay	
<b>Optical Drive</b>	None ship standard; ODD Optional	
<b>Power Supply</b>	2x HPE 500W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit	1x HPE ML30 Gen10 Plus 350W FIO Power Supply Kit
<b>Fans</b>	1x Non-hot plug non-redundant system fan	
<b>Security</b>	TPM (Trusted Platform Module)	
<b>Form Factor</b>	4U Tower	
<b>Warranty</b>	Server Warranty includes 3-Year Parts, 1-Year Labor, 1-Year Onsite support with next business day response <b>Notes:</b> APAC, Japan, and PRC Server Warranty includes 3-Year parts, 3-Year Labor, 3-Year Onsite support with next business day response	

## Pre-configured Models

### Country Code Key

- -001 = North America
- -005 = HPE Smart Choice for US and Canada
- -035 = HPE Smart Choice for United Kingdom
- -291 = Japan
- -371 = Asia Pacific
- -421 = Europe, the Middle East and Africa
- -425 = HPE Smart Choice for DACH (Germany, Switzerland, Austria), France, UKI (Great Britain, Ireland, Scotland, Wales)
- -AA1 = China
- -D65 = HPE Smart Choice for India

### HPE Smart Choice purchase program

- HPE Smart Choice purchase program is designed to make it easier to do business with HPE by offering fully configured solutions.
- Order popular configs in a single SKU.
- Get immediate purchase price in minutes.
- Get fast, predictable shipping.

**Notes:** Not all models are available in all regions. Check with your local country Hewlett Packard Enterprise offices for availability

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### Configuration Information

This section lists some of the steps required to configure a Factory Integrated Model. To ensure only valid configurations are ordered, Hewlett Packard Enterprise recommends the use of an HPE approved configurator. Contact your local sales representative for information on configurable product offerings and requirements.

1. Factory Integrated Models must start with a CTO Server.
2. FIO indicates that this option is only available as a factory installable option.
3. All Factory Integrated Models will be populated with sufficient hard drive blanks based on the number of initial hard drives ordered with the server.

4. Some options may not be integrated at the factory. Contact your local sales representative for additional information.

**Notes:** European Union (EU) eco-design regulations for server and storage products, known as Lot 9, go into effect on March 1st, 2020. Among other requirements, for servers this directive establishes power thresholds for idle state, as well as efficiency and performance in active state which vary among configurations. HPE ProLiant ML30 Gen10 and Gen10 Plus servers are compliant with Lot 9 requirements. For more information regarding HPE Lot 9 conformance, please visit:

<https://www.hpe.com/us/en/about/environment/msds-specs-more/erp-lot9-servers.html>.

### Step 1: Base Configuration (choose one of the following configurable models)

<b>CTO Server</b>	HPE ProLiant ML30 Gen11 4LFF Non-hot Plug Configure-to-order Server	HPE ProLiant ML30 Gen11 4LFF Hot Plug Configure-to-order Server	HPE ProLiant ML30 Gen11 8SFF Hot Plug Configure-to-order Server
<b>SKU Number</b>	P65090-B21	P65091-B21	P65092-B21
<b>TAA SKU*</b>	P65090-B21#GTA	P65091-B21#GTA	P65092-B21#GTA
<b>Processor Socket</b>	1	1	1
<b>Processor</b>	Not included as standard	Not included as standard	Not included as standard
<b>DIMM Slots</b>	16 GB UDIMM DDR5 4800 MT/s (1x 16 GB) <b>Notes:</b> Runs at 4400 MT/s due to processor limitation.		
<b>Storage Controller</b>	Embedded Intel® VROC SATA software RAID	Embedded Intel® VROC SATA software RAID, choice of HPE Smart Array controller	
<b>PCIe</b>	1 PCIe 5.0 slots, 3 PCIe 4.0 slots		
<b>Drive Cage</b>	4 LFF Non Hot Plug	4 LFF Hot Plug	8 SFF Hot Plug
<b>M.2 Slot</b>	1 M.2 PCIe 3.0 x2/NVMe slot	1 M.2 PCIe 3.0 x2/NVMe slot	1 M.2 PCIe 3.0 x2/NVMe slot
<b>Network Controller</b>	HPE embedded 1Gb 4-port BCM5719 network adapter, choice of optional standup cards		
<b>Fans</b>	1 non-hot plug non-redundant system fan		
<b>Management</b>	HPE iLO Standard with Intelligent Provisioning (embedded), HPE OneView Standard (requires download), HPE iLO Advanced, HPE iLO Advanced Premium Security Edition, and HPE OneView Advanced (require licenses)		
<b>USB**</b>	8 standard: 2 front (1 optional for iLO Mgmt only), 4 rear, 2 internal		
<b>Security</b>	Embedded TPM <b>Notes:</b> Disabled on shipments to China		

### Configuration Information

**Notes:** \*HPE offers multiple Trade Agreement Act (TAA) compliant configurations to meet the needs of US Federal Government customers. These products are either manufactured or substantially transformed in a designated country.

\*\* When the server is in standby mode, the rear USB ports will have no power. Connected devices will not charge nor be able to wake the server from standby mode.

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### Step 2: Choose Required Options

Please select one processor required below.

#### Notes:

- Only one processor is supported.
- DDR5 speed is the maximum memory speed of the processor. Actual memory speed may depend on the quantity and type of DIMMs installed.
- DL20 Gen11 with new Intel Xeon E-2400 processors comes with BCM 5719 quad port 4Gb network controller on board and supports 4x 1Gb Ethernet ports. An additional CPU baffle will be integrated in server if 95W processor is selected.

### Step 2a: Choose Processors

#### Intel® Xeon® E-2300 Series

Intel Xeon E-2488 3.2GHz 8-core 95W FIO Processor for HPE P65218-B21

**Notes:** Requires High Performance Heatsink (P65108-B21).

Intel Xeon E-2478 2.8GHz 8-core 80W FIO Processor for HPE P65219-B21

Intel Xeon E-2486 3.5GHz 6-core 95W FIO Processor for HPE P65221-B21

**Notes:** Requires High Performance Heatsink (P65108-B21).

Intel Xeon E-2468 2.6GHz 8-core 65W FIO Processor for HPE P65220-B21

Intel Xeon E-2456 3.3GHz 6-core 80W FIO Processor for HPE P65222-B21

Intel Xeon E-2436 2.9GHz 6-core 65W FIO Processor for HPE P65223-B21

Intel Xeon E-2434 3.4GHz 4-core 55W FIO Processor for HPE P65224-B21

Intel Xeon E-2414 2.6GHz 4-core 55W FIO Processor for HPE P65225-B21

#### Intel® Pentium® Processor G Series

Intel Pentium G7400 3.7GHz 2-core 46W FIO Processor for HPE P65226-B21

#### Notes:

– HPE NS204i-u Gen11 NVMe Hot Plug Boot Optimized Storage Device (P48183-B21) is not supported with Intel Pentium® Processors

– Pentium G7400 does not comply with Energy Star 4.0.

### Step 2b: Choose Memory Options

Please select one or more memory from below.

#### Notes:

### Configuration Information

- HPE memory from previous generation servers is not qualified or warranted with this HPE ProLiant Server.
- HPE Standard Memory (UDIMM) is required to realize the memory performance improvements and enhanced functionality listed in this document for this HPE ProLiant Server.
- The maximum speed capability of the memory system is governed by the combination of the CPU and any other DIMMs installed in the server. If higher speed DIMMs are installed with a CPU that only supports a lower memory speed, the DIMMs will only run at the (lower) memory speed supported by the processor. Likewise, if memory DIMMs are mixed with slower DIMMs within a server, all DIMMs will run at the slower memory speed. For further information please refer to the Memory Population Rules for your specific server.
- With one processor installed, four DIMMs slots are available, two slots per channel. Each channel can be populated with one DIMM (1DPC) or two DIMMs (2DPC).
- The quantity of memory DIMMS selected is recommended to be 1, 2 or 4 for balanced performance.
- Symmetric configurations are required within each channel (e.g., 1R/1R, 2R/2R), meaning the same DIMM capacity (16GB or 32GB) is required when populating within each channel.
- The maximum memory speed is a function of the memory type, memory configuration, and processor model.
- For Server Memory Population Rules for HPE ProLiant Gen11 Servers with Intel® Xeon® E-2400 Processors see details here: <http://www.hpe.com/docs/server-memory>

### Memory

HPE 16GB (1x16GB) Single Rank x8 DDR5-4800 CAS-40-39-39 Unbuffered Standard Memory Kit	P64336-B21
HPE 32GB (1x32GB) Dual Rank x8 DDR5-4800 CAS-40-39-39 Unbuffered Standard Memory Kit	P64339-B21

### Notes:

- Running at up to 4400 MT/s with Intel® Xeon® processors when two dual-rank DIMMS are installed in different channels.
- HPE Server Memory compatibility for a specific server platform may vary or be limited within a server platform depending upon the specific configuration being requested. Because each server environment and requirements can vary, memory compatibility is based not only upon the server family but may also be affected by the amount and type of additional hardware options installed within a specific server configuration. For this reason, some HPE memory DIMMs may be qualified for an HPE server model or family and yet occasionally not be supported with some configurations within that server family.

### Step 2c: Choose Power Supplies

Please select one or two power supplies from below.

### Notes:



## Configuration Information

- The mixing of 2 different power supplies is NOT allowed.
- Selection of two HPE Flex Slot power supplies provide 1+1 power redundancy.
- To review the power requirements for your selected configuration, please use the [HPE Power Advisor Tool](#).

### Power Supplies

HPE ML30 Gen10 Plus 350W FIO Power Supply Kit	P45212-B21
HPE 500W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit	865408-B21
HPE 800W Flex Slot Titanium Hot Plug Low Halogen Power Supply Kit	865438-B21
HPE 1000W Flex Slot Titanium Hot Plug Power Supply Kit	P03178-B21

### Notes:

- Selection of Flex Slot Redundant power supplies requires selection of the RPS Enablement Kit (P65104-B21)

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## Step 3: Choose additional options for Factory Integration from Core and Additional Options sections below

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### Core Options

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

#### HPE Unique Options

HPE ProLiant ML30 Optical Disk Drive Slimline Enablement Kit P65102-B21

**Notes:** Required if ODD is selected.

HPE ProLiant ML30 Gen11 Front PCI Fan and Baffle Kit P65106-B21

**Notes:**

– Included in pre-configured Performance Models.

– Must be selected in 4LFF Hot Plug CTO Server and 8SFF Hot Plug CTO Server.

– Must be selected in 4LFF NHP CTO Server and pre-configured Entry Models if M.2 SSD or any PCIe card (NIC, Smart Array Controller, graphic card, etc.) is selected except the E208e-p controller and 1Gb network adapters.

HPE ProLiant ML30 Gen10 Plus BCM Controller Cable Kit P57104-B21

**Notes:**

– Required if MR216i-p controller is selected; 1 pc for 4LFF model server.

– The cable cannot be used with Non Hot Plug model server

HPE ML30 Gen10 Plus 350W FIO Power Supply Kit P45212-B21

**Notes:** Required for HPE 350W Non-Redundant ATX Power Supplies.

HPE ProLiant ML30 Gen11 4U RPS Enablement Kit P65104-B21

**Notes:** Required for HPE 500W, 800W and 1000W Redundant Flex Slot Power Supplies.

HPE ProLiant ML30 Gen11 iLO/NIC/M.2/COM Port Kit P65741-B21

**Notes:** This kit includes one dedicated iLO module and one serial port cable, with one M.2 slot on the module for M.2 SSD installation.

HPE ProLiant ML30 Gen11 Plus CPU High Performance FIO Heat Sink Kit P65108-B21

**Notes:** Required for processors with TDP equal to 95W.

HPE ML Gen10 Tower to Rack Conversion Kit with Sliding Rail Rack Shelf and Cable Management Arm 874578-B21

**Notes:** Easy to install rack rail tray which takes up 1U height in a standard rack facility. This conversion kit only provides shelf function for ML30 Gen10 Plus and does support the Cable Management Arm.

HPE ML30 Gen9 Tape Drive Cable Kit 851615-B21

**Notes:** 1pc required per LTO internal tape drive or per RDX USB internal disk backup systems for power connection if selected together with 350W Power Supply (P21652-B21).

HPE ProLiant ML30 Gen11 SFF PCIe Cable Kit P67850-B21

**Notes:** Required for 8SFF model with controller only.

HPE ProLiant ML30 Gen11 NS204i-u Cable Kit P65098-B21

**Notes:** Required to support NC204i-u OS Boot Device

HPE ProLiant ML30 Gen11 LTO Cable Kit P65100-B21

## Core Options

**Notes:** 1pc required per LTO Internal tape drive if selected with 350W Power Supply

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**HPE Memory****Notes:**

- The maximum memory speed is a function of the memory type, memory configuration, and processor model.
- See the General Memory Population Rules and Guidelines section for more details.

**Unbuffered DIMMs (ECC UDIMMs)**

HPE 16GB (1x16GB) Single Rank x8 DDR5-4800 CAS-40-39-39 Unbuffered Standard Memory Kit P64336-B21

HPE 32GB (1x32GB) Dual Rank x8 DDR5-4800 CAS-40-39-39 Unbuffered Standard Memory Kit P64339-B21

**Notes:** HPE Server Memory compatibility for a specific server platform may vary or be limited within a server platform depending upon the specific configuration being requested. Because each server environment and requirements can vary, memory compatibility is based not only upon the server family but may also be affected by the amount and type of additional hardware options installed within a specific server configuration. For this reason, some HPE memory DIMMs may be qualified for an HPE server model or family and yet occasionally not be supported with some configurations within that server family.

**HPE Optical Disk Drives**

HPE 9.5mm SATA DVD-ROM Optical Drive 726536-B21

**Notes:** The HPE ML30 Gen11 Slim Optical Disk Drive Enablement Kit (P65102-B21) is required for this option.

HPE 9.5mm SATA DVD-RW Optical Drive 726537-B21

**Notes:** The HPE ML30 Gen11 Slim Optical Disk Drive Enablement Kit (P65102-B21) is required for this option.

HPE Mobile USB DVD-RW Optical Drive 701498-B21

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**HPE Hard Disk Drives**

**Notes:** For the most up to date HDD & SSDs options available Hewlett Packard Enterprise recommends the use of a Hewlett Packard Enterprise approved configurator.

**Enterprise - 12G SAS - SFF Basic Carrier Drives**

**HPE 300GB SAS 12G Mission Critical 10K SFF BC 3-year Warranty Multi Vendor HDD** P40430-B21

HPE 600GB SAS 12G Mission Critical 10K SFF BC 3-year Warranty Multi Vendor HDD P53561-B21

HPE 1.2TB SAS 12G Mission Critical 10K SFF BC 3-year Warranty Multi Vendor HDD P28586-B21

HPE 1.8TB SAS 12G Mission Critical 10K SFF BC 3-year Warranty 512e Multi Vendor HDD P53562-B21

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## Core Options

HPE 2.4TB SAS 12G Mission Critical 10K SFF BC 3-year Warranty 512e Multi Vendor HDD P28352-B21

**Midline - 12G SAS - LFF Low Profile Carrier Drives**

HPE 2TB SAS 12G Business Critical 7.2K LFF LP 1-year Warranty Multi Vendor HDD 833926-B21

HPE 4TB SAS 12G Business Critical 7.2K LFF LP 1-year Warranty Multi Vendor HDD 833928-B21

HPE 6TB SAS 12G Business Critical 7.2K LFF LP 1-year Warranty 512e Multi Vendor HDD 861746-B21

HPE 8TB SAS 12G Business Critical 7.2K LFF LP 1-year Warranty 512e Multi Vendor HDD 834031-B21

HPE 12TB SAS 12G Business Critical 7.2K LFF LP 1-year Warranty Helium 512e Multi Vendor HDD 881781-B21

HPE 16TB SAS 12G Business Critical 7.2K LFF LP 1-year Warranty Helium 512e ISE Multi Vendor HDD P23608-B21

HPE 20TB SAS 12G Business Critical 7.2K LFF LP 1-year Warranty Helium 512e ISE Multi Vendor HDD P53553-B21

**Midline - 6G SATA - LFF Low Profile Carrier Drives**

HPE 1TB SATA 6G Business Critical 7.2K LFF LP 1-year Warranty Multi Vendor HDD 861686-B21

HPE 2TB SATA 6G Business Critical 7.2K LFF LP 1-year Warranty Multi Vendor HDD 861681-B21

HPE 4TB SATA 6G Business Critical 7.2K LFF LP 1-year Warranty Multi Vendor HDD 861683-B21

HPE 6TB SATA 6G Business Critical 7.2K LFF LP 1-year Warranty 512e Multi Vendor HDD 861742-B21

HPE 8TB SATA 6G Business Critical 7.2K LFF LP 1-year Warranty 512e Multi Vendor HDD 834028-B21

HPE 12TB SATA 6G Business Critical 7.2K LFF LP 1-year Warranty Helium 512e Multi Vendor HDD 881787-B21

HPE 16TB SATA 6G Business Critical 7.2K LFF LP 1-year Warranty Helium 512e ISE Multi Vendor HDD P23449-B21

HPE 20TB SATA 6G Business Critical 7.2K LFF LP 1-year Warranty Helium 512e ISE Multi Vendor HDD P53554-B21

**6G SATA - LFF NHP/Raw 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

**Notes:** ML30 Gen10 Plus supports up to SAS 12G. Performance downgraded to 12G is expected once SAS 24G drive is installed in ML30 Gen10 Plus system.

**HPE Solid State Drives**

For SSD selection guidance, please visit <https://ssd.hpe.com/>.

**Notes:** For the most up to date HDD & SSDs options available Hewlett Packard Enterprise recommends the use of a Hewlett Packard Enterprise approved configurator.

**Read Intensive - 24G SAS - SFF Basic Carrier Solid State Drives**

HPE 7.68TB SAS 24G Read Intensive SFF BC Multi Vendor SSD **P49041-B21**

**Mixed Use - 12G Value SAS - SFF Basic Carrier Solid State Drives**

## Core Options

HPE 960GB SAS 12G Mixed Use SFF BC Value SAS Multi Vendor SSD	<b><u>P40510-B21</u></b>
<b>Read Intensive - 12G Value SAS - SFF Basic Carrier Solid State Drives</b>	
HPE 960GB SAS 12G Read Intensive SFF BC Value SAS Multi Vendor SSD	<b><u>P40506-B21</u></b>
<b>Mixed Use - 6G SATA - SFF Basic Carrier Solid State Drives</b>	
HPE 480GB SATA 6G Mixed Use SFF BC Multi Vendor SSD	P40502-B21
HPE 960GB SATA 6G Mixed Use SFF BC Self-encrypting 5400M SSD	<b><u>P58244-B21</u></b>
HPE 960GB SATA 6G Mixed Use SFF BC Multi Vendor SSD	P40503-B21
HPE 1.92TB SATA 6G Mixed Use SFF BC Multi Vendor SSD	P40504-B21
HPE 1.92TB SATA 6G Mixed Use SFF BC Self-encrypting 5400M SSD	<b><u>P58248-B21</u></b>
HPE 3.84TB SATA 6G Mixed Use SFF BC Multi Vendor SSD	P40505-B21
<b>Read Intensive - 6G SATA - SFF Basic Carrier Solid State Drives</b>	
HPE 240GB SATA 6G Read Intensive SFF BC Multi Vendor SSD	P40496-B21
HPE 480GB SATA 6G Read Intensive SFF BC PM893a SSD	P63886-B21
HPE 480GB SATA 6G Read Intensive SFF BC Self-encrypting 5400P SSD	<b><u>P58236-B21</u></b>
HPE 480GB SATA 6G Read Intensive SFF BC Multi Vendor SSD	<b><u>P40497-B21</u></b>
HPE 960GB SATA 6G Read Intensive SFF BC Multi Vendor SSD	P40498-B21
HPE 1.92TB SATA 6G Read Intensive SFF BC Multi Vendor SSD	P40499-B21
HPE 1.92TB SATA 6G Read Intensive SFF BC Self-encrypting 5400P SSD	<b><u>P58240-B21</u></b>
HPE 3.84TB SATA 6G Read Intensive SFF BC PM893a SSD	P63910-B21
HPE 3.84TB SATA 6G Read Intensive SFF BC Multi Vendor SSD	P40500-B21
HPE 7.68TB SATA 6G Read Intensive SFF BC Multi Vendor SSD	P40501-B21
<b>Read Intensive - 6G SATA - LFF Low Profile Carrier Solid State Drives</b>	
HPE 960GB SATA 6G Read Intensive LFF LPC Multi Vendor SSD	P47808-B21
<b>Read Intensive - NVMe - M.2 - Solid State Drives</b>	
HPE 480GB NVMe Gen4 Mainstream Performance Read Intensive M.2 PM9A3 SSD	P69543-B21

## Hard Drive Kits

HPE Small Form Factor Hard Drive Blank Kit	666987-B21
HPE Gen9 LFF HDD Spade Blank Kit	807878-B21

## HPE Boot Devices

## HPE Boot Controllers

HPE NS204i-u Gen11 NVMe Hot Plug Boot Optimized Storage Device	P48183-B21
HPE ProLiant ML30 Gen11 NS204i-u Cable Kit	P65098-B21

## Notes:

– The N204i-u Boot device includes 2x 480GB M.2 NVMe SSDs, with preconfigured hardware RAID1. For additional information, please see the [HPE OS Boot Device](#)

### Core Options

QuickSpecs.

- Selection of the HPE NS204i-u Gen11 NVMe Hot Plug Boot Optimized Storage Device requires selection of the HPE ProLiant ML30 Gen11 NS204i-u Hot Plug Boot Optimized Storage Device Cable Kit. Both the device and the enablement kit are required to be selected together.
  - The HPE N204i-u Boot device and Optical Disk Drives can not be selected together.
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### HPE Storage Controllers

The Gen11 storage controller portfolio has been updated to include new technology. For a more detailed breakout of the available Gen11 controllers visit the storage controllers QuickSpecs site:

#### Essential RAID Controllers

HPE Smart Array E208e-p SR Gen10 (8 External Lanes/No Cache) 12G SAS PCIe Plug-in Controller 804398-B21

##### Notes:

- To be used for external storage only.
- Must select 1pc of Mini SAS Cable Kit (P06307-B21) for 4LFF Hot Plug Server.
- Must select 2pcs of Mini SAS Cable Kit (P06307-B21) for 8SFF Hot Plug Server.
- Does not support Non Hot Plug Server

#### HPE Tri-Mode Controllers

HPE MR416i-p Gen11 x16 Lanes 8GB Cache PCI SPDM Plug-in Storage Controller P47777-B21  
HPE MR216i-p Gen11 x16 Lanes without Cache PCI SPDM Plug-in Storage Controller P47785-B21

##### Notes:

- Tri-Mode controllers are not supported on the 4LFF Non-Hot Plug Model Server.
- Max 1 pc of MR416i-p or MR216i-p can be selected for better performance.
- Must select 1pc HPE ML30 Gen10+ BCM Cbl Kit (P57104-B21) for 4LFF Hot Plug Server.
- Must select 1pc HPE ML30 Gen11 SFF PCIe Cbl Kit (P67850-B21) for 8SFF Hot Plug Server.
- Tri-Mode controller selection requires selection of either P01367-B21 - HPE 96W Smart Storage Lithium-ion Battery with 260mm Cable Kit or P02381-B21 - HPE Smart Storage Hybrid Capacitor with 260mm Cable Kit

### Optional Software

## Core Options

HPE Smart Array SR Secure Encryption (Data at Rest Encryption/per Server Entitlement) E-LTU	Q2F26AAE
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**Notes:** SmartCache is offered on HPE Smart Array performance RAID controllers.

**HPE Energy Packs**

HPE 96W Smart Storage Lithium-ion Battery with 260mm Cable Kit	P01367-B21
HPE Smart Storage Hybrid Capacitor with 260mm Cable Kit	P02381-B21
HPE ML150 Gen9 Smart Storage Battery Holder Kit	786710-B21

**Notes:**

- Provides backup power for multiple HPE Smart Array controllers or other devices. Is required with performance RAID controllers.
- Max storage battery qty to be one per DL20 Gen11 server.
- HPE 96W Smart Storage Battery 260mm Cbl (P01367-B21) and HPE Smart Hybrid Capacitor w/ 260mm Cbl (P02381-B21) cannot be selected together.
- A Battery holder is required: HPE Gen9 Smart Storage Battery Holder Kit (786710-B21).

**HPE Networking****1 Gigabit Ethernet adapters**

Broadcom BCM5719 Ethernet 1Gb 4-port BASE-T Adapter for HPE	P51178-B21
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**10 Gigabit Ethernet adapters**

Broadcom BCM57416 Ethernet 10Gb 2-port BASE-T Adapter for HPE	P26253-B21
Broadcom BCM57412 Ethernet 10Gb 2-port SFP+ Adapter for HPE	P26259-B21

**25 Gigabit Ethernet adapters**

Broadcom BCM57414 Ethernet 10/25Gb 2-port SFP28 Adapter for HPE	P26262-B21
Broadcom BCM57504 Ethernet 10/25Gb 4-port SFP28 Adapter for HPE	P26264-B21
Intel E810-XXVDA2 Ethernet 10/25Gb 2-port SFP28 Adapter for HPE	P08443-B21
Intel E810-XXVDA4 Ethernet 10/25Gb 4-port SFP28 Adapter for HPE	P08458-B21
Mellanox MCX631102AS-ADAT Ethernet 10/25Gb 2-port SFP28 Adapter for HPE	P42044-B21

**Notes:**

- Any PCIe card selection requires selection of the HPE ML30 Gen11 Front PCI Fan and Baffle Kit (P65106-B21)
- SAS controllers (internal and external) and PCIe Gen5 x16 card cannot be selected together as both need to be installed on slot 1
- If controller x8 and PCIe x8 card is selected together, then the controller should be installed on Slot 1 and PCIe x8 card on slot 2



### Core Options

#### HPE Power Supplies

HPE ML30 Gen10 Plus 350W FIO Power Supply Kit P45212-B21

**Notes:** Up to one is allowed.

HPE 500W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit 865408-B21

HPE 800W Flex Slot Titanium Hot Plug Low Halogen Power Supply Kit 865438-B21

HPE 1000W Flex Slot Titanium Hot Plug Power Supply Kit P03178-B21

HPE ProLiant ML30 Gen11 4U RPS Enablement Kit P65104-B21

#### Notes:

- Flex Slot Platinum power supplies support power efficiency of up to 96% and include a standard C-14 power inlet connector. If a different power cord is required, please check the [ProLiant Power Cables](#) web page.
  - To review the power requirements for your selected system, please use the [HPE Power Advisor Tool](#).
  - If a 2nd power supply is order for redundancy, its part number must be the same as the 1st power supply. Mixing of power supplies is not supported.
  - The RPS Enablement Kit (P65104-B21) is required to support Flex Slot power supplies.
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#### HPE Cooling Options

HPE ProLiant ML30 Gen11 Front PCI Fan and Baffle Kit P65106-B21

#### Notes:

- Included in pre-configured Performance Models.
  - Must be selected in 4LFF Hot Plug CTO Server and 8SFF Hot Plug CTO Server.
  - Must be selected in 4LFF NHP CTO Server and pre-configured Entry Models if an M.2 SSD or any PCIe card (NIC, Smart Array Controller, graphic card, etc.) is selected except the E208e-p controller and 1Gb network adapters.
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### Additional Options

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

#### 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 iLO Common Password Setting

HPE iLO Common Password FIO Setting	P08040-B21
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##### Notes:

- Replaces iLO default randomized password by an HPE defined common password. HPE highly recommends changing this password immediately after the initial onboarding process.
- Customers who want to choose their own custom iLO default password should use the HPE Factory Express Integration Services.

### Software as a Service Management

#### HPE GreenLake for Compute Ops Management

HPE GreenLake for Compute Ops Management Enhanced 3-year Upfront ProLiant SaaS	R7A11AAE
HPE GreenLake for Compute Ops Management Enhanced 5-year Upfront ProLiant SaaS	R7A12AAE

<b>HPE GreenLake for Compute Ops Management Flex Solution Tracking</b>	S2R34AAE
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**Notes:** For more information, visit the [HPE GreenLake for Compute Ops Management QuickSpecs: https://www.hpe.com/psnow/doc/a50004263enw](https://www.hpe.com/psnow/doc/a50004263enw)

#### HPE Security

HPE ProLiant ML30 Gen11 ships with embedded Trusted Platform Module (TPM) 2.0 enabled by default. For servers shipping to China, the TPM is disabled.

### Additional Options

#### HPE Tape Backup

For the complete range of tape drives, autoloaders, libraries and media see:

<https://www.hpe.com/us/en/storage/storeever-tape-storage.html>.

For hardware and software compatibility of Hewlett Packard Enterprise tape backup products

<http://www.hpe.com/storage/BURACompatibility>.

#### HPE Tape Drives

HPE LTO-7 Ultrium 15000 Internal Tape Drive	BB873A
HPE StoreEver LTO-7 Ultrium 15000 External Tape Drive	BB874A
HPE StoreEver LTO-8 Ultrium 30750 Internal Tape Drive	BC022A
HPE StoreEver LTO-8 Ultrium 30750 External Tape Drive	BC023A
HPE StoreEver LTO-9 Ultrium 45000 Internal Tape Drive	BC040A
HPE StoreEver LTO-9 Ultrium 45000 External Tape Drive	BC042A

#### Notes:

- Only 1pc of internal tape drive is supported.
- Internal LTO tape drive requires 1pc of HPE ML30 Gen9 Tape Drive Cable Kit 851615-B21 for power connection if configured with a 350W Power Supply (P21652-B21)
- If LTO tape drive is selected then Internal SAS controller and ML30 Gen11 LTO Cable Kit P65100-B21 must be selected.
- Internal LTO tape drive cannot be selected in Non Hot Plug 4LFF Server.
- Change the Thermal Configuration to Increased Cooling mode in the BIOS/Platform Configuration (RBSU) menu when internal RDX or LTO drive is installed.

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#### HPE Tape Backup Products

HPE StoreEver MSL2024 0-drive Tape Library	AK379A
HPE StoreEver MSL LTO-7 Ultrium 15000 SAS Drive Upgrade Kit	N7P37A
HPE StoreEver Mini-SAS High Density to 4-lane Mini-SAS External Fanout 2m Cable	K2R09A
HPE StoreEver Mini-SAS High Density to 4-lane Mini-SAS External Fanout 4m Cable	K2R10A

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#### 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 Removable Disk Backup Products

HPE RDX External Docking Station	C8S07B
HPE RDX Internal Docking Station	C8S06A
HPE RDX 500GB Removable Disk Cartridge	Q2042A

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### Additional Options

HPE RDX 1TB Removable Disk Cartridge	Q2044A
HPE RDX 2TB Removable Disk Cartridge	Q2046A
HPE RDX 4TB Removable Disk Cartridge	Q2048A

#### Notes:

- Only 1pc of internal RDX is supported.
- Removable disk cartridge can be installed in either External Docking station or Internal Docking station
- Internal RDX docking station requires 1pc of HPE ML30 Gen9 Tape Drive Cable Kit 851615-B21.

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### HPE Uninterruptible Power Systems (UPS)

To learn more, please visit the [HPE Uninterruptible Power Systems \(UPS\) web page](#).

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### HPE Rack Options

#### Rail Kits

**Notes:** HPE rail kits are designed to work with HPE racks in compliance with industry standard EIA-310-E. In the event a customer elects to purchase a third-party rack for use with an HPE rail kit, any such use is at customer's own risk. HPE makes no express or implied warranties with respect to such third-party racks and specifically disclaims any implied warranties of merchantability and fitness for a particular purpose. Furthermore, HPE has no obligation and assumes no liability for the materials, design, specifications, installation, safety, and compatibility of any such third-party racks with any rail kits, including HPE rail kits.

HPE ML Gen10 Tower to Rack Conversion Kit with Sliding Rail Rack Shelf and Cable Management Arm	874578-B21
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### HPE Support Services

#### Installation & Start-up Services

HPE ProLiant DL/ML Install Service	U4554E
HPE ProLiant DL/ML Startup Service	U4555E

**Notes:** For a full list of packaged support services, please visit <http://www.hpe.com/services/ssc>

### Memory

#### HPE Standard Memory

HPE Standard Memory offers the best combination of pricing, quality, reliability and compatibility for HPE ProLiant servers; designed to help your business achieve powerful results with right-sized affordable solutions. It delivers the ideal value that small businesses require to smoothly run a small network server environment and provides entry-level businesses with affordable server memory that has been optimized for HPE entry-level servers. HPE Standard Memory is outstanding for businesses looking for memory with a low acquisition cost, exceptional performance, optimized compatibility, assured reliability, and comprehensive management.

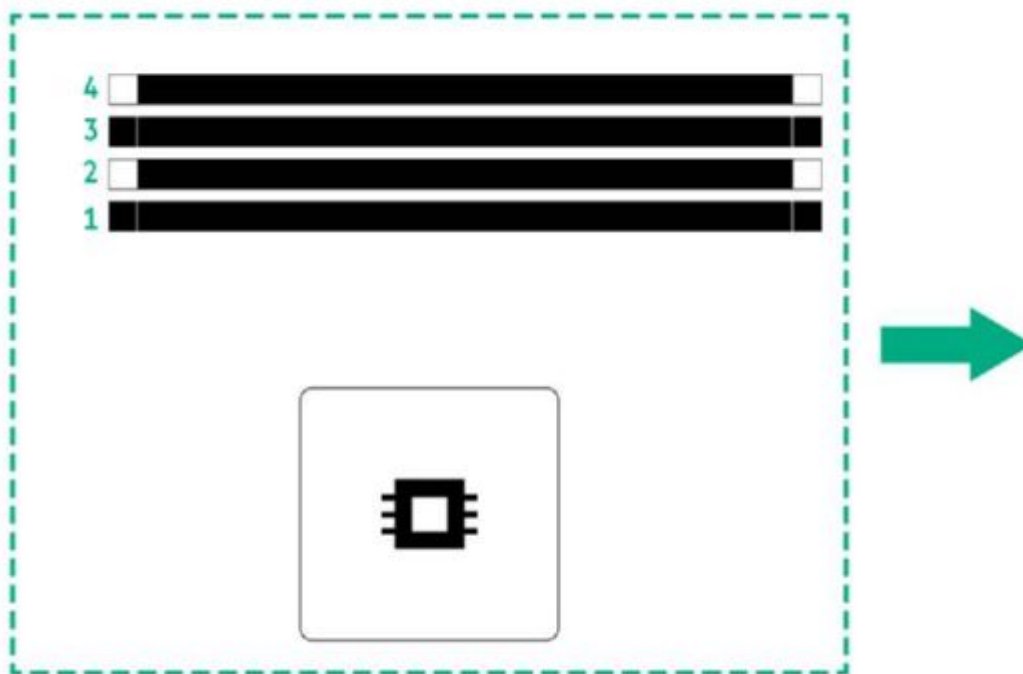
HPE Standard Memory UDIMMs has passed the rigorous Hewlett Packard Enterprise qualification and testing processes.

The memory subsystem in this server supports UDIMMs. The server supports single-rank and dual-rank DDR5 UDIMMs operating at up to 4400 MT/s DIMM speeds.

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#### Memory Population guidelines

The server supports two channels per processor with two DIMMs per channel for a total of four DIMMs per ML30 Gen11 Server.



**HPE ProLiant ML30 Gen11 memory slots**

#### Notes:

- UDIMM maximum configuration (1 CPU model)
- Population order; start with "A" first, "B" second, "C" third, etc.

## Memory

CPU 1		
	Slot #	Population order
Chnl 2	4	B
	3	D
Chnl 1	2	A
	1	C

### General Memory Population Rules and Guidelines:

- The maximum memory speed is a function of the memory type, memory configuration, and processor model.
- The maximum memory capacity is a function of the number of DIMM slots on the platform, the largest DIMM capacity qualified on the platform, the number and model of installed processors qualified on the platform.
- The maximum speed capability of the memory system is governed by the combination of the CPU and any other DIMMs installed in the server. If higher speed DIMMs are installed with a CPU that only supports a lower memory speed, the DIMMs will only run at the (lower) memory speed supported by the processor. Likewise, if memory DIMMs are mixed with slower DIMMs within a server, all DIMMs will run at the slower memory speed. For further information please refer to the Memory Population Rules for your specific server.
- Only ECC UDIMMs are supported on ML30 Gen11. No support for non-ECC UDIMMs.
- There are two channels per processor with two DIMM slots per channel.
- Memory channel 1 consists of the two DIMMs that are closest to the processor.
- Memory channel 2 consists of the two DIMMs that are farthest from the processor.
- A white DIMM slot indicates the first slot of a channel (3-A, 1-B).
- The server supports up to 4400 MT/s ECC UDIMMs (Unbuffered DIMMs).
- The server supports up to 128 GB (4 x 32 GB) UDIMMs.
- The server does not support non-ECC UDIMMs, RDIMMs, and LRDIMMs
- Populate the DIMM on slots in this sequence: 2A, 4B, 1C, 3D.
- Always use HPE qualified DIMMs.
- Cannot mix memory DIMMs of different capacities in the same channel.
- Mixing memory DIMMs of different capacities in the server is not recommended.
- For Server Memory Population Rules for HPE ProLiant Servers with Intel® Xeon® E-2400 Processors see details here: [www.hpe.com/docs/server-memory](http://www.hpe.com/docs/server-memory)
- For details on the HPE Server Memory Options Population Rules, visit: <http://www.hpe.com/docs/memory-population-rules>
- To realize the performance memory capabilities listed in this document, HPE DDR5 Smart Memory is required. For additional information, please see the HPE DDR5 Smart Memory QuickSpecs.

#### Notes:

- The maximum memory speed is a function of the memory type, memory configuration, and processor model.
- For details on the HPE Server Memory speed, visit: <https://www.hpe.com/docs/server-memory>
- HPE Server Memory compatibility for a specific server platform may vary or be limited within a server

### Memory

platform depending upon the specific configuration being requested. Because each server environment and requirements can vary, memory compatibility is based not only upon the server family but may also be affected by the amount and type of additional hardware options installed within a specific server configuration. For this reason, some HPE memory DIMMs may be qualified for an HPE server model or family and yet occasionally not be supported with some configurations within that server family.

DIMM Type	Unbuffered with ECC DIMMs (UDIMMs)	
HPE SKU P/N	P64336-B21	P64339-B21
SKU Description	HPE 16GB (1x16GB) Single Rank x8 DDR5-4800 CAS-40-39-39 Unbuffered Standard Memory Kit	HPE 32GB (1x32GB) Dual Rank x8 DDR5-4800 CAS-40-39-39 Unbuffered Standard Memory Kit
DIMM Rank	Single Rank (1R)	Dual Rank (2R)
DIMM Capacity	16GB	32GB
Voltage	Std Voltage 1.1V VDDQ, 1.8V VPP	Std Voltage 1.1V VDDQ, 1.8V VPP
CAS Latency	36-36-36	36-36-36
DIMM Native Speed (MT/S)	5600 MT/s	5600 MT/s
Slots That Can Be Populated	4	4
Maximum Capacity (Gb)	64 GB (4 x 16 GB)	128 GB (4 x 32 GB)
<b>HPE Server Memory Speed: Intel® Xeon® E processors</b>		
1 DIMM Per Channel	4400 MT/s	4400 MT/s
2 DIMM Per Channel	4000 MT/s	3600 MT/s
<b>HPE Server Memory Speed: Intel® Pentium® G7400 processor</b>		
1 DIMM Per Channel	4400 MT/s	4400 MT/s
2 DIMM Per Channel	4000 MT/s	3600 MT/s

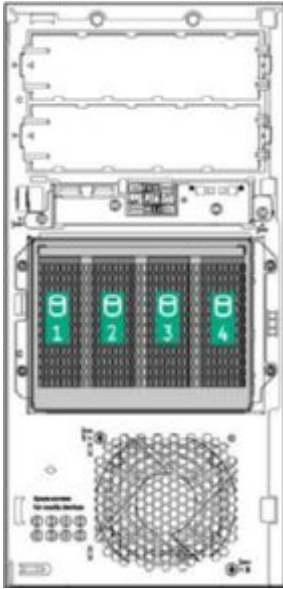
### DDR5 memory options part number decoder

Capacity references are rounded to the common gigabyte (GB) values.

- 16GB = 16,384 MB
- 32GB = 32,768 MB
- 64GB = 65,536 MB
- 128GB = 131,072 MB

For more information on memory, please visit the [HPE DDR5 Standard Memory web site](#).

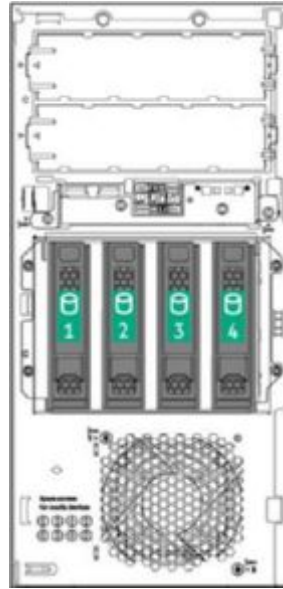
### Storage



**4 LFF Non-Hot-Plug Drive Model**

1-4

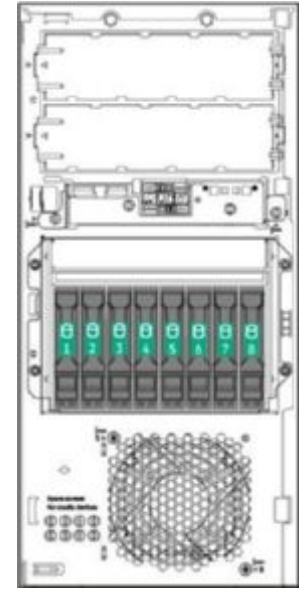
4 x LFF SATA  
non-hot-plug hard drive bays



**4 LFF Hot-Plug Drive Model**

1-4

4 x LFF SAS/SATA/SSD  
hot pluggable hard drive bays



**8 SFF Hot-Plug Drive Model**

1-8

8 x SFF SAS/SATA/SSD  
hot pluggable hard drive bays

### Technical Specifications

#### System Unit Dimensions

- 14.50 (H) x 6.90 (W) x 18.70 (D) in

(36.83 x 17.53 x 47.50 cm)

#### Weight

(approximate)

- Minimum:

22.5 lb

10.2 kg

– 4 NHP LFF chassis with 1x LFF HDD, 1x processor including heatsink, 1x DIMM, 1x ATX power supply, cables for the above.

- Maximum:

41.2lb

18.7 kg

– Fully loaded - 4 Hot-plug LFF chassis with 4x LFF HDDs, 1x DVD-RW, 1x tape drive, 1x processor including heatsink, 4x DIMMs, 2x power supplies, cables for the above.

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#### Input Requirements

(per power supply)

##### Rated Line Voltage

- 100 to 120 VAC
- 200 to 240 VAC

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#### BTU Rating

##### Maximum

- For 350W Power Supply (P21652-B21): 1474 BTU/hr (at 100 VAC), 1419 BTU/hr (at 200 VAC)
- For 500W Power Supply: 1902 BTU/hr (at 100 VAC), 1840 BTU/hr (at 200 VAC), 1832 BTU/hr (at 240 VAC)

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#### Power Supply Output

(per power supply)

- **Rated Steady-State Power**

– For 350W Power Supply: 350W (at 100 to 230 VAC)



### Technical Specifications

– For 500W Power Supply: 500W (at 100 VAC to 240 VAC)

– For 800W Power Supply: 800W (at 200 VAC to 240 VAC)

**Notes:** For 800W Titanium PSU only

– For 1000W Power Supply: 1000W (at 100 VAC TO 240 VAC)

- **Maximum Peak Power**

– For 350W Power Supply: 350W (at 100 to 230 VAC)

– For 500W Power Supply: 500W (at 100 VAC to 240 VAC)

– For 800W Power Supply: 800W (at 200 VAC to 240 VAC)

**Notes:** For 800W Titanium PSU only

– For 1000W Power Supply: 1000W (at 100 VAC TO 240 VAC)

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### System Inlet Temperature

- **Standard Operating Temperature**

10° to 35°C (50° to 95°F) at sea level with an altitude derating of 1.0°C per every 304.8 m (1.8°F per every 1000 ft) above sea level to a maximum of 3048 m (10,000 ft), no direct sustained sunlight. The 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).

- **Extended Ambient Operating Temperature**

For approved hardware configurations, the supported system inlet range is extended 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 900m (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 extended 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 extended ambient operating range or with a fan fault.

- **Non-operating**

## Technical Specifications

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

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### Relative Humidity (non-condensing)

- **Operating**

8% 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.

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### Altitude

- **Operating**

3048 m (10,000 ft). This value may be limited by the type and number of options installed. The 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).

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### Acoustic Noise

Listed are the declared mean A-Weighted sound power levels (LWA,m), declared average bystander position A-Weighted sound pressure levels (LpAm) and the statistical adder for verification, Kv, is a quantity to be added to the declared mean A-weighted sound power level, LWA,m 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.

	Entry	Performance
<b>Idle</b>		
LWA,m	3.8 B	3.8 B
LpAm	22 dBA	24 dBA
Kv	0.4 B	0.4 B
<b>Operating</b>		
LWA,m	3.8 B	3.8 B
LpAm	22 dBA	24 dBA
Kv	0.4 B	0.4 B

### Notes:

–Acoustics levels presented here are generated by the test configurations (Entry and Performance SKUs)

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### Technical Specifications

only. Acoustics levels will vary depending on system configuration. Values are subject to change without notification and are for reference only. A system with additional configuration components or increased operating functionality may increase the noise emission values.

- The declared mean A-weighted sound power level, LWA,m, is computed as the arithmetic average of the measured.
- A-weighted sound power levels for a randomly selected sample, rounded to the nearest 0,1 B.
- The declared mean A-weighted emission sound pressure level, LpA,m, is computed as the arithmetic average of the measured A-weighted emission sound pressure levels at the bystander positions for a randomly selected sample, rounded to the nearest 1 dB.
- The statistical adder for verification, Kv, is a quantity to be added to the declared mean A-weighted sound power level, LWA,m, such that there will be a 95 % probability of acceptance, when using the verification procedures of ISO 9296, if no more than 6,5 % of the batch of new equipment, has A-weighted sound power levels greater than (LWA,m + Kv).
- The quantity, LWA,c (formerly called LWAd), can be computed from the sum of LWA,m and Kv.
- All measurements made to conform to ISO 7779 / ECMA-74 and declared to conform to ISO 9296 / ECMA-109.
- B, dB, abbreviations for bels and decibels, respectively, where 1 B = 10 dB.

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### Emissions Classification (EMC) - Regulatory Information

To view the regulatory information for your product, view the Safety and Compliance Information for Server, Storage, Power, Networking, and Rack Products, available at the Hewlett Packard Enterprise Support Center:

<http://www.hpe.com/support/Safety-Compliance-EnterpriseProducts>

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### 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.

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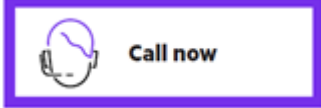
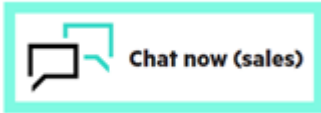
## Summary of Changes

Date	Version History	Action	Description of Change
05-Aug-2024	Version 11	Changed	Overview and Standard Features sections were updated.
15-Jul-2024	Version 10	Changed	Pre-Configured Models section was updated.
03-Jun-2024	Version 9	Changed	Pre-Configured Models section was updated.
06-May-2024	Version 8	Changed	Additional Options section was updated.
15-Apr-2024	Version 7	Changed	Pre-Configured Models section was updated.
01-Apr-2024	Version 6	Changed	Standard Features, Configuration Information Core Options and Additional Options sections were updated.
18-Mar-2024	Version 5	Changed	Pre-Configured section was updated.
04-Mar-2024	Version 4	Changed	Core Option section was updated.
05-Feb-2024	Version 3	Changed	Core Option section was updated.
08-Jan-2024	Version 2	Changed	Configuration information section was updated.
14-Dec-2023	Version 1	New	New QuickSpecs.

### Copyright

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

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