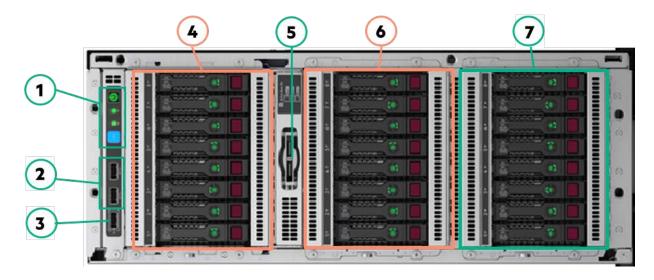
# QuickSpecs

#### **Overview**

#### HPE ProLiant ML350 Gen10 Server

Driving a wide range of workloads with a flexible, shorter and rackable chassis design that can fit in different physical environments, the secure 2P HPE ProLiant ML350 Gen10 Server delivers the ideal set of performance and expandability for changing business needs making it the choice for growing SMBs, remote/branch offices of large enterprises and data centers. Choose this 2P tower that grows with you in the digital economy.

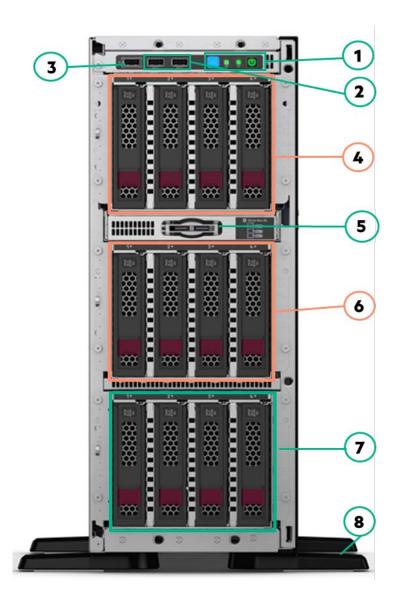


#### Front View - SFF chassis with optional Gen10 8SFF HDD Cage Kits shown (Rack mode)

- Front button/LED (top-to-down in Rack mode shown): Power On/Stand-by button and System Power LED, System Health LED, NIC Status LED, UID Button/LED
- iLO Service Port
- 5. Serial number/iLO information pull tab
- Box3: default with one 8 SFF HDD Drive Cage
   NOTE: Image shown without the security front bezel which is standard in every ML350 Gen10 unit.

- 2. USB 3.0 port x 2
- 4. Box1: optional HDD Drive Cage Bay for additional 8 SFF drives support, or upgradeable to 2 HH media devices + 1 slim-line DVD.
- 6. Box2: optional HDD Drive Cage Bay for additional 8 SFF drives support, or upgradeable to 8 SFF NVMe Express Bay





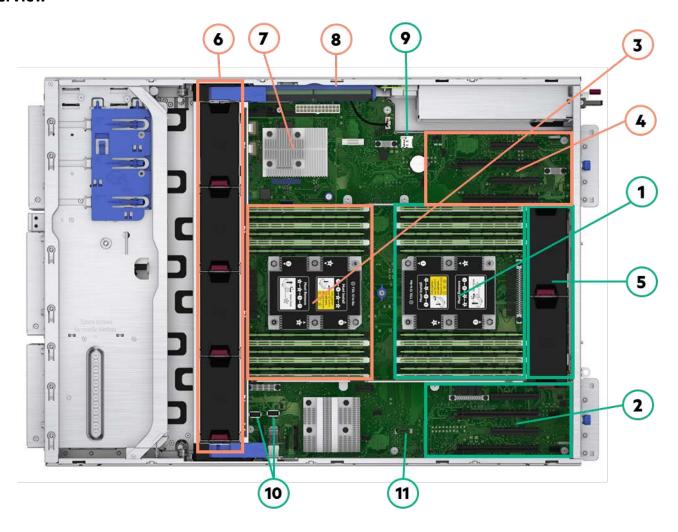
Front View - LFF chassis with optional Gen10 4LFF HDD Cage Kits shown (Tower mode)

- Front button/LED (right-to-left in Tower mode shown): Power On/Stand-by button and System Power LED, System Health LED, NIC Status LED, UID Button/LED
- 3. iLO Service Port
- 5. Serial number/iLO information pull tab
- 7. Box3: default with one 4LFF HDD Drive Cage

**NOTE:** For NHP LFF chassis, please find detail in the ML350 Gen10 User Guide.

**NOTE:** Image shown without the security front bezel which is standard in every ML350 Gen10 unit.

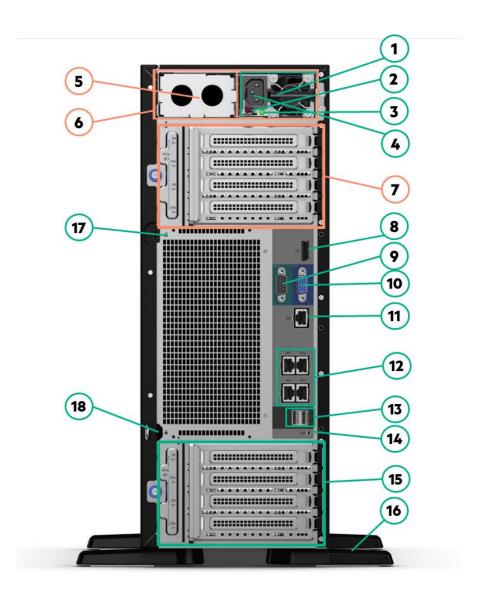
- 2. USB 3.0 port x 2
- 4. Box1: optional HDD Drive Cage Bay for additional 4 LFF drives support, or upgradeable to 2 HH media devices + 1 slim-line DVD
- 6. Box2: optional HDD Drive Cage Bay for additional 4 LFF drives support
- 8. Tower feet (foldable at servicing)



### Internal View – with optional 2<sup>nd</sup> CPU, Smart Array Modular Controller and Redundant Fan Kit shown

- CPU Socket 1 with one processor and heatsink, and 12 DDR4 DIMM slots for RDIMM or LRDIMM
- 3. CPU Socket 2 with the 2<sup>nd</sup> processor and heatsink, (depending on server model, the 2<sup>nd</sup> processor can be Optional) and 12 DDR4 DIMM slots for RDIMM or LRDIMM
- 5. System fans: (2) fans along with the air baffle (not shown) are standard for basic cooling
- 7. Optional HPE Smart Array Modular controller (AROC)
- 9. MicroSD Slot x1
- 11 TPM Connector

- 2. PCIe Slots (Slot 1-4, coming from CPU1): Slot 1 and 3 can support Optional GPU
- 4. PCle Slots (Slot 5-8, coming from CPU2) (requires Optional 2<sup>nd</sup> processor): Slot 5 and 7 can support Optional GPU
- 6. Optional (4) system fans are shown, supporting 2P and/or advanced cooling requirements.
- 8. Optional HPE Smart Storage Battery
- 10. Internal USB port x2 (USB3.0 x1 and USB2.0 x1)



#### Rear View - With HPE Flex Slot RPS shown.

- 1. HPE Flexible Slot 1 Power Supply
- 3. Power supply Power LED
- 5. HPE Flexible Slot 2 (Optional empty with power supply blank 6. shown)
- 7. PCI Slots (Slots 5-8) (requires Optional second processor) Slot 5 and 7 can support Optional GPU
- 9. Serial Port
- 11. Dedicated iLO Management Port (RJ45)
- 13. USB 3.0 port x 2
- 15. PCI Slots (Slots 1-4) Slot 1 and 3 can support Optional GPU
- 17. Kensington security slot

- 2. Power supply handle (with red touch-point)
- 4. Power supply Power connection
  - Or, support for HPE 500W Standard Non-Hot-Plug/non-RPS Power Supply, depending on model SKU
- 8. Display Port
- 10. VGA Port
- 12. Embedded 4 x 1GbE Network ports
- 14. Unit ID LED
- 16. Tower feet (foldable at servicing)
- 18. Padlock eye

### What's New:

- HPE NVidia Quadro P2000 GPU option support added
- New SFF SATA SSD models added
- New 100Gb adapter model added

# **Platform Information**

Form Factor

4U tower with rack conversion capability

**NOTE:** When deployed as a Rack model, this system will take up 5U-height space in a standard data center rack facility.

#### **Chassis Types**

8 SFF chassis with optional SFF HDD cage kit (s), NVMe Express Bay, half-height (5.25") media bay up to 2, and 1 slim-line DVD bay kit options

4 LFF chassis with optional LFF HDD cage kit (s), half-height (5.25") media bay up to 2, and 1 slim-line DVD bay kit options

4 LFF NHP chassis with optional LFF NHP HDD cage kit (s), half-height (5.25") media bay up to 2, and 1 slim-line DVD bay kit options

**NOTE:** The 8 SFF chassis can be upgraded with SFF HDD cage kit (s) to 16 or 24 SFF. Note a field upgrade to 24 SFF will require redundant fan kit (874572-B21).

**NOTE:** The 8 SFF NVMe Express Bay option (874569-B21) can only be leveraged in the SFF chassis and installed in Box 2. Maximum of 8 SFF NVMe PCle drives are supported when two ML350 Gen10 NVMe Riser boards (shipped in 874569-B21) are populated. When only one Riser board is populated, then 4 NVMe drives are supported. Note a field upgrade to NVMe Express Bay will require redundant fan kit (874572-B21).

**NOTE:** The 4 LFF HP or NHP chassis can be upgraded with LFF HDD cage kit (s) or LFF NHP HDD cage kit (s) to 8 or 12 LFF. Note a field upgrade to 12 LFF either in LFF hot-plug or LFF non-hot-plug chassis will require redundant fan kit (874572-B21).

**NOTE:** The 8 SFF or 4 LFF or 4 LFF NHP chassis can be upgraded to add half-height media bay up to 2, and/or 1 slim-line DVD in Box1. Note a field upgrade to fully populate front storage bays (Box1, 2 and 3 fully loaded) will require redundant fan kit (874572-B21).

#### **System Fans**

Standard – fan types included

**NOTE:** 1P models typically ship with 2 standard fans located at system rear. These two fans are default inside every ML350 Gen10 unit and do NOT support hot-plug operations.

**NOTE:** 2P models typically ship with 6 standard fans which provides N+1 redundant fan feature in most of the situations. For support detail or restriction, refer to ML350 Gen10 User Guide. **NOTE:** Optional redundant fan kit (874572-B21) provides advanced cooling and redundancy functionality in heavier configurations. Configurations that require this kit are provided in later sections. Refer to the User Guide for special configuration scenarios where this kit is required but does not provide redundancy feature.

# **Standard Features**

Processors – Up to 2 of the following depending on model.

NOTE: For more information regarding Intel Xeon processors, please see the following <a href="http://www.intel.com/xeon">http://www.intel.com/xeon</a>.

Intel Xeon Models	CPU Frequency	Cores	L3 Cache	Power	UPI	DDR4	Memory per socket
Platinum Processors							
Platinum 8180M Processor	2.5 GHz	28	38.50 MB	205W	3 @ 10.4 GT/s	2666 MT/s	1.5 TB
Platinum 8180 Processor	2.5 GHz	28	38.50 MB	205W	3 @ 10.4 GT/s	2666 MT/s	768 GB
Platinum 8176M Processor	2.1 GHz	28	38.50 MB	165W	3 @ 10.4 GT/s	2666 MT/s	1.5 TB
Platinum 8176 Processor	2.1 GHz	28	38.50 MB	165W	3 @ 10.4 GT/s	2666 MT/s	768 GB
Platinum 8170M Processor	2.1 GHz	26	35.75 MB	165W	3 @ 10.4 GT/s	2666 MT/s	1.5 TB
Platinum 8170 Processor	2.1 GHz	26	35.75 MB	165W	3 @ 10.4 GT/s	2666 MT/s	768 GB
Platinum 8168 Processor	2.7 GHz	24	33.00 MB	205W	3 @ 10.4 GT/s	2666 MT/s	768 GB
Platinum 8164 Processor	2.0 GHz	26	35.75 MB	150W	3 @ 10.4 GT/s	2666 MT/s	768 GB
Platinum 8160M Processor	2.1 GHz	24	33.00 MB	150W	3 @ 10.4 GT/s	2666 MT/s	1.5 TB
Platinum 8160 Processor	2.1 GHz	24	33.00 MB	150W	3 @ 10.4 GT/s	2666 MT/s	768 GB
Platinum 8158 Processor	3.0 GHz	12	24.75 MB	150W	3 @ 10.4 GT/s	2666 MT/s	768 GB
Platinum 8156 Processor	3.6 GHz	4	16.50 MB	105W	3 @ 10.4 GT/s	2666 MT/s	768 GB
Platinum 8153 Processor	2.0 GHz	16	22.00 MB	125W	3 @ 10.4 GT/s	2666 MT/s	768 GB
Gold Processors							
Gold 6154 Processor	3.0 GHz	18	24.75 MB	200W	3 @ 10.4 GT/s	2666 MT/s	768 GB
Gold 6152 Processor	2.1 GHz	22	30.25 MB	140W	3 @ 10.4 GT/s	2666 MT/s	768 GB
Gold 6150 Processor	2.7 GHz	18	24.75 MB	165W	3 @ 10.4 GT/s	2666 MT/s	768 GB
Gold 6148 Processor	2.4 GHz	20	27.50 MB	150W	3 @ 10.4 GT/s	2666 MT/s	768 GB
Gold 6146 Processor	3.2 GHz	12	24.75 MB	165W	3 @ 10.4 GT/s	2666 MT/s	768 GB
Gold 6144 Processor	3.5 GHz	8	24.75 MB	150W	3 @ 10.4 GT/s	2666 MT/s	768 GB
Gold 6142M Processor	2.6 GHz	16	22.00 MB	150W	3 @ 10.4 GT/s	2666 MT/s	1.5 TB
Gold 6142 Processor	2.6 GHz	16	22.00 MB	150W	3 @ 10.4 GT/s	2666 MT/s	768 GB
Gold 6140M Processor	2.3 GHz	18	24.75 MB	140W	3 @ 10.4 GT/s	2666 MT/s	1.5 TB
Gold 6140 Processor	2.3 GHz	18	24.75 MB	140W	3 @ 10.4 GT/s	2666 MT/s	768 GB
Gold 6138 Processor	2.0 GHz	20	27.50 MB	125W	3 @ 10.4 GT/s	2666 MT/s	768 GB
Gold 6136 Processor	3.0 GHz	12	24.75 MB	150W	3 @ 10.4 GT/s	2666 MT/s	768 GB
Gold 6134M Processor	3.2 GHz	8	24.75 MB	130W	3 @ 10.4 GT/s	2666 MT/s	1.5 TB
Gold 6134 Processor	3.2 GHz	8	24.75 MB	130W	3 @ 10.4 GT/s	2666 MT/s	768 GB
Gold 6132 Processor	2.6 GHz	14	19.25 MB	140W	3 @ 10.4 GT/s	2666 MT/s	768 GB
Gold 6130 Processor	2.1 GHz	16	22.00 MB	125W	3 @ 10.4 GT/s	2666 MT/s	768 GB
Gold 6128 Processor	3.4 GHz	6	19.25 MB	115W	3 @ 10.4 GT/s	2666 MT/s	768 GB
Gold 6126 Processor	2.6 GHz	12	19.25 MB	125W	3 @ 10.4 GT/s	2666 MT/s	768 GB
Gold 5122 Processor	3.6 GHz	4	16.50 MB	105W	2 @ 10.4 GT/s	2666 MT/s	768 GB
Gold 5120 Processor	2.2 GHz	14	19.25 MB	105W	2 @ 10.4 GT/s	2400 MT/s	768 GB
Gold 5118 Processor	2.3 GHz	12	16.50 MB	105W	2 @ 10.4 GT/s	2400 MT/s	768 GB
Gold 5115 Processor	2.4 GHz	10	13.75 MB	85W	2 @ 10.4 GT/s	2400 MT/s	768 GB

Silver Processors							
Silver 4116 Processor	2.1 GHz	12	16.50 MB	85W	2 @ 9.6 GT/s	2400 MT/s	768 GB
Silver 4114 Processor	2.2 GHz	10	13.75 MB	85W	2 @ 9.6 GT/s	2400 MT/s	768 GB
Silver 4112 Processor	2.6 GHz	4	8.25 MB	85W	2 @ 9.6 GT/s	2400 MT/s	768 GB
Silver 4110 Processor	2.1 GHz	8	11.00 MB	85W	2 @ 9.6 GT/s	2400 MT/s	768 GB
Silver 4108 Processor	1.8 GHz	8	11.00 MB	85W	2 @ 9.6 GT/s	2400 MT/s	768 GB
Bronze Processors							
Bronze 3106 Processor	1.7 GHz	8	11.00 MB	85W	2 @ 9.6 GT/s	2133 MT/s	768 GB
Bronze 3104 Processor	1.7 GHz	6	11.00 MB	85W	2 @ 9.6 GT/s	2133 MT/s	768 GB

**NOTE:** Platinum – 8100 Series –2 Socket supports 2UPI, supports 6-Channel DDR4 @ 2666 MT/s providing up to 768 GB memory capacity (1.5 TB on select processor skus). Intel Turbo Boost Technology, Intel Hyper-Threading Technology supported. Intel AVX-512 (2x 512-bit FMA), 48 lanes PCIe 3.0, advanced RAS.

**NOTE:** Gold – 5100, 6100 Series - 2 Socket supports 2UPI, supports 6-Channel DDR4 @ 2400 MHz (SKU 5122=supports 2666) providing up to 768GB memory capacity (1.5 TB on select skus). Intel Turbo Boost Technology, Intel Hyper-Threading Technology, Intel AVX-512(1x 512-bit FMA) (SKU 5122 supports 2x 512 bit FMA), 48 lanes PCle 3.0, advanced RAS supported.

**NOTE:** Silver – 4100 Series - 2 Socket supports 2UPI @ 9.6 GT/s, 6-Channel DDR4 @ 2400 MHz providing up to 768 GB memory capacity. Intel Turbo Boost Technology, Intel Hyper-Threading Technology, Intel AVX-512(1x 512-bit FMA), 48 lanes PCIe 3.0, standard RAS supported.

**NOTE:** Bronze – 3100 Series - 2 Socket supports 2UPI @ 9.6 GT/s, supports 6-Channel DDR4 @ 2133 MHz providing up to 768GB memory capacity. Intel AVX-512(1x 512-bit FMA), 48 lanes PCIe 3.0, standard RAS supported.

#### Chipset

Intel C622 Chipset

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

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

#### **On System Management Chipset**

HPE iLO 5 ASIC

NOTE: Read and learn more in the iLO QuickSpecs.

#### **Memory**

One of the following depending on model

Type: HPE DDR4 SmartMemory,

Registered (RDIMM), Load Reduced (LRDIMM)

DIMM Slots Available 24 12 DIMM slots per processor, 6 channels per processor, 2 DIMMs

per channel

Maximum capacity (LRDIMM) 3 TB 24 x 128 GB LRDIMM @ 2600 MT/s Maximum capacity (RDIMM) 768 GB 24 x 32 GB RDIMM @ 2600 MT/s

**NOTE:** The maximum memory by socket is limited by the processor selection.

**NOTE:** Mixing of RDIMM and LRDIMM memory is not supported.

#### **Memory Protection**

For details on the HPE Server Memory Options RAS feature, visit: <a href="http://www.hpe.com/docs/memory-ras-feature">http://www.hpe.com/docs/memory-ras-feature</a>.

#### **Expansion Slots**

Slots #	Technology	Bus Width	Connector Width	Slot Form Factor	Notes
1	PCle 3.0	X16	X16	Full-height, full-length slot	Proc 1
2	PCle 3.0	X4	X8	Full-height, full-length slot	Proc 1
3	PCle 3.0	X16	X16	Full-height, full-length slot	Proc 1
4	PCle 3.0	X4	X8	Full-height, full-length slot	Proc 1

**NOTE:** Bus Width Indicates the number of physical electrical lanes running to the connector. **NOTE:** Slot 4 is routed from the PCH.

Slots #	Technology	Bus Width	Connector Width	Slot Form Factor	Notes
5	PCIe 3.0	X16	X16	Full-height, full-length slot	Proc 2
6	PCIe 3.0	X8	X8	Full-height, full-length slot	Proc 2
7	PCIe 3.0	X16	X16	Full-height, full-length slot	Proc 2
8	PCle 3.0	X8	X8	Full-height, full-length slot	Proc 2

**NOTE:** Bus Width Indicates the number of physical electrical lanes running to the connector. **NOTE:** Max. 8 PCle slots are available on the ML350 Gen10.

#### **Storage Controllers**

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

One of the following depending on model

Software RAID HPE Smart Array S100i SR Gen10 SW RAID

**NOTE:** HPE Smart Array S100i SR Gen10 SW RAID will operate in UEFI mode only. For legacy support an additional controller will be needed, and for CTO orders please also select the Legacy mode settings part, 758959-B22.

NOTE: HPE Smart Array S100i SR Gen10 SW RAID is off by default and must be enabled.

**NOTE:** The S100i uses 14 embedded SATA ports.

**NOTE:** The S100i only supports Windows. For Linux users, HPE offers a solution that uses in-distro open-source software to create a two-disk RAID 1 boot volume. For more information visit:

# https://downloads.linux.hpe.com/SDR/project/lsrrb/

<b>Essential RAID Controller</b>	HPE Smart Array E208i-a SR Gen10 Controller
	HPE Smart Array E208i-p SR Gen10 Controller
	HPE Smart Array E208e-p SR Gen10 Controller
Performance RAID	HPE Smart Array P408i-a SR Gen10 Controller
Controller	HPE Smart Array P408i-p SR Gen10 Controller
	HPE Smart Array P408e-p SR Gen10 Controller
	HPE Smart Array P816i-a SR Gen10 Controller
	HPE Smart Array P824i-p MR Gen10 Controller

NOTE: Performance RAID Controllers require the HPE Smart Storage Battery (P01367-B21) which is sold separately.

**NOTE:** Separate cable kit will be required depending on configuration requirement. Refer to the later section for more information.

#### **Internal Storage Devices**

One of the following depending on model

Optical Drive Optional slim-line DVD-ROM/DVD-RW up to 1

Optional half-height (5.25") RDX or tape/LTO devices up to 2

Hard Drives None ship standard

#### **Maximum Internal Storage**

	CAPACITY	CONFIGURATION
Hot Plug SFF SAS	48.0 TB	24 x 2 TB
Hot Plug SFF SATA	48.0 TB	24 x 2 TB
Hot Plug LFF SAS	144.0 TB	12 x 12 TB
Hot Plug LFF SATA	144.0 TB	12 x 12 TB
Hot Plug SFF SAS SSD	184.32 TB	24 x 7.68 TB
Hot Plug SFF SATA SSD	92.16 TB	24 x 3.84 TB
Hot Plug LFF SAS SSD	46.08 TB	12 x 3.84 TB
Hot Plug LFF SATA SSD	46.08 TB	12 x 3.84 TB
Non Hot Plug LFF SATA	48.0 TB	12 x 4 TB
Hot Plug SFF NVMe PCle SSD	32 TB NVMe	8 x 4 TB NVMe

NOTE: NHP LFF SKU supports SATA hard disk drives only.

#### **Power Supply**

HPE 500W Standard Non-Hot-Plug Power Supply Kit

**NOTE:** Non Redunant Power Supply

**NOTE:** Available in 92% efficiency and supported in pre-configured models only. This power supply is available in a few pre-built system SKUs. Customers can still choose to upgrade to HPE Flex Slot RPS later by installing the ML350 Gen10 RPS enablement kit (874571-B21).

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

NOTE: Available in 94% efficiency.

HPE 800W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit

NOTE: Available in 94% and 96% efficiency.

NOTE: Also available in -48VDC and 227VAC/380VDC power inputs.

HPE 1600W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit

NOTE: Available in 94% efficiency.

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 Performance Servers. Flex Slot power supplies are certified for high-efficiency operation and offer multiple output power 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 with a country-specific AC power cord in Tower models; while in the Rack model, a standard 6-foot IEC C-13/C-14 jumper cord (416151-B21) is included. 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**.

For information on power specifications and technical content visit **HPE Server power supplies**.

#### **Interfaces**

Serial 1 standard (at system rear)

VGA Port 1 standard (at system rear)

Display Port 1 standard (at system rear)

Embedded Network Ports 4 x 1 Gb ports shipping standard, with optional stand up card

HPE iLO Remote 1 Gb Dedicated

Management Network Port

Front iLO Service Port 1 standard

Micro SD Slot 1 Micro SD (internal)

NOTE: The Micro SD slot is not a hot-pluggable device. Customers should not attempt to plug an SD card into the SD slot

while the server is powered.

USB 3.0/2.0 6 total, standard: 2 front (USB 3.0), 2 rear (USB 3.0), 2 internal (1 x USB 3.0 & 1 x USB 2.0)

#### Operating Systems and Virtualization Software Support for ProLiant Servers

Windows Server 2012 R2 (Most Recent Version)

Windows Server 2016 (Most Recent Version)

VMware ESXi 6.0 U3

VMware ESXi 6.5 and U1 upon release

Red Hat Enterprise Linux (RHEL) 6.9 and 7.3

SUSE Linux Enterprise Server (SLES) 11 SP4 and 12 SP2

#### **ClearOS**

HPE and ClearCenter will help you lower the cost of building on-premise solutions without sacrificing security and ease of use. HPE ProLiant servers with ClearOS give you a simple, secure, and affordable operating system with an intuitive web based graphical user interface that provides a cloud-like experience on- premise, and an Application Marketplace with over 100 apps and growing. Whether you're starting out or scaling, you decide what applications you need and pay as you grow.

NOTE: ClearOS allows you to build a fully functional server that is just right for you at no upfront cost.

For more information on ClearOS, please visit <a href="http://www.hpe.com/servers/clearos">http://www.hpe.com/servers/clearos</a>.

#### CentOS

**NOTE:** CentOS is not directly supported / Community Supported (Based on RHEL so RHEL testing and enablement applicable to CentOS) CentOS 6.9 / CentOS 7.3.

**NOTE:** 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.

http://www.hpe.com/info/ossupport

#### **Industry Standard Compliance**

ACPI 6.1 Compliant

PCle 3.0 Compliant

**WOL Support** 

Microsoft® Logo certifications

PXE Support

VGA Display Port

USB 3.0 Compliant

USB 2.0 Compliant

**Energy Star** 

SMBIOS 3.1

**UEFI 2.6** 

Redfish API

**IPMI 2.0** 

Secure Digital 2.0

Advanced Encryption Standard (AES)

Triple Data Encrytion 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

**NOTE:** For additional technical thermal details regarding ambient temperatures, humidity and features support please

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

UEFI (Unified Extensible Firmware Interface Forum)

**NOTE:** UEFI is the default setting for the ML350 Gen10. Legacy mode can be selected in the field or as a CTO option (758959-B22).

#### **Graphics**

Integrated Video Standard

- Video modes up to 1920 x 1200@60Hz (32 bpp)
- 16MB Video Memory

HPE iLO 5 on system management memory

- 32 MB Flash
- 4 Gbit DDR 3 with ECC protection

#### **HPE Server UEFI/Legacy ROM**

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

**NOTE:** The UEFI System Utilities tool is analogous to the HPE ROM-Based Setup Utility (RBSU) of legacy BIOS. For more information, please visit <a href="http://www.hpe.com/servers/uefi">http://www.hpe.com/servers/uefi</a>.

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
- NVMe Boot Support
- Platform Trust Technology (PTT) can be enabled.
- iSCSI Software Initiator Support.
- HTTP/HTTPs Boot support as a PXE alternative.
- Boot support for option cards that only support a UEFI option ROM

NOTE: For UEFI Boot Mode, boot environment and OS image installations should be configured properly to support UEFI.

**NOTE:** UEFI FIO Setting (758959-B22) can be selected to configure the system in Legacy mode in the factory for your HPE ProLiant Gen10 Server.

	_
Embedded Managem	ent

**HPE Integrated Lights-**

Out

(HPE iLO)

Monitor your servers for ongoing management, service alerting, reporting and remote

management with HPE iLO. Learn more at <a href="http://www.hpe.com/info/ilo">http://www.hpe.com/info/ilo</a>.

**UEFI**Configure and boot your servers securely with industry standard Unified Extensible Firmware

Interface (UEFI). Learn more at <a href="http://www.hpe.com/servers/uefi">http://www.hpe.com/servers/uefi</a>.

**Intelligent Provisioning** Hassle free server and OS provisioning for 1 or more servers with Intelligent Provisioning.

Learn more at <a href="http://www.hpe.com/servers/intelligentprovisioning">http://www.hpe.com/servers/intelligentprovisioning</a>.

**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 <a href="http://www.hpe.com/info/restfulapi">http://www.hpe.com/info/restfulapi</a>.

**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 <a href="http://www.hpe.com/info/smartupdate">http://www.hpe.com/info/smartupdate</a>.

**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 (iLOREST) is a single scripting tool to provision using iLO RESTful API

to discover and deploy servers at scale. Learn more at <a href="http://www.hpe.com/info/resttool">http://www.hpe.com/info/resttool</a>.

**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 <a href="http://www.hpe.com/servers/stk">http://www.hpe.com/servers/powershell</a>.

#### **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 similar to 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)

Ideal for environments already using HPE SIM, it allows you to monitor the health of your HPE ProLiant Servers and HPE Integrity Servers. 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. Learn more at <a href="http://www.hpe.com/info/hpesim">http://www.hpe.com/info/hpesim</a>.

#### Security

**UEFI Secure Boot and Secure Start support** 

Immutable Silicon Root of Trust

FIPS 140-2 validation (iLO 5 certification in progress)

Common Criteria certification (iLO 5 certification in progress)

Configurable for PCI DSS compliance

Advanced Encryption Standard (AES) and Triple Data Encryption Standard (3DES) on browser

Support for Commercial National Security Algorithms (CNSA)

Tamper-free updates – components digitally signed and verified

Secure Recovery – recover critical firmware to known good state on detection of compromised firmware

Ability to rollback firmware

Secure erase of NAND/User data

TPM (Trusted Platform Module) 1.2 option

TPM (Trusted Platform Module) 2.0 option

Front bezel key-lock feature – standard, available in both Tower and Rack models

Padlock slot, standard

Kensington Lock slot, standard

#### Warranty

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

NOTE: Server Warranty includes 3-Year Parts, 3-Year Labor, 3-Year Onsite support with next business day response. Warranty repairs may be accomplished through the use of Customer Self Repair (CSR) parts. These parts fall into two categories: 1) Mandatory CSR parts are designed for easy replacement. A travel and labor charge will result when customers decline to replace a Mandatory CSR part; 2) Optional CSR parts are also designed for easy replacement but may involve added complexity. Customers may choose to have Hewlett Packard Enterprise replace Optional CSR parts at no charge. 3) Non CSR parts must be serviced by a trained authorized service engineer. Additional information regarding worldwide limited warranty and technical support is available at: <a href="http://h17007.www1.hpe.com/us/en/enterprise/servers/warranty/">http://h17007.www1.hpe.com/us/en/enterprise/servers/warranty/</a>.

# **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. Learn more about HPE iLO Advanced

at http://www.hpe.com/servers/iloadvanced.

HPE iLO Advanced
Premium Security Edition

HPE iLO Advanced Premium Security Edition for iLO 5 includes iLO Advanced License plus high-end security modes, unique security capabilities, like Automatic FW recovery; Runtime FW verification, and Secure erase. Learn more about HPE iLO Advanced Premium Security Edition at: <a href="http://www.hpe.com/servers/ilopremium">http://www.hpe.com/servers/ilopremium</a>.

**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 and Gen10 servers. To learn more

visit http://www.hpe.com/info/oneview.

HPE Insight Cluster
Management Utility (CMU)

HPE Insight Cluster Management Utility is a HyperScale management framework that includes software for the centralized provisioning, management and monitoring of nodes and infrastructure. Learn more at <a href="http://www.hpe.com/info/cmu">http://www.hpe.com/info/cmu</a>.

#### Accelerator and GPGPU Information

Hewlett Packard Enterprise supports various accelerators on select HPE Proliant servers to support different workloads. The accelerators enable seamless integration of GPU computing with HPE ProLiant servers for high-performance computing, large data center graphics, deep learning and virtual desktop deployments. These accelerators deliver all of the standard benefits of GPU computing while enabling maximum reliability and tight integration with system monitoring and management tools such as HPE Insight Cluster Management Utility.

#### Rack and Power Infrastructure

The story may end with servers, but it starts with the foundation that makes compute go – and business grow. We've reinvented our entire portfolio of rack and power products to make IT infrastructure more secure, more practical, and more efficient. In other words, we've created a stronger, smarter, and simpler infrastructure to help you get the most out of your IT equipment. As an industry leader, Hewlett Packard Enterprise is uniquely positioned to address the key concerns of power, cooling, cable management and system access.

HPE G2 Advanced and Enterprise Racks are perfect for the server room or today's modern data center with enhanced airflow and thermal management, flexible cable management, and a 10 year Warranty to support higher density computing.

HPE G2 PDUs offer reliable power in flexible form factors that operate at temperatures up to 60°, include color-coded outlets and load segments and a low-profile design for optimal access to the rack and support for dense rack environments.

HPE Uninterruptible Power Systems are cost-effective power protection for any type workload. Some UPSs include options for remote management and extended runtime modules so you're critical dense data center is covered in power outages.

HPE KVM Solutions include a console and switches designed to work with your server and IT equipment reliably. We've got a cost-effective KVM switch for your first rack and multiple connection IP switches with remote management and security capabilities to keep your data center rack up and running.

Learn more about HPE Racks, KVM, PDUs and UPSs at HPE Rack and Power Infrastructure.

# **Optional Features**

#### 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. <a href="https://h22174.www2.hpe.com/SimplifiedConfig/Welcome#">https://h22174.www2.hpe.com/SimplifiedConfig/Welcome#</a>

## Service and Support

# **HPE Pointnext - Service and Support**

#### Protect your business beyond warranty with HPE Pointnext Operational Service

HPE Pointnext provides a comprehensive portfolio including Advisory and Transformational, Professional, and Operational Services to help accelerate your digital transformation. From the onset of your transformation journey, Advisory and Transformational Services focus on designing the transformation and creating a solution roadmap. Professional Services specializes in creative configurations with flawless and on-time implementation, and on-budget execution. Finally, operational services provides innovative new approaches like Flexible Capacity and Datacenter Care, to keep your business at peak performance. HPE is ready to bring together all the pieces of the puzzle for you, with an eye on the future, and make the complex simple.

#### **Connect your devices:**

Unlock all of the benefits of your technology investment by connecting your products to Hewlett Packard Enterprise. Achieve up to 77%1 reduction in down time, near 100%2 diagnostic accuracy and a single consolidated view of your environment. By connecting, you will receive 24x7monitoring, pre-failure alerts, automatic call logging, and automatic parts dispatch. HPE Proactive Care Service and HPE Datacenter Care Service customers will also benefit from proactive activities to help prevent issues and increase optimization. All of these benefits are already available to you with your server storage and networking products, securely connected to HPE support.

1- IDC 2 - HP CSC reports 2014 - 2015

Learn more about getting connected at <a href="http://www.hpe.com/services/getconnected">http://www.hpe.com/services/getconnected</a>.

#### **Recommended Services**

#### HPE Proactive Care\* with 6 hour call-to-repair commitment, three year Support Service

HPE Proactive Care gives customers an enhanced call experience. When your products are connected to HPE, Proactive Care helps prevent problems and maintains IT stability by utilizing personalized proactive reports with recommendations and advice. This Service combines three years' proactive reporting and advice with our highest level of hardware support - HPE's 24x7, six hour hardware call-to-repair. HPE is the only leading manufacturer who makes this level of coverage available as a standard service offering for your most valuable servers. This service also includes collaborative software support for Independent Software Vendors (ISVs), (Red Hat, VMWare, Microsoft, etc.) running on your HPE servers.

#### https://www.hpe.com/h20195/v2/GetPDF.aspx/4AA3-8855ENW.pdf

#### HPE Proactive Care\* with 24x7 coverage, three year Support Service

HPE Proactive Care gives customers an enhanced call experience. When your products are connected to HPE, Proactive Care helps prevent problems and maintains IT stability by utilizing personalized proactive reports with recommendations and advice This Service combines three years proactive reporting and advice with our 24x7 coverage, four hour hardware response time when there is a problem. This service also includes collaborative software support for Independent Software Vendors (ISVs), (Red Hat, VMWare, Microsoft, etc.) running on your HPE servers.

#### https://www.hpe.com/h20195/v2/GetPDF.aspx/4AA3-8855ENW.pdf

#### HPE Proactive Care\* - Next Business Day service, three year Support Service

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

## Service and Support

#### https://www.hpe.com/h20195/v2/GetPDF.aspx/4AA3-8855ENW.pdf

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

#### Parts and Materials

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

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

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

#### Other related Services

#### **HPE Server Hardware Installation**

Provides for the basic hardware installation of HPE branded servers, storage devices and networking options to assist you in bringing your new hardware into operation in a timely and professional manner.

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

#### **HPE Installation and Startup Service**

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

#### **HPE Datacenter Care service**

HPE Datacenter Care helps improve IT stability and security, increase the value of IT, and enable agility and innovation. It is a structured framework of repeatable, tested, and globally available services "building blocks." You can deploy, operate, and evolve your datacenter wherever you are on your IT journey. With HPE Datacenter Care, you benefit from a personalized relationship with HPE via a single point of accountability for HPE and others' products. For more information,

visit http://www.hpe.com/services/datacentercare

#### **HPE GreenLake Flex Capacity**

With HPE GreenLake Flex Capacity, you get the speed, scalability, and economics of the public cloud in the privacy of your data center. Gain the advantages of the public cloud—consumption-based payment, rapid scalability without worrying about capacity constraints. Reduce the "heavy lifting" needed to operate a data center. And retain the advantages that IT provides the business (i.e., control, security). Deliver the right user experience, choose the right technology for the business, manage privacy and compliance, and manage the cost of IT. And, you have the option to use the public cloud when needed.

#### DC for Hyperscale

Datacenter 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.

## Service and Support

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

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

#### **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 <a href="http://www.hpe.com/support/hpesc">http://www.hpe.com/support/hpesc</a>.

HPE's Support Center Mobile App\* allows you to resolve issues yourself or quickly connect to an agent for live support. Now, you can get access to personalized IT support anywhere, anytime.

HPE Insight Remote Support and HPE Support Center are available at no additional cost with a HPE warranty, HPE Support Service or HPE contractual support agreement.

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

For more information: <a href="http://www.hpe.com/services">http://www.hpe.com/services</a>.

**NOTE:** HPE ProLiant ML350 Gen10 Server is covered under the HPE Service Contract applied to the HPE ProLiant Server. No separate HPE support services need to be purchased.

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

For the Standard Features shipped in the "Factory Integrated Models", please see the "Configuration Information - Factory Integrated Models" section.

- 1. Pre-configured models ship with the configurations below. Options can be selected from the Core or Additional options section of this QuickSpecs.
- 2. Hewlett Packard Enterprise does not allow factory integration of options into pre-configured models. Any additional options purchased will be shipped separately.
- 3. If you desire a custom configuration please see "Configuration Information Factory Integrated Models" section of this QuickSpecs

	Sub-Entry Model	Entry Model	Base Model		
[SKU Number]	877619-001	877620-001	877621-001		
Model Name	HPE ML350 Gen10 3104 1P 8G 4LFF NHP S100i 500W PS Sub-Entry Tower Server	HPE ML350 Gen10 3106 1P 16G 4LFF S100i 500W FS RPS Entry Tower Server	HPE ML350 Gen10 4110 1P 16G 8SFF P408i-a 800W FS RPS Base Tower Server		
Processor	3104 (6-Core, 1.7 GHz, 85W)	3106 (8-Core, 1.7 GHz, 85W)	4110 (8-Core, 2.1 GHz, 85W)		
Number of Processors	One processor				
Memory	8 GB RDIMM SR 2600 MT/s (1x 8 GB) NOTE: running at 2133 MT/s	16 GB RDIMM SR 2600 MT/s (1x 16 GB) NOTE: running at 2133 MT/s due	16 GB RDIMM SR 2600 MT/s (1x 16 GB) NOTE: running at 2400 MT/s due		
	due to Processor limitation.	to Processor limitation.	to Processor limitation.		
Network Controller	Embedded 4-Port 1GbE HPE Ethernet 1Gb 4-port 369i Adapter  NOTE: embedded 4x1GbE HPE Ethernet 1Gb 4-port 369i Adapter does not support speed  100MB/s and 10MB/s.				
Storage Controller	Embedded 14-Port S100i NOTE: SATA only.	Embedded 14-Port S100i NOTE: SATA only. NOTE: Field upgradeable to SAS by selecting HPE modular Smart Array controller.	P408i-a NOTE: 8-Port modular Smart Array. NOTE: Smart Storage battery included.		
Hard Drive	None ship as standard				
Internal Storage	4 LFF NHP chassis with optional HDD Cage Kit (874567-B21) to be selected. Upgradeable to 12 LFF max. NOTE: The HPE ML350 Gen10 LFF Embedded SATA Cable Kit (877578-B21) is required when upgrading to add the 2 <sup>nd</sup> or 3 <sup>rd</sup> HDD cage kit, using S100i controller. One cable kit per cage.	4 LFF HP Chassis with optional HDD Cage Kit (874566-B21) to be selected. Upgradeable to 12 LFF max.  NOTE: The HPE ML350 Gen10 LFF Embedded SATA Cable Kit (877578-B21) is required when upgrading to add the 2 <sup>nd</sup> or 3 <sup>rd</sup> HDD cage kit, using \$100i controller. One cable kit per cage.	8 SFF chassis with optional SFF HDD Cage Kit (874568-B21) to be selected. Upgradeable to 24 SFF max. Opt. 8 SFF NVMe Express Bay Kit (874569-B21)		
Optical Drive Bay	Optional Slimline ODD Bay Kit (874577-B21) for SATA DVD-ROM/DVD-RW optical drive Optional Media Drive Support Kit (874570-B21) for RDX or tape/LTO devices, up to 2				
Optical Drive		None ship as standard			
PCI-Express Slots	4-slots (x16, x8, x16, x8) as standard  NOTE: PCle slots 5 – 8 require the second optional processor.				
Power Supply	1x 500W HPE Standard Non- Hot-Plug/non-RPS Power Supply	1x 500W HPE FlexSlot Power Supply NOTE: Add a second 500W FlexSlot power supply to get 1+1 power redundancy feature.	1x 800W HPE FlexSlot Power Supply NOTE: Add a second 800W FlexSlot power supply to get 1+1 power redundancy feature.		
Fans		2 standard fans;			

	Optional redundant fan cage kit (874572-B21, additional 4 fans)
Management	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)
Energy Star	2.1 certified
Form Factor	4U Tower  NOTE: Optional Tower-to-Rack conversion kit (874578-B21) to convert the unit to a 5U Rack-mount server.
Warranty	3-year parts, 3-year labor, 3-year onsite support with next business day response.

	Performance Model – Rack	Performance Model				
[SKU Number]	877622-001	877623-001				
Model Name	HPE ML350 Gen10 4114 2P 32G 8SFF P408i-a 2x800W FS RPS Performance Rack Server	HPE ML350 Gen10 5118 2P 32G 8SFF P408i-a 2x800W FS RPS Performance Tower Server				
Processor	4114 (10-Core, 2.2 GHz, 85W)	5118 (12-Core, 2.3 GHz, 105W)				
Number of Processors	Tv	wo processors				
Memory	32 GB RDIMM SR 2600 MT/s  (2x 16 GB)  NOTE: running at 2400 MT/s due to Processor limitation.					
Network Controller	Embedded 4-Port 1GbE HPE Ethernet 1Gb 4-port 369i Adapter  NOTE: embedded 4x1GbE HPE Ethernet 1Gb 4-port 369i Adapter does not support speeds of 100MB/s and 10MB/s.					
Storage Controller	P408i-a  NOTE: 8-Port modular Smart Array.  NOTE: Smart Storage battery included.					
Hard Drive	None ship as standard					
Internal Storage	8 SFF chassis with optional SFF HDD Cage Kit (874568-B21), upgradeable to 24 SFF. Opt. 8 SFF NVMe Express Bay Kit (874569-B21)					
Optical Drive Bay	Optional Slimline ODD Bay Kit (874577-B21) for SATA DVD-ROM/DVD-RW optical drive Optional Media Drive Support Kit (874570-B21) for RDX or tape/LTO devices, up to 2					
Optical Drive	None ship as standard					
PCI-Express Slots	8-slots (x16, x8, x16, x8, x16, x8, x16, x8) as standard					
Power Supply	2x 800W HPE FlexSlot power supply (1+1)					
Fans	6 standard fans					
Management	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)					
Energy Star	2.1 certified					
Form Factor	5U Rack	4U Tower				
Warranty	3-year parts, 3-year labor, 3-year ons	site support with next business day response				

	Solution Model			
[SKU Number]	P04674-S01			
Localization	US, EU/UK, AP & JP			
Model Name	HPE ML350 Gen10 4110 1P 16G 8SFF E208i-a 800W FS RPS Solution Tower Server			
Processor	4110 (8-Core, 2.1 GHz, 85W)			
Number of Processors	One processor			
Memory	16 GB RDIMM SR 2600 MT/s (1x 16 GB)  NOTE: running at 2400 MT/s due to Processor limitation.			
Network Controller	Embedded 4-Port 1GbE HPE Ethernet 1Gb 4-port 369i Adapter  NOTE: embedded 4x1GbE HPE Ethernet 1Gb 4-port 369i Adapter does not support speeds of 100MB/s and 10MB/s.			
Storage Controller	E208i-a  NOTE: 8-Port modular Smart Array with essential RAID/no Cache.  NOTE: Smart Storage battery NOT included.			
Hard Drive	None ship as standard			
Internal Storage	8 SFF chassis with optional SFF HDD Cage Kit (874568-B21) to be selected. Upgradeable to 24 SFF max.  Opt. 8 SFF NVMe Express Bay Kit (874569-B21)			
Optical Drive Bay	Optional Slimline ODD Bay Kit (874577-B21) for SATA DVD-ROM/DVD-RW optical drive Optional Media Drive Support Kit (874570-B21) for RDX or tape/LTO devices, up to 2			
Optical Drive	None ship as standard			
PCI-Express Slots	4-slots (x16, x8, x16, x8) as standard  NOTE: PCle slots 5 – 8 require the second optional processor.			
Power Supply	1x 800W HPE FlexSlot Power Supply  NOTE: Add a second 800W FlexSlot power supply to get 1+1 power redundancy feature.			
Fans	2 standard fans; Optional redundant fan cage kit (874572-B21, add'l 4 fans)			
Software	ClearOS/ClearVM  NOTE: ClearOS/VM installer on a 8GB USB flash key pre-built inside the system.			
Management	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)			
Energy Star	2.1 certified			
Form Factor	4U Tower  NOTE: Optional Tower-to-Rack conversion kit (874578-B21) to convert the unit to a 5U Rack-mount server.			
Warranty	3-year parts, 3-year labor, 3-year onsite support with next business day response.			

#### **Recommended Options**

Offering the best combination of performance, value and availability, Recommended Options have been selected by HPE experts to provide the right technology for a range of workloads and market segments. Fully integrated into the HPE management and security experience, Recommended Options provide the best fit with timely availability.

#### **Extended Options**

Extended Options provide an extended catalog of products tailored for customers in specific markets or with specific workloads, requiring the utmost in performance or value. Fully integrated into the HPE management and security experience, Extended Options represent great value and performance but typically have a longer lead-time.

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.

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

CTO Server	HPE ML350 Gen10 4 LFF CTO Server	HPE ML350 Gen10 8 SFF CTO Server	HPE ML350 Gen10 8 SFF Rack CTO Server		
SKU Number	877625-B21	877626-B21	877627-B21		
Processor Sockets	Two as standard	Two as standard	Two as standard		
Processor	Not included as standard	Not included as standard	Not included as standard		
DIMM Slots	24-DIMM slots	24-DIMM slots	24-DIMM slots		
Storage Controller	Embedded SW RAID S100i with 14 SATA ports, choice of HPE modular Smart Array (AROC) and/or PCI Standup controller card (s)				
PCle	8 PCle Gen3 slots (x16, x8, x16, x8, x16, x8, x16, x8) as standard				
Drive Cage - included	4 LFF	8 SFF	8 SFF		
Network Controller	Embedded 4x1GbE HPE Ethernet 1Gb 4-port 369i Adapter with optional 1/10/25Gb Standup card NOTE: embedded 4x1GbE HPE Ethernet 1Gb 4-port 369i Adapter does not support speeds of 100MB/s and 10MB/s.				
Fans	2-Standard	2-Standard	6-Standard		
Power Supply Cage included	HPE Flex Slot RPS cage and PDB included	HPE Flex Slot RPS cage and PDB included	HPE Flex Slot RPS cage and PDB included		
Management	HPE iLO with Intelligent Provisioning (standard), iLO Advances and OneView (optional)				
USB	6x 3.0/2.0 standard plus front iLO Service Port	6x 3.0/2.0 standard plus front iLO Service Port	6x 3.0/2.0 standard plus front iLO Service Port		
Tower-to-Rack conversion kit	Optional	Optional	Easy Install rack-rail tray (1U) with CMA included as mandatory (must-select) accessories		

**NOTE:** Refer to HPE Power Advisor Tool to review the power requirement for your selected configuration and determine what power supply module(s) to select.

Additional drive cages	Optional 4xLFF HDD Cage kit, up	Optional 8xSFF HDD Cage kit, up to	Optional 8xSFF HDD Cage kit, up to
	to 2 (total of 3)	2 (total of 3)	2 (total of 3)

Half-Height Media	2 Optional	2 Optional	2 Optional
Bay			
ODD	1 Optional	1 Optional	1 Optional
Redundant Fan Cage Kit	Optional	Optional	Included as standard – total 6 fans included
8 SFF NVMe Express Bay	Not available	Optional, up to 1	Optional, up to 1

NOTE: This aplies to CTO configurations, field upgrades may differ depending on field configuration.

**NOTE:** The HH Media Bay (2) and slim ODD Bay together takes up the space of one 4 LFF or 8 SFF drive cage, which means when media bay, ODD or both is selected, the max. drive cage installation will be 2.

**NOTE:** To get advanced cooling in richer configurations and/or under certain ambient environmental conditions, the Redundant Fan Cage Kit (874572-B21) which consists of one fan cage with 4 additional fans, is REQUIRED. This kit is automatically selected when the Rack CTO SKU is selected. Refer to the Redundaunt Fan Kit section or ML350 Gen10 User Guide for detail. **NOTE:** When the 8SFF Rack CTO Server (877627-B21) is selected, the Redundant Fan Cage Kit (874572-B21) and ML350 Gen10 T/R Conversion Kit (874578-B21) will be automatically selected.

# Step 2a: Choose Required Options - Processors (only one of the following unless otherwise noted)

Please select one -L21 processor required below.

For second processor, please select the same processor model with –B21 from Core Options – HPE Processors section. For example: first processor, select 878665-L21 then for second processor, select 878665-B21.

**NOTE:** 1P models typically ship with 2 standard fans. 2P models will require selection of the Redundant Fan Cage kit (874572-B21) which contains one fan cage along with 4 additional fans – total number of fans required in the system will be 6.

**NOTE:** Maximum memory capacity per processor is dependent on processor models. All processors support up to 768 GB max memory per processor except "M" model processors will support up to 1.5 TB max memory per processor.

**NOTE:** Mixing of 2 different processor models are NOT allowed.

**NOTE:** DDR4 speed is the maximum memory speed of the processor. Actual memory speed may depend on the quantity and type of DIMMs installed.

NOTE: Processors higher than 85W will ship with the Performance heat sink. All other processors will ship with the Standard heat sink

heat sink.			
Processor Option Kits - Recommended Requ			
HPE ML350 Gen10 Intel® Xeon-Platinum 8168 (2.7GHz/24-core/205W) FIO Processor Kit (Recommended)	878665-L21		
NOTE: Ships with Performance Heatsink.			
HPE ML350 Gen10 Intel® Xeon-Platinumn 8164 (2.0GHz/26-core/145W) FIO Processor Kit (Recommended)	878658-L21		
NOTE: Ships with Performance Heatsink.			
HPE ML350 Gen10 Intel® Xeon-Platinum 8160M (2.1GHz/24-core/145W) FIO Processor Kit (Recommended)	878664-L21		
NOTE: Ships with Performance Heatsink.			
HPE ML350 Gen10 Intel® Xeon-Platinum 8160 (2.1GHz/24-core/150W) FIO Processor Kit (Recommended)	878657-L21		
NOTE: Ships with Performance Heatsink.			
HPE ML350 Gen10 Intel® Xeon-Gold 6154 (3.0GHz/18-core/200W) FIO Processor Kit (Recommended)	878653-L21		
NOTE: Ships with Performance Heatsink.			
HPE ML350 Gen10 Intel® Xeon-Gold 6152 (2.1GHz/22-core/140W) FIO Processor Kit (Recommended) NOTE: Ships with Performance Heatsink.	878652-L21		
HPE ML350 Gen10 Intel® Xeon-Gold 6148 (2.4GHz/20-core/150W) FIO Processor Kit (Recommended)	878650-L21		

NOTE: Ships with Performance Heatsink.	
HPE ML350 Gen10 Intel® Xeon-Gold 6146 (3.2GHz/12-core/165W) FIO Processor Kit (Recommended)	878649-L21
NOTE: Ships with Performance Heatsink.	
HPE ML350 Gen10 Intel Xeon-Gold 6144 (xxxGHz/8-core/155W) FIO Processor Kit (Recommended)	878648-L21
NOTE: Ships with Performance Heatsink.	
HPE ML350 Gen10 Intel® Xeon-Gold 6142M (2.6GHz/16-core/150W) FIO Processor Kit (Recommended)	878647-L21
NOTE: Ships with Performance Heatsink.	
HPE ML350 Gen10 Intel Xeon-Gold 6140M (2.3GHz/18-core/140W) FIO Processor Kit (Recommended)	866556-L21
NOTE: Ships with Performance Heatsink.	
HPE ML350 Gen10 Intel Xeon-Gold 6140 (2.3GHz/18-core/140W) FIO Processor Kit (Recommended)	866554-L21
NOTE: Ships with Performance Heatsink.	
HPE ML350 Gen10 Intel Xeon-Gold 6138 (2.0GHz/20-core/125W) FIO Processor Kit (Recommended)	866552-L21
NOTE: Ships with Performance Heatsink.	
HPE ML350 Gen10 Intel® Xeon-Gold 6134 (3.2GHz/8-core/130W) FIO Processor Kit (Recommended)	880214-L21
NOTE: Ships with Performance Heatsink.	
HPE ML350 Gen10 Intel Xeon-Gold 6132 (2.6GHz/14-core/140W) FIO Processor Kit (Recommended)	866548-L21
NOTE: Ships with Performance Heatsink.	
HPE ML350 Gen10 Intel Xeon-Gold 6130 (2.1GHz/16-core/125W) FIO Processor Kit (Recommended)	866546-L21
HPE ML350 Gen10 Intel Xeon-Gold 6128 (3.4GHz/6-core/115W) FIO Processor Kit (Recommended)	866544-L21
NOTE: Ships with Performance Heatsink.	
HPE ML350 Gen10 Intel Xeon-Gold 6126 (2.6GHz/12-core/125W) FIO Processor Kit (Recommended)	866542-L21
HPE ML350 Gen10 Intel Xeon-Gold 5122 (3.6GHz/4-core/105W) FIO Processor Kit (Recommended)	866540-L21
NOTE: Ships with Performance Heatsink.	
HPE ML350 Gen10 Intel Xeon-Gold 5120 (2.2GHz/14-core/105W) FIO Processor Kit (Recommended)	866538-L21
NOTE: Ships with Performance Heatsink.	
HPE ML350 Gen10 Intel Xeon-Gold 5118 (2.3GHz/12-core/105W) FIO Processor Kit (Recommended)	866536-L21
NOTE: Ships with Performance Heatsink.	
HPE ML350 Gen10 Intel Xeon-Gold 5115 (2.4GHz/10-core/85W) FIO Processor Kit (Recommended)	866534-L21
HPE ML350 Gen10 Intel Xeon-Silver 4116 (2.1GHz/12-core/85W) FIO Processor Kit (Recommended)	866532-L21
HPE ML350 Gen10 Intel Xeon-Silver 4114 (2.2GHz/10-core/85W) FIO Processor Kit (Recommended)	866530-L21
HPE ML350 Gen10 Intel Xeon-Silver 4112 (2.6GHz/4-core/85W) FIO Processor Kit (Recommended)	866528-L21
HPE ML350 Gen10 Intel Xeon-Silver 4110 (2.1GHz/8-core/85W) FIO Processor Kit (Recommended)	866526-L21
HPE ML350 Gen10 Intel Xeon-Silver 4108 (1.8GHz/8-core/85W) FIO Processor Kit (Recommended)	866524-L21
HPE ML350 Gen10 Intel Xeon-Bronze 3106 (1.7GHz/8-core/85W) FIO Processor Kit (Recommended)	866522-L21
HPE ML350 Gen10 Intel Xeon-Bronze 3104 (1.7GHz/6-core/85W) FIO Processor Kit (Recommended)	866520-L21
NOTE: Processors above 85W use a Performance Heatsink.	
Processor Option Kits - Extended	Required Processor
HPE ML350 Gen10 Intel® Xeon-Platinum 8180M (2.5GHz/28-core/205W) FIO Processor Kit (Extended)	878663-L21
NOTE: Ships with Performance Heatsink.	
HPE ML350 Gen10 Intel® Xeon-Platinum 8180 (2.5GHz/28-core/205W) FIO Processor Kit (Extended)	878662-L21
NOTE: Ships with Performance Heatsink.	
HPE ML350 Gen10 Intel® Xeon-Platinum 8176M (2.1GHz/28-core/165W) FIO Processor Kit (Extended)	878666-L21

NOTE: Ships with Performance Heatsink.	
HPE ML350 Gen10 Intel® Xeon-Platinum 8176 (2.1GHz/28-core/165W) FIO Processor Kit (Extended)	878661-L21
NOTE: Ships with Performance Heatsink.	
HPE ML350 Gen10 Intel® Xeon-Platinum 8170M (2.1GHz/26-core/165W) FIO Processor Kit (Extended)	878660-L21
NOTE: Ships with Performance Heatsink.	
HPE ML350 Gen10 Intel® Xeon-Platinum 8170 (2.1GHz/26-core/165W) FIO Processor Kit (Extended)	878659-L21
NOTE: Ships with Performance Heatsink.	
HPE ML350 Gen10 Intel® Xeon-Platinum 8158 (3.0GHz/12-core/150W) FIO Processor Kit (Extended)	878656-L21
NOTE: Ships with Performance Heatsink.	
HPE ML350 Gen10 Intel® Xeon-Platinum 8156 (3.6GHz/4-core/105W) FIO Processor Kit (Extended)	878655-L21
NOTE: Ships with Performance Heatsink.	
HPE ML350 Gen10 Intel® Xeon-Platinum 8153 (2.0GHz/16-core/125W) FIO Processor Kit (Extended)	878654-L21
HPE ML350 Gen10 Intel® Xeon-Gold 6150 (2.7GHz/18-core/165W) FIO Processor Kit (Extended)	878651-L21
NOTE: Ships with Performance Heatsink.	
HPE ML350 Gen10 Intel Xeon-Gold 6142 (2.6GHz/16-core/150W) FIO Processor Kit (Extended)	866558-L21
NOTE: Ships with Performance Heatsink.	
HPE ML350 Gen10 Intel Xeon-Gold 6136 (3.0GHz/12-core/150W) FIO Processor Kit (Extended)	866550-L21
NOTE: Ships with Performance Heatsink.	
HPE ML350 Gen10 Intel® Xeon-Gold 6134M (3.2GHz/8-core/130W) FIO Processor Kit (Extended)	880215-L21
NOTE: Ships with Performance Heatsink.	

# **Step 2b: Choose Memory Options**

Please select one or more memory from below.

For new Gen10 memory population rule whitepaper and optimal memory performance guidelines, please go

#### to: https://www.hpe.com/docs/memory-population-rules

For Gen10 memory speed table, please go to: https://www.hpe.com/docs/memory-speed-table

For memory Reliability, Accessibility, Serviceability (RAS) features whitepaper like Gen10 Fast Fault Tolerance and legacy mirrored memory feature etc. please go to: <a href="http://www.hpe.com/docs/memory-ras-feature">http://www.hpe.com/docs/memory-ras-feature</a>

**NOTE:** Memory DIMM availability with a server platform is dependent upon completion of certification testing.

**NOTE:** The maximum memory speed is a function of the memory type, memory configuration, and processor model.

### **Memory - Recommended**

(Extended)

HPE 8GB (1x8GB) Single Rank x8 DDR4-2666 CAS-19-19 Registered Smart Memory Kit (Recommended)	815097-B21
HPE 16GB (1x16GB) Single Rank x4 DDR4-2666 CAS-19-19-19 Registered Smart Memory Kit (Recommended)	815098-B21
HPE 16GB (1x16GB) Dual Rank x8 DDR4-2666 CAS-19-19-19 Registered Smart Memory Kit (Recommended)	835955-B21
HPE 32GB (1x32GB) Dual Rank x4 DDR4-2666 CAS-19-19-19 Registered Smart Memory Kit (Recommended)	815100-B21
HPE 64GB (1x64GB) Quad Rank x4 DDR4-2666 CAS-19-19-19 Load Reduced Smart Memory Kit (Recommended)	815101-B21
Memory - Extended	
HPE 128GB (1x128GB) Octal Rank x4 DDR4-2666 CAS-22-19-19 3DS Load Reduced Memory Kit	815102-B21

# **Step 2c: Choose Power Supplies**

NOTE: Mixing of 2 different power supplies is NOT allowed.

**NOTE:** Selection of two HPE Flex Slot power supplies provides 1+1 power redundancy.

NOTE: To review the power requirements for your selected configuration, please use the HPE Power Advisor Tool.

#### **Power Supplies - Recommended**

HPE 500W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit (Recommended)	865408-B21
HPE 800W Flex Slot Titanium Hot Plug Low Halogen Power Supply Kit (Recommended)	865438-B21
HPE 800W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit (Recommended)	865414-B21
HPE 800W Flex Slot -48VDC Hot Plug Low Halogen Power Supply Kit (Recommended)	865434-B21
HPE 1600W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit (Recommended)	830272-B21

#### **Power Supplies - Extended**

HPE 800W Flex Slot Universal Hot Plug Low Halogen Power Supply Kit (Extended)

865428-B21

# **Step 3: Choose Additional Factory Integratable Options**

One of the following from each list may be selected if desired at time of factory integration.

### **HPE Factory Configuration Setting**

HPE Legacy FIO Mode Setting	758959-B22
NOTE: UEEL is the default, this FIO part can be used for CTO to enable Legacy mode	

HPE Memory Fast Fault Tolerance FIO Kit 875293-B21

#### **HPE Security**

HPE Gen10 TPM 1.2 FIO Setting

872108-B21

## **NOTE:** This is an FIO setting to allow the TPM 2.0 module to operate in a TPM 1.2 mode.

#### **HPE Converged Infrastructure Management Software**

HPE OneView for ProLiant DL Server including 3yr 24x7 Support FIO Bundle Physical 1-server LTU	E5Y43A
HPE OneView w/o iLO including 3yr 24x7 Support 1-server FIO LTU	P8B31A

# Step 4: Choose additional options for Factory Integration from Core and Additional Options sections below

#### **Recommended Options**

Offering the best combination of performance, value and availability, Recommended Options have been selected by HPE experts to provide the right technology for a range of workloads and market segments. Fully integrated into the HPE management and security experience, Recommended Options provide the best fit with timely availability.

#### **Extended Options**

Extended Options provide an extended catalog of products tailored for customers in specific markets or with specific workloads, requiring the utmost in performance or value. Fully integrated into the HPE management and security experience, Extended Options represent great value and performance but typically have a longer lead-time.

**NOTE:** 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. Note the **User Guide (UG)** can help to explain the cable routing for each option.

#### **HPE Unique Options - Recommended**

HPE ML350 Gen10 8SFF Hot Plug Drive Backplane Cage Kit (Recommended)	874568-B21
<b>NOTE:</b> Add additional 8 SFF Hot-Plug Hard Drive Cage, allowing for up to 24 SFF Drive support (8+8+8).	
HPE ML350 Gen10 4LFF Hot Plug Drive Backplane Cage Kit (Recommended)	874566-B21
<b>NOTE:</b> Add additional 4 LFF Hot-Plug Hard Drive Cage, allowing for up to 12 LFF Drive support (4+4+4).	
HPE ML350 Gen10 4LFF Non Hot Plug Drive Cage Kit (Recommended)	874567-B21
<b>NOTE:</b> Field upgrade only. NHP drive cage is for NHP server only. Add additional 4 LFF Non-Hot-Plug Hard	071007 521
Drive Cage, allowing for up to 12 LFF NHP Drive support (4+4+4).	
HPE ML350 Gen10 8SFF NVMe SSD Express Bay Enablement Kit with 2x4NVMe Risers and Support Cables	874569-B21
(Recommended)	071007 521
<b>NOTE:</b> This kit contains two x4 Direct Attach PCle NVMe Riser Boards with each supporting up to 4 drives.	
When both Risers are installed, it supports 8 SFF NVMe drives.	
NOTE: SFF NVMe SSDs to be ordered separately.	
NOTE: NVMe drives require the addition of HPE ML350 Gen10 Redundant Fan Cage Kit (874572-B21).	
HPE ML350 Gen10 Embedded SATA Cable Kit for LFF Configuration (Recommended)	877578-B21
NOTE: This cable kit is used to support the embedded SATA controller with S100i SW RAID. One cable kit	
per HDD cage.	
HPE ML350 Gen10 Embedded SATA Cable Kit for SFF Configuration (Recommended)	877579-B21
NOTE: This cable kit is used to support the embedded SATA controller with S100i SW RAID. One cable kit	
per HDD cage.	
HPE ML350 Gen10 AROC Mini-SAS Cable Kit for LFF Configuration (Recommended)	874573-B21
HPE ML350 Gen10 AROC Mini-SAS Cable Kit for SFF Configuration (Recommended)	877575-B21
HPE ML350 Gen10 Smart Array/HBA Mini-SAS Cable Kit for LFF Configuration (Recommended)	874574-B21
HPE ML350 Gen10 Smart Array/HBA Mini-SAS Cable Kit for SFF Configuration (Recommended)	874575-B21
HPE ML350 Gen10 12Gb SAS Expander Card Kit with Cables (Recommended)	874576-B21
HPE ML350 Gen10 Redundant Fan Cage Kit with 4 Fan Modules (Recommended)	874572-B21
NOTE: Add additional 4 hot-plug fans installed in the fan cage to get N+1 fan redundancy and/or for	
advanced cooling. Refer to later section for detail.	
HPE ML350 Gen10 Flex Slot Redundant Power Supply Cage Kit with Power Distribution Board	874571-B21
(Recommended)	
<b>NOTE:</b> Field upgrade only. Allowing field upgrade from the 500W standard PSU/non-hot-plug/non-RPS to	
support HPE Flex Slot RPS.	
HPE ML350 Gen10 GPU External Power Cable Kit (Recommended)	877628-B21
NOTE: Consists of two external power cables to feed power to GPU modules with TDP larger than 75W –	
that is, this GPU external power cable kit is required except for HPE NVIDIA Quadro P2000 GPU module.	

Core opinons	
The longer GPU power cable is intended to support GPU installation in PCle slot 1 or 3 (slots coming from CPU 1); while the other shorter cable to support slot 5 or 7 (slots coming from CPU 2).	
HPE ML Gen10 Tower to Rack Conversion Kit with Sliding Rail Rack Shelf and Cable Management Arm	874578-B21
(Recommended)	
NOTE: This kit is supported in both ML350 and ML110 Gen10.	
HPE Unique Options - Extended	07/570 004
HPE ML350 Gen10 RDX/LTO Media Drive Support Cable Kit with Fan Blank for Long LTO (Extended)	874570-B21
<b>NOTE:</b> Supporting cables to add additional RDX/tape devices for data backup or archiving. <b>NOTE:</b> RDX/tape devices to be ordered separately.	
NOTE: In the case when LTO Internal Tape or Internal Disk Based Back up (RDX) is selected along with the	
Fan Redundant Kit, Fan#1 will need to be removed and the Fan Blank provided in this option kit will need	
to be installed in Fan#1 location. This configuration will run without fan redundancy.	
Refer to ML350 Gen10 User Guide for more detail.	
HPE ML350 Gen10 Slimline ODD Bay and Support Cable Kit (Extended)	874577-B21
NOTE: Mechanical converter with supporting cable.	
HPE Processors	
Processor Option Kits - Recommended	
HPE ML350 Gen10 Intel Xeon-Platinum 8168 (2.7GHz/24-core/205W) Processor Kit (Recommended)	878665-B21
NOTE: Ships with Performance Heatsink.	070003 BZ1
HPE ML350 Gen10 Intel Xeon-Platinum 8164 (2.0GHz/26-core/150W) Processor Kit (Recommended)	878658-B21
NOTE: Ships with Performance Heatsink.	070000 021
HPE ML350 Gen10 Intel Xeon-Platinum 8160M (2.1GHz/24-core/150W) Processor Kit (Recommended)	878664-B21
NOTE: Ships with Performance Heatsink.	070001 221
HPE ML350 Gen10 Intel Xeon-Platinum 8160 (2.1GHz/24-core/150W) Processor Kit (Recommended)	878657-B21
NOTE: Ships with Performance Heatsink.	
HPE ML350 Gen10 Intel Xeon-Gold 6154 (3.0GHz/18-core/200W) Processor Kit (Recommended)	878653-B21
HPE ML350 Gen10 Intel Xeon-Gold 6152 (2.1GHz/22-core/140W) Processor Kit (Recommended)	878652-B21
NOTE: Ships with Performance Heatsink.	
HPE ML350 Gen10 Intel Xeon-Gold 6148 (2.4GHz/20-core/150W) Processor Kit (Recommended)	878650-B21
NOTE: Ships with Performance Heatsink.	
HPE ML350 Gen10 Intel Xeon-Gold 6146 (3.2GHz/12-core/165W) Processor Kit (Recommended)	878649-B21
NOTE: Ships with Performance Heatsink.	
HPE ML350 Gen10 Intel Xeon-Gold 6144 (3.5GHz/8-core/150W) Processor Kit (Recommended)	878648-B21
NOTE: Ships with Performance Heatsink.	
HPE ML350 Gen10 Intel Xeon-Gold 6142M (2.6GHz/16-core/150W) Processor Kit (Recommended)	878647-B21
NOTE: Ships with Performance Heatsink.	
HPE ML350 Gen10 Intel Xeon-Gold 6140M (2.3GHz/18-core/140W) Processor Kit (Recommended)	866556-B21
NOTE: Ships with Performance Heatsink.	
HPE ML350 Gen10 Intel Xeon-Gold 6140 (2.3GHz/18-core/140W) Processor Kit (Recommended)	866554-B21
NOTE: Ships with Performance Heatsink.	
HPE ML350 Gen10 Intel Xeon-Gold 6138 (2.0GHz/20-core/125W) Processor Kit (Recommended)	866552-B21
HPE ML350 Gen10 Intel Xeon-Gold 6134 (3.2GHz/8-core/130W) Processor Kit (Recommended)	880214-B21
NOTE: Ships with Performance Heatsink.	
HPE ML350 Gen10 Intel Xeon-Gold 6132 (2.6GHz/14-core/140W) Processor Kit (Recommended)	866548-B21
NOTE: Ships with Performance Heatsink.	
HPE ML350 Gen10 Intel Xeon-Gold 6130 (2.1GHz/16-core/125W) Processor Kit (Recommended)	866546-B21
HPE ML350 Gen10 Intel Xeon-Gold 6128 (3.4GHz/6-core/115W) Processor Kit (Recommended)	866544-B21
NOTE: Ships with Performance Heatsink.	0//5/0 50:
HPE ML350 Gen10 Intel Xeon-Gold 6126 (2.6GHz/12-core/125W) Processor Kit (Recommended)	866542-B21

**NOTE:** Turbo2: Intel® Turbo Boost Technology 2.0 provides more computing power when you need it with performance that adapts to spikes in your workload and delivers more performance upside than then previous generation turbo technology.

**NOTE:** DDR4 speed is the maximum memory speed of the processor. Actual memory speed may depend on the quantity and type of DIMMs installed.

**NOTE:** The xxxxxx-B21 is the 2nd processor and ships with the CPU heat sink for factory of field installation.

NOTE: Maximum memory per socket depends on the processor selected.

**NOTE:** Processors above 85W use a Performance Heatsink.

**NOTE:** 2P models require the Redundant Fan Cage kit (874572-B21) which consists of one fan cage along with 4 additional fans.

#### **Memory Selection**

To streamline the configuration process for HPE ProLiant Gen10 servers and to provide the best product availability, HPE recommends memory from the list located here: http://www.hpe.com/products/recommend.

#### **HPE Memory - Recommended**

HPE 8GB (1x8GB) Single Rank x8 DDR4-2666 CAS-19-19-19 Registered Smart Memory Kit	815097-B21
(Recommended)	
HPE 16GB (1x16GB) Single Rank x4 DDR4-2666 CAS-19-19-19 Registered Smart Memory Kit	815098-B21
(Recommended)	
HPE 16GB (1x16GB) Dual Rank x8 DDR4-2666 CAS-19-19-19 Registered Smart Memory Kit	835955-B21
(Recommended)	
HPE 32GB (1x32GB) Dual Rank x4 DDR4-2666 CAS-19-19-19 Registered Smart Memory Kit	815100-B21
(Recommended)	
HPE 64GB (1x64GB) Quad Rank x4 DDR4-2666 CAS-19-19-19 Load Reduced Smart Memory Kit	815101-B21
(Recommended)	

#### **HPE Memory - Extended**

HPE 128GB (1x128GB) Octal Rank x4 DDR4-2666 CAS-22-19-19 3DS Load Reduced Memory Kit 815102-B21 (Extended)

**NOTE:** Memory DIMM availability with a server platform is dependent upon completion of certification testing.

**NOTE:** The maximum memory speed is a function of the memory type, memory configuration, and processor model.

### **HPE Optical Drives - Recommended**

HPE 9.5mm SATA DVD-ROM Optical Drive (Recommended)

NOTE: The HPE ML350 Gen10 Slimline ODD Bay Kit (Recommended) (874577-B21) is required for this

HPE 9.5mm SATA DVD-RW Optical Drive (Recommended) 726537-B21

**NOTE:** The HPE ML350 Gen10 Slimline ODD Bay Kit (Recommended) (874577-B21) is required for this option.

HPE Mobile USB DVD-RW Optical Drive (Recommended) 701498-B21

**NOTE:** This is only supported on USB 3.0 ports.

**NOTE:** When front drive cages are fully populated (Box 1 - 3) and there is still the requirement for DVD-RW support, this external USB DVD-RW option will meet that need.

#### **HPE Drives**

#### Enterprise - 12G SAS - SFF Drives - Recommended

HPE 300GB SAS 12G Enterprise 15K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD (Recommended)	870753-B21
HPE 300GB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD (Recommended)	872475-B21
HPE 600GB SAS 12G Enterprise 15K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD (Recommended)	870757-B21
HPE 600GB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD (Recommended)	872477-B21
HPE 900GB SAS 12G Enterprise 15K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD (Recommended)	870759-B21
HPE 1.2TB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD (Recommended)	872479-B21
HPE 1.8TB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty 512e Digitally Signed Firmware HDD	872481-B21
(Recommended)	
HPE 2.4TB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty 512e Digitally Signed Firmware HDD	881457-B21
(Recommended)	

**NOTE:** HPE ML350 Gen10 Redundant Fan Cage Kit (Recommended) (874572-B21) is required for 10K, 15K or higher RPM SAS drives.

Enterprise - 12G SAS - SFF Drives - Extended	
HPE 900GB SAS 12G Enterprise 15K SFF (2.5in) SC 3yr Wty 512e Digitally Signed Firmware HDD	870765-B21
(Extended)	
NOTE: HPE ML350 Gen10 Redundant Fan Cage Kit (Recommended) (874572-B21) is required for 10K,	
15K or higher RPM SAS drives.	
Enterprise - 12G SAS - LFF Drives - Extended	
HPE 300GB SAS 12G Enterprise 15K LFF (3.5in) LPC 3yr Wty Digitally Signed Firmware HDD (Extended)	870755-B21
HPE 900GB SAS 12G Enterprise 15K LFF (3.5in) LPC 3yr Wty Digitally Signed Firmware HDD (Extended)	870761-B21
Midline - 12G SAS - SFF Drives - Recommended	
HPE 1TB SAS 12G Midline 7.2K SFF (2.5in) SC 1yr Wty Digitally Signed Firmware HDD (Recommended)	832514-B21
HPE 2TB SAS 12G Midline 7.2K SFF (2.5in) SC 1yr Wty 512e HDD (Recommended)	765466-B21
HPE 1TB SAS 12G Midline 7.2K SFF (2.5in) SC 1yr Wty 512e Digitally Signed Firmware HDD	
(Recommended)	765464-B21
Midline - 12G SAS - LFF Drives - Recommended	
HPE 2TB SAS 12G Midline 7.2K LFF (3.5in) LP 1yr Wty Digitally Signed Firmware HDD (Recommended)	833926-B21
HPE 4TB SAS 12G Midline 7.2K LFF (3.5in) LP 1yr Wty Digitally Signed Firmware HDD (Recommended)	833928-B21
HPE 8TB SAS 12G Midline 7.2K LFF (3.5in) LP 1yr Wty 512e Digitally Signed Firmware HDD	
(Recommended)	834031-B21
HPE 10TB SAS 12G Midline 7.2K LFF (3.5in) LP 1yr Wty Helium 512e Digitally Signed Firmware HDD	
(Recommended)	857646-B21
HPE 12TB SAS 12G Midline 7.2K LFF (3.5in) LP 1yr Wty Helium 512e Digitally Signed Firmware HDD	
(Recommended)	881781-B21
Midline - 12G SAS - LFF Drives - Extended	
HPE 1TB SAS 12G Midline 7.2K LFF (3.5in) LP 1yr Wty Digitally Signed Firmware HDD (Extended)	846526-B21
HPE 4TB SAS 12G Midline 7.2K LFF (3.5in) LP 1yr Wty 512e HDD (Extended)	861748-B21
HPE 6TB SAS 12G Midline 7.2K LFF (3.5in) LP 1yr Wty 512e HDD (Extended)	861746-B21
Midline - 6G SATA - SFF Drives - Recommended	0017 10 521
HPE 1TB SATA 6G Midline 7.2K SFF (2.5in) SC 1yr Wty Digitally Signed Firmware HDD (Recommended)	655710-B21
HPE 2TB SATA 6G Midline 7.2K SFF (2.5in) SC 1yr Wty 512e Digitally Signed Firmware HDD	033710 BZ1
(Recommended)	765455-B21
Midline - 6G SATA - LFF Drives - Recommended	700100 021
HPE 1TB SATA 6G Midline 7.2K LFF (3.5in) LP 1yr Wty Digitally Signed Firmware HDD (Recommended)	861686-B21
HPE 4TB SATA 6G Midline 7.2K LFF (3.5in) LP 1yr Wty Digitally Signed Firmware HDD (Recommended)	861683-B21
	861742-B21
HPE 6TB SATA 6G Midline 7.2K LFF (3.5in) LP 1yr Wty 512e HDD (Recommended) HPE 8TB SATA 6G Midline 7.2K LFF (3.5in) LP 1yr Wty 512e Digitally Signed Firmware HDD	001/42-021
(Recommended)	834028-B21
HPE 10TB SATA 6G Midline 7.2K LFF (3.5in) LP 1yr Wty Helium 512e Digitally Signed Firmware HDD	034020 021
(Recommended)	857650-B21
HPE 12TB SATA 6G Midline 7.2K LFF (3.5in) LP 1yr Wty Helium 512e Digitally Signed Firmware HDD	037030 BZ1
(Recommended)	881787-B21
Midline - 6G SATA - LFF Drives - Extended	001/07 BZ1
HPE 2TB SATA 6G Midline 7.2K LFF (3.5in) LP 1yr Wty Digitally Signed Firmware HDD (Extended)	861681-B21
, , , , ,	
HPE 4TB SATA 6G Midline 7.2K LFF (3.5in) LP 1yr Wty 512e HDD (Extended)	861744-B21
6G SATA - LFF NHP/Raw Drives - Recommended	004000 004
HPE 1TB SATA 6G Midline 7.2K LFF (3.5in) RW 1yr Wty HDD (Recommended)	801882-B21
HPE 1TB SATA 6G Entry 7.2K LFF (3.5in) RW 1yr Wty HDD (Recommended)	843266-B21
6G SATA - LFF NHP/Raw Drives - Extended	
HPE 4TB SATA 6G Midline 7.2K LFF (3.5in) RW 1yr Wty HDD (Extended)	801888-B21

#### **SSD Selection**

To streamline the configuration process for HPE ProLiant Gen10 servers and to provide the best product availability, HPE recommends SSDs from the list located here: <a href="http://www.hpe.com/products/recommend">http://www.hpe.com/products/recommend</a>.

Best product availability is limited to US, Canada, and Latin America at this time.

To further assist with configuration, HPE also offers an SSD Selector Tool located here: http://ssd.hpe.com

HPE 400GB SAS 12G Write Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD (Recommended)	873351-B21
HPE 800GB SAS 12G Write Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD (Recommended)	873355-B21

#### Write Intensive - 12G SAS - SFF - Solid State Drives - Extended

HPE 1.6TB SAS 12G Write Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD (Extended) 873357-B21

#### Read Intensive - 12G SAS - SFF - Solid State Drives - Recommended

HPE 960GB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD (Recommended)	872390-B21
HPE 1.92TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD (Recommended)	872392-B21
HPE 3.84TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD (Recommended)	872394-B21

#### Read Intensive - 12G SAS - SFF - Solid State Drives - Extended

HPE 7.68TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD (Extended) 870144-B21

#### Read Intensive - 6G SATA - SFF - Solid State Drives - Recommended

HPE 240GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD (Recommended)	P04556-B21
HPE 240GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD (Recommended)	875503-B21
HPE 480GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD (Recommended)	P06194-B21
HPE 480GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD (Recommended)	P04560-B21
HPE 480GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD (Recommended)	875509-B21
HPE 960GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD (Recommended)	P06196-B21
HPE 960GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD (Recommended)	P04564-B21
HPE 960GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD (Recommended)	875511-B21
HPE 1.92TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD (Recommended)	P06198-B21
HPE 1.92TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD (Recommended)	P04566-B21
HPE 1.92TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD (Recommended)	875513-B21

### Read Intensive - 6G SATA - SFF - Solid State Drives - Extended

HPE 240GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD (Extended)	877740-B21
HPE 480GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD (Extended)	877746-B21
HPE 960GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD (Extended)	877752-B21
HPE 1.92TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD (Extended)	877758-B21
HPE 3.84TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD (Extended)	P04570-B21
HPE 3.84TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD (Extended)	P06200-B21
HPE 3.84TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD (Extended)	877764-B21

#### Read Intensive - 6G SATA - LFF - Solid State Drives - Extended

HPE 960GB SATA 6G Read Intensive LFF (3.5in) LPC 3yr Wty Digitally Signed Firmware SSD (Extended)	877756-B21
HPE 1.92TB SATA 6G Read Intensive LFF (3.5in) LPC 3yr Wty Digitally Signed Firmware SSD (Extended)	877762-B21
HPE 1.92TB SATA 6G Mixed Use LFF (3.5in) LPC 3yr Wty Digitally Signed Firmware SSD (Extended)	P03689-B21
HPE 1.92TB SATA 6G Mixed Use LPC (3.5in) SCC 3vr Wtv Digitally Signed Firmware SSD (Extended)	P03610-B21

#### Read Intensive - 6G SATA - M.2 - Solid State Drives - Recommended

HPE 480GB SATA 6G Read Intensive M.2 2280 3yr Wty Digitally Signed Firmware SSD (Recommended) 875498-B21

#### Read Intensive - 6G SATA - M.2 - Solid State Drives - Extended

HPE 960GB SATA 6G Read Intensive M.2 2280 3yr Wty Digitally Signed Firmware SSD (Extended)

**NOTE:** Requires the M.2 universal enablement card kit (Recommended) (878783-B21) and use S100i SATA controller only.

**NOTE:** M.2 supports Software RAID only.

NOTE: HPE ML350 Gen10 Redundant Fan Cage Kit (874572-B21) is required for M.2 drives.

875500-B21

(Extended)

Mixed Use - 12G SAS - SFF - Solid State Drives - Recommended	
HPE 400GB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD (Recommended)	872374-B21
HPE 400GB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD (Recommended)	873359-B21
HPE 800GB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD (Recommended)	872376-B21
HPE 800GB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD (Recommended)	873363-B21
HPE 1.6TB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD (Recommended)	872382-B21
HPE 1.6TB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD (Recommended)	873365-B21
HPE 3.2TB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD (Recommended)	873367-B21
Mixed Use - 12G SAS - SFF - Solid State Drives - Extended	
HPE 3.2TB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD (Extended)	872386-B21
Mixed Use - 6G SATA - SFF - Solid State Drives - Recommended	
HPE 480GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD (Recommended)	875470-B21
HPE 960GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD (Recommended)	875474-B21
HPE 1.92TB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD (Recommended)	875478-B21
HPE 3.84TB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD (Recommended)	P00896-B21
Mixed Use - 6G SATA - SFF - Solid State Drives - Extended	
HPE 240GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD (Extended)	880295-B21
HPE 480GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD (Extended)	877776-B21
HPE 960GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD (Extended)	877782-B21
HPE 1.92TB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD (Extended)	877788-B21
Mixed Use - 12G SAS - LFF - Solid State Drives - Recommended	
HPE 800GB SAS 12G Mixed Use LFF (3.5in) LPC 3yr Wty Digitally Signed Firmware SSD (Recommended)	872380-B21
HPE 1.6TB SAS 12G Mixed Use LFF (3.5in) LPC 3yr Wty Digitally Signed Firmware SSD (Recommended)	872384-B21
Mixed Use - 6G SATA - M.2 - Solid State Drives - Recommended	
HPE 240GB SATA 6G Mixed Use M.2 2280 3yr Wty Digitally Signed Firmware SSD (Recommended)	875488-B21
HPE 240GB SATA 6G Mixed Use M.2 2280 3yr Wty Digitally Signed Firmware SSD (Recommended)  Mixed Use - 6G SATA - M.2 - Solid State Drives - Extended	875488-B21
	875488-B21 875490-B21
Mixed Use - 6G SATA - M.2 - Solid State Drives - Extended	
Mixed Use - 6G SATA - M.2 - Solid State Drives - Extended  HPE 480GB SATA 6G Mixed Use M.2 2280 3yr Wty Digitally Signed Firmware SSD (Extended)	875490-B21
Mixed Use - 6G SATA - M.2 - Solid State Drives - Extended  HPE 480GB SATA 6G Mixed Use M.2 2280 3yr Wty Digitally Signed Firmware SSD (Extended)  HPE 960GB SATA 6G Mixed Use M.2 2280 3yr Wty Digitally Signed Firmware SSD (Extended)  NOTE: Requires the M.2 universal enablement card kit (Recommended) (878783-B21) and use S100i SATA controller only.	875490-B21
Mixed Use - 6G SATA - M.2 - Solid State Drives - Extended  HPE 480GB SATA 6G Mixed Use M.2 2280 3yr Wty Digitally Signed Firmware SSD (Extended)  HPE 960GB SATA 6G Mixed Use M.2 2280 3yr Wty Digitally Signed Firmware SSD (Extended)  NOTE: Requires the M.2 universal enablement card kit (Recommended) (878783-B21) and use S100i SATA controller only.  NOTE: M.2 supports Software RAID only.	875490-B21
Mixed Use - 6G SATA - M.2 - Solid State Drives - Extended  HPE 480GB SATA 6G Mixed Use M.2 2280 3yr Wty Digitally Signed Firmware SSD (Extended)  HPE 960GB SATA 6G Mixed Use M.2 2280 3yr Wty Digitally Signed Firmware SSD (Extended)  NOTE: Requires the M.2 universal enablement card kit (Recommended) (878783-B21) and use S100i SATA controller only.  NOTE: M.2 supports Software RAID only.  NOTE: HPE ML350 Gen10 Redundant Fan Cage Kit (874572-B21) is required for M.2 drives.	875490-B21
Mixed Use - 6G SATA - M.2 - Solid State Drives - Extended  HPE 480GB SATA 6G Mixed Use M.2 2280 3yr Wty Digitally Signed Firmware SSD (Extended)  HPE 960GB SATA 6G Mixed Use M.2 2280 3yr Wty Digitally Signed Firmware SSD (Extended)  NOTE: Requires the M.2 universal enablement card kit (Recommended) (878783-B21) and use S100i SATA controller only.  NOTE: M.2 supports Software RAID only.  NOTE: HPE ML350 Gen10 Redundant Fan Cage Kit (874572-B21) is required for M.2 drives.  NOTE: HPE ML350 Gen10 NVMe 8SFF Exp Bay Kit (874569-B21) is required to support these drives.	875490-B21
Mixed Use - 6G SATA - M.2 - Solid State Drives - Extended  HPE 480GB SATA 6G Mixed Use M.2 2280 3yr Wty Digitally Signed Firmware SSD (Extended)  HPE 960GB SATA 6G Mixed Use M.2 2280 3yr Wty Digitally Signed Firmware SSD (Extended)  NOTE: Requires the M.2 universal enablement card kit (Recommended) (878783-B21) and use S100i SATA controller only.  NOTE: M.2 supports Software RAID only.  NOTE: HPE ML350 Gen10 Redundant Fan Cage Kit (874572-B21) is required for M.2 drives.  NOTE: HPE ML350 Gen10 NVMe 8SFF Exp Bay Kit (874569-B21) is required to support these drives.  NOTE: Max. support is one Gen10 ML350 NVMe 8SFF Exp Bay Kit (874569-B21) which can support up to	875490-B21
Mixed Use - 6G SATA - M.2 - Solid State Drives - Extended  HPE 480GB SATA 6G Mixed Use M.2 2280 3yr Wty Digitally Signed Firmware SSD (Extended)  HPE 960GB SATA 6G Mixed Use M.2 2280 3yr Wty Digitally Signed Firmware SSD (Extended)  NOTE: Requires the M.2 universal enablement card kit (Recommended) (878783-B21) and use S100i SATA controller only.  NOTE: M.2 supports Software RAID only.  NOTE: HPE ML350 Gen10 Redundant Fan Cage Kit (874572-B21) is required for M.2 drives.  NOTE: HPE ML350 Gen10 NVMe 8SFF Exp Bay Kit (874569-B21) is required to support these drives.  NOTE: Max. support is one Gen10 ML350 NVMe 8SFF Exp Bay Kit (874569-B21) which can support up to 8 NVMe solid state drives.	875490-B21
Mixed Use - 6G SATA - M.2 - Solid State Drives - Extended  HPE 480GB SATA 6G Mixed Use M.2 2280 3yr Wty Digitally Signed Firmware SSD (Extended)  HPE 960GB SATA 6G Mixed Use M.2 2280 3yr Wty Digitally Signed Firmware SSD (Extended)  NOTE: Requires the M.2 universal enablement card kit (Recommended) (878783-B21) and use S100i SATA controller only.  NOTE: M.2 supports Software RAID only.  NOTE: HPE ML350 Gen10 Redundant Fan Cage Kit (874572-B21) is required for M.2 drives.  NOTE: HPE ML350 Gen10 NVMe 8SFF Exp Bay Kit (874569-B21) is required to support these drives.  NOTE: Max. support is one Gen10 ML350 NVMe 8SFF Exp Bay Kit (874569-B21) which can support up to 8 NVMe solid state drives.  NOTE: NVMe support is limited in SFF systems.	875490-B21
Mixed Use - 6G SATA - M.2 - Solid State Drives - Extended  HPE 480GB SATA 6G Mixed Use M.2 2280 3yr Wty Digitally Signed Firmware SSD (Extended)  HPE 960GB SATA 6G Mixed Use M.2 2280 3yr Wty Digitally Signed Firmware SSD (Extended)  NOTE: Requires the M.2 universal enablement card kit (Recommended) (878783-B21) and use S100i SATA controller only.  NOTE: M.2 supports Software RAID only.  NOTE: HPE ML350 Gen10 Redundant Fan Cage Kit (874572-B21) is required for M.2 drives.  NOTE: HPE ML350 Gen10 NVMe 8SFF Exp Bay Kit (874569-B21) is required to support these drives.  NOTE: Max. support is one Gen10 ML350 NVMe 8SFF Exp Bay Kit (874569-B21) which can support up to 8 NVMe solid state drives.  NOTE: NVMe support is limited in SFF systems.  NOTE: NVMe drives require the addition of HPE ML350 Gen10 Redundant Fan Cage Kit (874572-B21).	875490-B21
Mixed Use - 6G SATA - M.2 - Solid State Drives - Extended  HPE 480GB SATA 6G Mixed Use M.2 2280 3yr Wty Digitally Signed Firmware SSD (Extended)  HPE 960GB SATA 6G Mixed Use M.2 2280 3yr Wty Digitally Signed Firmware SSD (Extended)  NOTE: Requires the M.2 universal enablement card kit (Recommended) (878783-B21) and use S100i SATA controller only.  NOTE: M.2 supports Software RAID only.  NOTE: HPE ML350 Gen10 Redundant Fan Cage Kit (874572-B21) is required for M.2 drives.  NOTE: HPE ML350 Gen10 NVMe 8SFF Exp Bay Kit (874569-B21) is required to support these drives.  NOTE: Max. support is one Gen10 ML350 NVMe 8SFF Exp Bay Kit (874569-B21) which can support up to 8 NVMe solid state drives.  NOTE: NVMe support is limited in SFF systems.  NOTE: NVMe drives require the addition of HPE ML350 Gen10 Redundant Fan Cage Kit (874572-B21).  NOTE: When used to run high-performance workloads, NVMe SSDs can cause the fans to operate at high	875490-B21
Mixed Use - 6G SATA - M.2 - Solid State Drives - Extended  HPE 480GB SATA 6G Mixed Use M.2 2280 3yr Wty Digitally Signed Firmware SSD (Extended)  HPE 960GB SATA 6G Mixed Use M.2 2280 3yr Wty Digitally Signed Firmware SSD (Extended)  NOTE: Requires the M.2 universal enablement card kit (Recommended) (878783-B21) and use S100i SATA controller only.  NOTE: M.2 supports Software RAID only.  NOTE: HPE ML350 Gen10 Redundant Fan Cage Kit (874572-B21) is required for M.2 drives.  NOTE: HPE ML350 Gen10 NVMe 8SFF Exp Bay Kit (874569-B21) is required to support these drives.  NOTE: Max. support is one Gen10 ML350 NVMe 8SFF Exp Bay Kit (874569-B21) which can support up to 8 NVMe solid state drives.  NOTE: NVMe support is limited in SFF systems.  NOTE: NVMe drives require the addition of HPE ML350 Gen10 Redundant Fan Cage Kit (874572-B21).  NOTE: When used to run high-performance workloads, NVMe SSDs can cause the fans to operate at high speeds to maintain optimum system cooling. This high-speed fan operation leads to a sound pressure level	875490-B21
Mixed Use - 6G SATA - M.2 - Solid State Drives - Extended  HPE 480GB SATA 6G Mixed Use M.2 2280 3yr Wty Digitally Signed Firmware SSD (Extended)  HPE 960GB SATA 6G Mixed Use M.2 2280 3yr Wty Digitally Signed Firmware SSD (Extended)  NOTE: Requires the M.2 universal enablement card kit (Recommended) (878783-B21) and use S100i SATA controller only.  NOTE: M.2 supports Software RAID only.  NOTE: HPE ML350 Gen10 Redundant Fan Cage Kit (874572-B21) is required for M.2 drives.  NOTE: HPE ML350 Gen10 NVMe 8SFF Exp Bay Kit (874569-B21) is required to support these drives.  NOTE: Max. support is one Gen10 ML350 NVMe 8SFF Exp Bay Kit (874569-B21) which can support up to 8 NVMe solid state drives.  NOTE: NVMe support is limited in SFF systems.  NOTE: NVMe drives require the addition of HPE ML350 Gen10 Redundant Fan Cage Kit (874572-B21).  NOTE: When used to run high-performance workloads, NVMe SSDs can cause the fans to operate at high	875490-B21
Mixed Use - 6G SATA - M.2 - Solid State Drives - Extended  HPE 480GB SATA 6G Mixed Use M.2 2280 3yr Wty Digitally Signed Firmware SSD (Extended)  HPE 960GB SATA 6G Mixed Use M.2 2280 3yr Wty Digitally Signed Firmware SSD (Extended)  NOTE: Requires the M.2 universal enablement card kit (Recommended) (878783-B21) and use S100i SATA controller only.  NOTE: M.2 supports Software RAID only.  NOTE: HPE ML350 Gen10 Redundant Fan Cage Kit (874572-B21) is required for M.2 drives.  NOTE: HPE ML350 Gen10 NVMe 8SFF Exp Bay Kit (874569-B21) is required to support these drives.  NOTE: Max. support is one Gen10 ML350 NVMe 8SFF Exp Bay Kit (874569-B21) which can support up to 8 NVMe solid state drives.  NOTE: NVMe support is limited in SFF systems.  NOTE: NVMe drives require the addition of HPE ML350 Gen10 Redundant Fan Cage Kit (874572-B21).  NOTE: When used to run high-performance workloads, NVMe SSDs can cause the fans to operate at high speeds to maintain optimum system cooling. This high-speed fan operation leads to a sound pressure level of between 50 dB(A) to 55 dB(A). Hewlett Packard Enterprise recommends taking this possible acoustic condition into consideration when selecting a site for a server that has NVMe SSDs installed.  NOTE: Not supported by HPE Smart Array controllers.	875490-B21
Mixed Use - 6G SATA - M.2 - Solid State Drives - Extended  HPE 480GB SATA 6G Mixed Use M.2 2280 3yr Wty Digitally Signed Firmware SSD (Extended)  HPE 960GB SATA 6G Mixed Use M.2 2280 3yr Wty Digitally Signed Firmware SSD (Extended)  NOTE: Requires the M.2 universal enablement card kit (Recommended) (878783-B21) and use S100i  SATA controller only.  NOTE: M.2 supports Software RAID only.  NOTE: HPE ML350 Gen10 Redundant Fan Cage Kit (874572-B21) is required for M.2 drives.  NOTE: HPE ML350 Gen10 NVMe 8SFF Exp Bay Kit (874569-B21) is required to support these drives.  NOTE: Max. support is one Gen10 ML350 NVMe 8SFF Exp Bay Kit (874569-B21) which can support up to 8 NVMe solid state drives.  NOTE: NVMe support is limited in SFF systems.  NOTE: NVMe drives require the addition of HPE ML350 Gen10 Redundant Fan Cage Kit (874572-B21).  NOTE: When used to run high-performance workloads, NVMe SSDs can cause the fans to operate at high speeds to maintain optimum system cooling. This high-speed fan operation leads to a sound pressure level of between 50 dB(A) to 55 dB(A). Hewlett Packard Enterprise recommends taking this possible acoustic condition into consideration when selecting a site for a server that has NVMe SSDs installed.  NOTE: Not supported by HPE Smart Array controllers.  NOTE: HPE has qualified the NVMe drive portfolio using the Operating System inbox drivers, full detail on	875490-B21
Mixed Use - 6G SATA - M.2 - Solid State Drives - Extended  HPE 480GB SATA 6G Mixed Use M.2 2280 3yr Wty Digitally Signed Firmware SSD (Extended)  HPE 960GB SATA 6G Mixed Use M.2 2280 3yr Wty Digitally Signed Firmware SSD (Extended)  NOTE: Requires the M.2 universal enablement card kit (Recommended) (878783-B21) and use S100i SATA controller only.  NOTE: M.2 supports Software RAID only.  NOTE: HPE ML350 Gen10 Redundant Fan Cage Kit (874572-B21) is required for M.2 drives.  NOTE: HPE ML350 Gen10 NVMe 8SFF Exp Bay Kit (874569-B21) is required to support these drives.  NOTE: Max. support is one Gen10 ML350 NVMe 8SFF Exp Bay Kit (874569-B21) which can support up to 8 NVMe solid state drives.  NOTE: NVMe support is limited in SFF systems.  NOTE: NVMe drives require the addition of HPE ML350 Gen10 Redundant Fan Cage Kit (874572-B21).  NOTE: When used to run high-performance workloads, NVMe SSDs can cause the fans to operate at high speeds to maintain optimum system cooling. This high-speed fan operation leads to a sound pressure level of between 50 dB(A) to 55 dB(A). Hewlett Packard Enterprise recommends taking this possible acoustic condition into consideration when selecting a site for a server that has NVMe SSDs installed.  NOTE: Not supported by HPE Smart Array controllers.  NOTE: HPE has qualified the NVMe drive portfolio using the Operating System inbox drivers, full detail on the HPE Solid State Drive QuickSpecs.	875490-B21
Mixed Use - 6G SATA - M.2 - Solid State Drives - Extended  HPE 480GB SATA 6G Mixed Use M.2 2280 3yr Wty Digitally Signed Firmware SSD (Extended)  HPE 960GB SATA 6G Mixed Use M.2 2280 3yr Wty Digitally Signed Firmware SSD (Extended)  NOTE: Requires the M.2 universal enablement card kit (Recommended) (878783-B21) and use S100i SATA controller only.  NOTE: M.2 supports Software RAID only.  NOTE: HPE ML350 Gen10 Redundant Fan Cage Kit (874572-B21) is required for M.2 drives.  NOTE: HPE ML350 Gen10 NVMe 8SFF Exp Bay Kit (874569-B21) is required to support these drives.  NOTE: Max. support is one Gen10 ML350 NVMe 8SFF Exp Bay Kit (874569-B21) which can support up to 8 NVMe solid state drives.  NOTE: NVMe support is limited in SFF systems.  NOTE: NVMe drives require the addition of HPE ML350 Gen10 Redundant Fan Cage Kit (874572-B21).  NOTE: When used to run high-performance workloads, NVMe SSDs can cause the fans to operate at high speeds to maintain optimum system cooling. This high-speed fan operation leads to a sound pressure level of between 50 dB(A) to 55 dB(A). Hewlett Packard Enterprise recommends taking this possible acoustic condition into consideration when selecting a site for a server that has NVMe SSDs installed.  NOTE: Not supported by HPE Smart Array controllers.  NOTE: HPE has qualified the NVMe drive portfolio using the Operating System inbox drivers, full detail on the HPE Solid State Drive QuickSpecs.  Read Intensive - NVMe - SFF - Solid State Drives - Extended	875490-B21 875492-B21
Mixed Use - 6G SATA - M.2 - Solid State Drives - Extended  HPE 480GB SATA 6G Mixed Use M.2 2280 3yr Wty Digitally Signed Firmware SSD (Extended)  HPE 960GB SATA 6G Mixed Use M.2 2280 3yr Wty Digitally Signed Firmware SSD (Extended)  NOTE: Requires the M.2 universal enablement card kit (Recommended) (878783-B21) and use S100i SATA controller only.  NOTE: M.2 supports Software RAID only.  NOTE: HPE ML350 Gen10 Redundant Fan Cage Kit (874572-B21) is required for M.2 drives.  NOTE: HPE ML350 Gen10 NVMe 8SFF Exp Bay Kit (874569-B21) is required to support these drives.  NOTE: Max. support is one Gen10 ML350 NVMe 8SFF Exp Bay Kit (874569-B21) which can support up to 8 NVMe solid state drives.  NOTE: NVMe support is limited in SFF systems.  NOTE: NVMe drives require the addition of HPE ML350 Gen10 Redundant Fan Cage Kit (874572-B21).  NOTE: When used to run high-performance workloads, NVMe SSDs can cause the fans to operate at high speeds to maintain optimum system cooling. This high-speed fan operation leads to a sound pressure level of between 50 dB(A) to 55 dB(A). Hewlett Packard Enterprise recommends taking this possible acoustic condition into consideration when selecting a site for a server that has NVMe SSDs installed.  NOTE: Not supported by HPE Smart Array controllers.  NOTE: HPE has qualified the NVMe drive portfolio using the Operating System inbox drivers, full detail on the HPE Solid State Drive QuickSpecs.  Read Intensive - NVMe - SFF - Solid State Drives - Extended  HPE 480GB NVMe x4 Lanes Read Intensive SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD	875490-B21
Mixed Use - 6G SATA - M.2 - Solid State Drives - Extended  HPE 480GB SATA 6G Mixed Use M.2 2280 3yr Wty Digitally Signed Firmware SSD (Extended)  HPE 960GB SATA 6G Mixed Use M.2 2280 3yr Wty Digitally Signed Firmware SSD (Extended)  NOTE: Requires the M.2 universal enablement card kit (Recommended) (878783-B21) and use S100i SATA controller only.  NOTE: M.2 supports Software RAID only.  NOTE: HPE ML350 Gen10 Redundant Fan Cage Kit (874572-B21) is required for M.2 drives.  NOTE: HPE ML350 Gen10 NVMe 8SFF Exp Bay Kit (874569-B21) is required to support these drives.  NOTE: Max. support is one Gen10 ML350 NVMe 8SFF Exp Bay Kit (874569-B21) which can support up to 8 NVMe solid state drives.  NOTE: NVMe support is limited in SFF systems.  NOTE: NVMe drives require the addition of HPE ML350 Gen10 Redundant Fan Cage Kit (874572-B21).  NOTE: When used to run high-performance workloads, NVMe SSDs can cause the fans to operate at high speeds to maintain optimum system cooling. This high-speed fan operation leads to a sound pressure level of between 50 dB(A) to 55 dB(A). Hewlett Packard Enterprise recommends taking this possible acoustic condition into consideration when selecting a site for a server that has NVMe SSDs installed.  NOTE: Not supported by HPE Smart Array controllers.  NOTE: HPE has qualified the NVMe drive portfolio using the Operating System inbox drivers, full detail on the HPE Solid State Drive QuickSpecs.  Read Intensive - NVMe - SFF - Solid State Drives - Extended  HPE 480GB NVMe x4 Lanes Read Intensive SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD (Extended)	875490-B21 875492-B21 875587-B21
Mixed Use - 6G SATA - M.2 - Solid State Drives - Extended  HPE 480GB SATA 6G Mixed Use M.2 2280 3yr Wty Digitally Signed Firmware SSD (Extended)  HPE 960GB SATA 6G Mixed Use M.2 2280 3yr Wty Digitally Signed Firmware SSD (Extended)  NOTE: Requires the M.2 universal enablement card kit (Recommended) (878783-B21) and use S100i SATA controller only.  NOTE: M.2 supports Software RAID only.  NOTE: HPE ML350 Gen10 Redundant Fan Cage Kit (874572-B21) is required for M.2 drives.  NOTE: HPE ML350 Gen10 NVMe 8SFF Exp Bay Kit (874569-B21) is required to support these drives.  NOTE: Max. support is one Gen10 ML350 NVMe 8SFF Exp Bay Kit (874569-B21) which can support up to 8 NVMe solid state drives.  NOTE: NVMe support is limited in SFF systems.  NOTE: NVMe drives require the addition of HPE ML350 Gen10 Redundant Fan Cage Kit (874572-B21).  NOTE: When used to run high-performance workloads, NVMe SSDs can cause the fans to operate at high speeds to maintain optimum system cooling. This high-speed fan operation leads to a sound pressure level of between 50 dB(A) to 55 dB(A). Hewlett Packard Enterprise recommends taking this possible acoustic condition into consideration when selecting a site for a server that has NVMe SSDs installed.  NOTE: Not supported by HPE Smart Array controllers.  NOTE: HPE has qualified the NVMe drive portfolio using the Operating System inbox drivers, full detail on the HPE Solid State Drive QuickSpecs.  Read Intensive - NVMe - SFF - Solid State Drives - Extended  HPE 480GB NVMe x4 Lanes Read Intensive SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD	875490-B21 875492-B21

HPE ML3 NOTE: Fi support ( HPE Univ NOTE: HI M.2 supp NOTE: In one M.2 e NOTE: HI selected/ HPE ML3 (Recomm NOTE: Ti drives. W NOTE: M' NOTE: N' NOTE: N' NOTE: N' Media/ODD HPE ML3 NOTE: Si NOTE: Si NOTE: Si NOTE: In Fan Redu to be inst Refer to I HPE ML3	ield upgrade only. Add add'l 4 LFF Non-Hot-Plug Hard Drive Cage, allowing for up to 12 LFF Drive (4+4+4). NHP drive cage is for NHP server only.  versal SATA HHHL 3yr Wty M.2 Kit (Recommended)  PE M.2 universal enablement card kit (Recommended) (878783-B21), which is required for SATA port.  Installation of this M.2 enablment card kit is limited to PCle slot 1, 2, 3 or 4. Max. in ML350 Gen10 is enablment card kit.  PE ML350 Gen10 Redundant Fan Cage Kit (874572-B21) is required when this card kit is limited for M.2 SSD support.  350 Gen10 8SFF NVMe SSD Express Bay Enablement Kit with 2x4NVMe Risers and Support Cables	874569-B21 874570-B21 874577-B21
HPE ML3 NOTE: Fi support ( HPE Univ NOTE: HI M.2 supp NOTE: In one M.2 e NOTE: HI selected/ HPE ML3 (Recomm NOTE: Ti drives. W NOTE: M' NOTE: N' NOTE: N' NOTE: N' Media/ODD HPE ML3 NOTE: Si NOTE: Si NOTE: Si NOTE: In Fan Redu to be inst Refer to I HPE ML3	ield upgrade only. Add add'l 4 LFF Non-Hot-Plug Hard Drive Cage, allowing for up to 12 LFF Drive (4+4+4). NHP drive cage is for NHP server only.  versal SATA HHHL 3yr Wty M.2 Kit (Recommended)  PE M.2 universal enablement card kit (Recommended) (878783-B21), which is required for SATA bort.  statllation of this M.2 enablment card kit is limited to PCle slot 1, 2, 3 or 4. Max. in ML350 Gen10 is enablment card kit.  PE ML350 Gen10 Redundant Fan Cage Kit (874572-B21) is required when this card kit is finstalled for M.2 SSD support.  350 Gen10 8SFF NVMe SSD Express Bay Enablement Kit with 2x4NVMe Risers and Support Cables nended)  his kit contains two x4 Direct Attach PCle NVMe Riser Boards with each supporting up to 4 NVMe when both Risers are installed, it supports 8 SFF NVMe drives.  lax. support is one Gen10 ML350 NVMe 8SFF Exp Bay Kit (874569-B21) with installation limited based on cable routing requirement.  FF NVMe SSDs to be ordered separately.  VMe support is limited in SFF systems.  VMe drives require the addition of HPE ML350 Gen10 Redundant Fan Cage Kit (874572-B21).  Bay Kits - Extended  350 Gen10 RDX/LTO Media Drive Support Cable Kit with Fan Blank for Long LTO (Extended) upporting cables to add additional RDX/tape devices for data backup or archiving.  DX/tape devices to be ordered separately.  v he case when LTO Internal Tape or Internal Disk Based Back up (RDX) is selected along with the undant Kit, Fan#1 will need to be removed and the Fan Blank provided in this option kit will need talled in Fan#1 location. This configuration will run without fan redundancy.  ML350 Gen10 Slimline ODD Bay and Support Cable Kit (Extended)	874569-B21 874570-B21
HPE ML3 NOTE: Fi support ( HPE Univ NOTE: HI M.2 supp NOTE: In one M.2 e NOTE: HI selected/ HPE ML3 (Recomm NOTE: Ti drives. W NOTE: M' NOTE: N' NOTE: N' Media/ODD HPE ML3 NOTE: SI NOTE: SI NOTE: SI NOTE: SI NOTE: In Fan Redu to be inst Refer to J	ield upgrade only. Add add'l 4 LFF Non-Hot-Plug Hard Drive Cage, allowing for up to 12 LFF Drive (4+4+4). NHP drive cage is for NHP server only.  versal SATA HHHL 3yr Wty M.2 Kit (Recommended)  PE M.2 universal enablement card kit (Recommended) (878783-B21), which is required for SATA bort.  statllation of this M.2 enablment card kit is limited to PCle slot 1, 2, 3 or 4. Max. in ML350 Gen10 is enablment card kit.  PE ML350 Gen10 Redundant Fan Cage Kit (874572-B21) is required when this card kit is (installed for M.2 SSD support.  350 Gen10 8SFF NVMe SSD Express Bay Enablement Kit with 2x4NVMe Risers and Support Cables nended)  his kit contains two x4 Direct Attach PCle NVMe Riser Boards with each supporting up to 4 NVMe (then both Risers are installed, it supports 8 SFF NVMe drives.  lax. support is one Gen10 ML350 NVMe 8SFF Exp Bay Kit (874569-B21) with installation limited based on cable routing requirement.  FF NVMe SSDs to be ordered separately.  VMe support is limited in SFF systems.  VMe drives require the addition of HPE ML350 Gen10 Redundant Fan Cage Kit (874572-B21).  Bay Kits - Extended  350 Gen10 RDX/LTO Media Drive Support Cable Kit with Fan Blank for Long LTO (Extended) upporting cables to add additional RDX/tape devices for data backup or archiving.  DX/tape devices to be ordered separately.  of the case when LTO Internal Tape or Internal Disk Based Back up (RDX) is selected along with the undant Kit, Fan#1 will need to be removed and the Fan Blank provided in this option kit will need talled in Fan#1 location. This configuration will run without fan redundancy.  ML350 Gen10 User Guide for more detail.	874569-B21 874570-B21
HPE ML3 NOTE: Fi support ( HPE Univ NOTE: HI M.2 supp NOTE: In one M.2 e NOTE: HI selected/ HPE ML3 (Recomm NOTE: TI drives. W NOTE: M' NOTE: N' NOTE: N' NOTE: N' Media/ODD HPE ML3 NOTE: SI NOTE: SI NOTE: In Fan Redu to be inst	ield upgrade only. Add add'l 4 LFF Non-Hot-Plug Hard Drive Cage, allowing for up to 12 LFF Drive (4+4+4). NHP drive cage is for NHP server only.  versal SATA HHHL 3yr Wty M.2 Kit (Recommended)  IPE M.2 universal enablement card kit (Recommended) (878783-B21), which is required for SATA bort.  Installation of this M.2 enablment card kit is limited to PCle slot 1, 2, 3 or 4. Max. in ML350 Gen10 is enablment card kit.  IPE ML350 Gen10 Redundant Fan Cage Kit (874572-B21) is required when this card kit is finistalled for M.2 SSD support.  350 Gen10 8SFF NVMe SSD Express Bay Enablement Kit with 2x4NVMe Risers and Support Cables beneded)  In his kit contains two x4 Direct Attach PCle NVMe Riser Boards with each supporting up to 4 NVMe (Nen both Risers are installed, it supports 8 SFF NVMe drives.  Iax. support is one Gen10 ML350 NVMe 8SFF Exp Bay Kit (874569-B21) with installation limited based on cable routing requirement.  IFF NVMe SSDs to be ordered separately.  VMe support is limited in SFF systems.  VMe drives require the addition of HPE ML350 Gen10 Redundant Fan Cage Kit (874572-B21).  Bay Kits - Extended  350 Gen10 RDX/LTO Media Drive Support Cable Kit with Fan Blank for Long LTO (Extended) upporting cables to add additional RDX/tape devices for data backup or archiving.  DX/tape devices to be ordered separately.  It the case when LTO Internal Tape or Internal Disk Based Back up (RDX) is selected along with the undant Kit, Fan#1 will need to be removed and the Fan Blank provided in this option kit will need talled in Fan#1 location. This configuration will run without fan redundancy.	874569-B21
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HPE ML3 NOTE: Fi support ( HPE Univ NOTE: H M.2 supp NOTE: In one M.2 e NOTE: H selected/ HPE ML3 (Recomm NOTE: Ti drives. W NOTE: M to Box 2 NOTE: N' NOTE: N' NOTE: N' Media/ODD HPE ML3 NOTE: St	ield upgrade only. Add add'l 4 LFF Non-Hot-Plug Hard Drive Cage, allowing for up to 12 LFF Drive (4+4+4). NHP drive cage is for NHP server only.  versal SATA HHHL 3yr Wty M.2 Kit (Recommended)  PE M.2 universal enablement card kit (Recommended) (878783-B21), which is required for SATA port.  Installation of this M.2 enablment card kit is limited to PCle slot 1, 2, 3 or 4. Max. in ML350 Gen10 is enablment card kit.  IPE ML350 Gen10 Redundant Fan Cage Kit (874572-B21) is required when this card kit is (installed for M.2 SSD support.  IS50 Gen10 8SFF NVMe SSD Express Bay Enablement Kit with 2x4NVMe Risers and Support Cables mended)  In kit contains two x4 Direct Attach PCle NVMe Riser Boards with each supporting up to 4 NVMe (then both Risers are installed, it supports 8 SFF NVMe drives.  Iax. support is one Gen10 ML350 NVMe 8SFF Exp Bay Kit (874569-B21) with installation limited based on cable routing requirement.  FF NVMe SSDs to be ordered separately.  VMe support is limited in SFF systems.  VMe drives require the addition of HPE ML350 Gen10 Redundant Fan Cage Kit (874572-B21).  Bay Kits - Extended  In ST	874569-B21
HPE ML3 NOTE: Fi support ( HPE Univ NOTE: H M.2 supp NOTE: In one M.2 e NOTE: H selected/ HPE ML3 (Recomm NOTE: Ti drives. W NOTE: M to Box 2 NOTE: SF NOTE: N' NOTE: N' Media/ODD HPE ML3	ield upgrade only. Add add'l 4 LFF Non-Hot-Plug Hard Drive Cage, allowing for up to 12 LFF Drive (4+4+4). NHP drive cage is for NHP server only.  versal SATA HHHL 3yr Wty M.2 Kit (Recommended)  IPE M.2 universal enablement card kit (Recommended) (878783-B21), which is required for SATA bort.  sistallation of this M.2 enablment card kit is limited to PCle slot 1, 2, 3 or 4. Max. in ML350 Gen10 is enablment card kit.  IPE ML350 Gen10 Redundant Fan Cage Kit (874572-B21) is required when this card kit is (installed for M.2 SSD support.  350 Gen10 8SFF NVMe SSD Express Bay Enablement Kit with 2x4NVMe Risers and Support Cables mended)  his kit contains two x4 Direct Attach PCle NVMe Riser Boards with each supporting up to 4 NVMe (hen both Risers are installed, it supports 8 SFF NVMe drives.  lax. support is one Gen10 ML350 NVMe 8SFF Exp Bay Kit (874569-B21) with installation limited based on cable routing requirement.  FF NVMe SSDs to be ordered separately.  VMe support is limited in SFF systems.  VMe drives require the addition of HPE ML350 Gen10 Redundant Fan Cage Kit (874572-B21).  Bay Kits - Extended  350 Gen10 RDX/LTO Media Drive Support Cable Kit with Fan Blank for Long LTO (Extended)	874569-B21
HPE ML3 NOTE: Fi support ( HPE Univ NOTE: HI M.2 supp NOTE: In one M.2 e NOTE: HI selected/ HPE ML3 (Recomm NOTE: TI drives. W NOTE: M to Box 2 NOTE: SE NOTE: N' NOTE: N' Media/ODD	ield upgrade only. Add add'l 4 LFF Non-Hot-Plug Hard Drive Cage, allowing for up to 12 LFF Drive (4+4+4). NHP drive cage is for NHP server only.  IVE M.2 universal enablement card kit (Recommended)  IVE M.2 universal enablement card kit (Recommended) (878783-B21), which is required for SATA bort.  INSTALLATION OF THIS M.2 enablement card kit is limited to PCle slot 1, 2, 3 or 4. Max. in ML350 Gen10 is enablement card kit.  IVE ML350 Gen10 Redundant Fan Cage Kit (874572-B21) is required when this card kit is (installed for M.2 SSD support.  INSTALLATION OF THE METERSAL STATE OF THE METERS	874569-B21
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HPE ML3 NOTE: Fi support ( HPE Univ NOTE: HI M.2 supp NOTE: In one M.2 e NOTE: HI selected/ HPE ML3 (Recomm NOTE: Ti drives. W NOTE: M to Box 2	ield upgrade only. Add add'l 4 LFF Non-Hot-Plug Hard Drive Cage, allowing for up to 12 LFF Drive (4+4+4). NHP drive cage is for NHP server only.  versal SATA HHHL 3yr Wty M.2 Kit (Recommended)  IPE M.2 universal enablement card kit (Recommended) (878783-B21), which is required for SATA port.  Installation of this M.2 enablement card kit is limited to PCle slot 1, 2, 3 or 4. Max. in ML350 Gen10 is enablement card kit.  IPE ML350 Gen10 Redundant Fan Cage Kit (874572-B21) is required when this card kit is (installed for M.2 SSD support.  INSTALLATION OF THE WAY OF THE SET OF THE STATE O	
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HPE ML3 NOTE: Fi support ( HPE Univ NOTE: H M.2 supp NOTE: In one M.2 e NOTE: H selected/ HPE ML3 (Recomm NOTE: TI drives. W	ield upgrade only. Add add'l 4 LFF Non-Hot-Plug Hard Drive Cage, allowing for up to 12 LFF Drive (4+4+4). NHP drive cage is for NHP server only.  versal SATA HHHL 3yr Wty M.2 Kit (Recommended)  PE M.2 universal enablement card kit (Recommended) (878783-B21), which is required for SATA bort.  Installation of this M.2 enablment card kit is limited to PCle slot 1, 2, 3 or 4. Max. in ML350 Gen10 is enablment card kit.  PE ML350 Gen10 Redundant Fan Cage Kit (874572-B21) is required when this card kit is (installed for M.2 SSD support.  350 Gen10 8SFF NVMe SSD Express Bay Enablement Kit with 2x4NVMe Risers and Support Cables hended)  his kit contains two x4 Direct Attach PCle NVMe Riser Boards with each supporting up to 4 NVMe (then both Risers are installed, it supports 8 SFF NVMe drives.	
HPE ML3 NOTE: Fi support ( HPE Univ NOTE: H M.2 supp NOTE: In one M.2 & NOTE: H selected/ HPE ML3 (Recomm	ield upgrade only. Add add'l 4 LFF Non-Hot-Plug Hard Drive Cage, allowing for up to 12 LFF Drive (4+4+4). NHP drive cage is for NHP server only.  versal SATA HHHL 3yr Wty M.2 Kit (Recommended)  PE M.2 universal enablement card kit (Recommended) (878783-B21), which is required for SATA bort.  Installation of this M.2 enablment card kit is limited to PCle slot 1, 2, 3 or 4. Max. in ML350 Gen10 is enablment card kit.  PE ML350 Gen10 Redundant Fan Cage Kit (874572-B21) is required when this card kit is (installed for M.2 SSD support.  350 Gen10 8SFF NVMe SSD Express Bay Enablement Kit with 2x4NVMe Risers and Support Cables nended)  his kit contains two x4 Direct Attach PCle NVMe Riser Boards with each supporting up to 4 NVMe	
HPE ML3 NOTE: Fi support ( HPE Univ NOTE: H M.2 supp NOTE: In one M.2 e NOTE: H selected/ HPE ML3 (Recomm	ield upgrade only. Add add'l 4 LFF Non-Hot-Plug Hard Drive Cage, allowing for up to 12 LFF Drive (4+4+4). NHP drive cage is for NHP server only.  versal SATA HHHL 3yr Wty M.2 Kit (Recommended)  IPE M.2 universal enablement card kit (Recommended) (878783-B21), which is required for SATA bort.  Installation of this M.2 enablment card kit is limited to PCle slot 1, 2, 3 or 4. Max. in ML350 Gen10 is enablment card kit.  IPE ML350 Gen10 Redundant Fan Cage Kit (874572-B21) is required when this card kit is limitalled for M.2 SSD support.  350 Gen10 8SFF NVMe SSD Express Bay Enablement Kit with 2x4NVMe Risers and Support Cables mended)	
HPE ML3 NOTE: Fi support ( HPE Univ NOTE: H M.2 supp NOTE: In one M.2 e NOTE: H selected/	ield upgrade only. Add add'l 4 LFF Non-Hot-Plug Hard Drive Cage, allowing for up to 12 LFF Drive (4+4+4). NHP drive cage is for NHP server only.  versal SATA HHHL 3yr Wty M.2 Kit (Recommended)  PE M.2 universal enablement card kit (Recommended) (878783-B21), which is required for SATA port.  Installation of this M.2 enablment card kit is limited to PCle slot 1, 2, 3 or 4. Max. in ML350 Gen10 is enablment card kit.  PE ML350 Gen10 Redundant Fan Cage Kit (874572-B21) is required when this card kit is limited for M.2 SSD support.  350 Gen10 8SFF NVMe SSD Express Bay Enablement Kit with 2x4NVMe Risers and Support Cables	
HPE ML3 NOTE: Fi support ( HPE Univ NOTE: H M.2 supp NOTE: In one M.2 e NOTE: H selected/	ield upgrade only. Add add'l 4 LFF Non-Hot-Plug Hard Drive Cage, allowing for up to 12 LFF Drive (4+4+4). NHP drive cage is for NHP server only.  versal SATA HHHL 3yr Wty M.2 Kit (Recommended)  IPE M.2 universal enablement card kit (Recommended) (878783-B21), which is required for SATA port.  Installation of this M.2 enablment card kit is limited to PCle slot 1, 2, 3 or 4. Max. in ML350 Gen10 is enablment card kit.  IPE ML350 Gen10 Redundant Fan Cage Kit (874572-B21) is required when this card kit is limited for M.2 SSD support.	
HPE ML3 NOTE: Fi support ( HPE Univ NOTE: H M.2 supp NOTE: In one M.2 & NOTE: H	ield upgrade only. Add add'l 4 LFF Non-Hot-Plug Hard Drive Cage, allowing for up to 12 LFF Drive (4+4+4). NHP drive cage is for NHP server only.  versal SATA HHHL 3yr Wty M.2 Kit (Recommended)  IPE M.2 universal enablement card kit (Recommended) (878783-B21), which is required for SATA port.  Installation of this M.2 enablment card kit is limited to PCle slot 1, 2, 3 or 4. Max. in ML350 Gen10 is enablment card kit.  IPE ML350 Gen10 Redundant Fan Cage Kit (874572-B21) is required when this card kit is	878783-B21
HPE ML3 NOTE: Fi support ( HPE Univ NOTE: H M.2 supp NOTE: In one M.2 6	ield upgrade only. Add add'l 4 LFF Non-Hot-Plug Hard Drive Cage, allowing for up to 12 LFF Drive (4+4+4). NHP drive cage is for NHP server only.  versal SATA HHHL 3yr Wty M.2 Kit (Recommended)  IPE M.2 universal enablement card kit (Recommended) (878783-B21), which is required for SATA port.  installation of this M.2 enablment card kit is limited to PCIe slot 1, 2, 3 or 4. Max. in ML350 Gen10 is enablment card kit.	878783-B21
HPE ML3 NOTE: Fi support ( HPE Univ NOTE: H M.2 supp NOTE: In	ield upgrade only. Add add'l 4 LFF Non-Hot-Plug Hard Drive Cage, allowing for up to 12 LFF Drive (4+4+4). NHP drive cage is for NHP server only.  versal SATA HHHL 3yr Wty M.2 Kit (Recommended)  IPE M.2 universal enablement card kit (Recommended) (878783-B21), which is required for SATA port.  installation of this M.2 enablment card kit is limited to PCIe slot 1, 2, 3 or 4. Max. in ML350 Gen10 is	878783-B21
HPE ML3 NOTE: Fi support ( HPE Univ NOTE: H M.2 supp	ield upgrade only. Add add'l 4 LFF Non-Hot-Plug Hard Drive Cage, allowing for up to 12 LFF Drive (4+4+4). NHP drive cage is for NHP server only. versal SATA HHHL 3yr Wty M.2 Kit (Recommended) IPE M.2 universal enablement card kit (Recommended) (878783-B21), which is required for SATA port.	878783-B21
HPE ML3 NOTE: Fi support ( HPE Univ	ield upgrade only. Add add'l 4 LFF Non-Hot-Plug Hard Drive Cage, allowing for up to 12 LFF Drive (4+4+4). NHP drive cage is for NHP server only. versal SATA HHHL 3yr Wty M.2 Kit (Recommended) IPE M.2 universal enablement card kit (Recommended) (878783-B21), which is required for SATA	878783-B21
HPE ML3  NOTE: Fi  support (  HPE Univ	ield upgrade only. Add add'l 4 LFF Non-Hot-Plug Hard Drive Cage, allowing for up to 12 LFF Drive (4+4+4). NHP drive cage is for NHP server only.  versal SATA HHHL 3yr Wty M.2 Kit (Recommended)	878783-B21
HPE ML3  NOTE: Fi support (	ield upgrade only. Add add'l 4 LFF Non-Hot-Plug Hard Drive Cage, allowing for up to 12 LFF Drive (4+4+4). NHP drive cage is for NHP server only.	
HPE ML3 <b>NOTE:</b> Fi	ield upgrade only. Add add'l 4 LFF Non-Hot-Plug Hard Drive Cage, allowing for up to 12 LFF Drive	
HPE ML3		
	350 Gen10 4LFF Non Hot Plug Drive Cage Kit (Recommended)	874567-B21
NOTE: A	dd add'l 4 LFF Hot-Plug Hard Drive Cage, allowing for up to 12 LFF Drive support (4+4+4).	
	350 Gen10 4LFF Hot Plug Drive Backplane Cage Kit (Recommended)	874566-B21
	dd add'l 8 SFF Hot-Plug Hard Drive Cage, allowing for up to 24 SFF Drive support (8+8+8).	
	350 Gen10 8SFF Hot Plug Drive Backplane Cage Kit (Recommended)	874568-B21
	Kits - Recommended	
	9 LFF HDD Spade Blank Kit (Recommended)	807878-B21
	all Form Factor Hard Drive Blank Kit (Recommended)	666987-B21
	Blank Kits - Recommended	///007.504
	TB NVMe x4 Lanes Mixed Use SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD (Extended)	875597-B21
	NVMe - SFF - Solid State Drives - Extended	075507 504
(Recomm		
	OGB NVMe x4 Lanes Mixed Use SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD	875595-B21
(Recomm		.=========
	OGB NVMe x4 Lanes Mixed Use SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD	875593-B21
(Recomm		
HPE 375	GB NVMe x4 Lanes Write Intensive SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD	878014-B21
Mixed Use -	NVMe - SFF - Solid State Drives - Recommended	
HPE 4TB	3 NVMe x4 Lanes Read Intensive SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD (Extended)	877988-B21

#### HPE Networking

# 1 Gigabit Ethernet adapters - Recommended

HPE Ethernet 1Gb 4-port 331T Adapter (Recommended)	647594-B21
HPE Ethernet 1Gb 4-port 366T Adapter (Recommended)	811546-B21

# **Core Options**

1 Gigabit Ethernet adapters - Extended	
HPE Ethernet 1Gb 2-port 332T Adapter (Extended)	615732-B21
HPE Ethernet 1Gb 2-port 361T Adapter (Extended)	652497-B21
10 Gigabit Ethernet adapters - Recommended	
<b>NOTE:</b> HPE ML350 Gen10 Redundant Fan Cage Kit with 4 Fan Modules (Recommended) (874572-B21) is required.	
HPE Ethernet 10Gb 2-port 530T Adapter (Recommended)	656596-B21
HPE Ethernet 10Gb 2-port 535T Adapter (Recommended)	813661-B21
HPE Ethernet 10Gb 2-port 530SFP Adapter (Recommended)	652503-B21
10 Gigabit Ethernet adapters - Extended	
<b>NOTE:</b> HPE ML350 Gen10 Redundant Fan Cage Kit with 4 Fan Modules (Recommended) (874572-B21) is required.	
HPE Ethernet 10Gb 2-port 521T Adapter (Extended)	867707-B21
HPE Ethernet 10Gb 2-port 562T Adapter (Extended)	817738-B21
HPE Ethernet 10Gb 2-port 562SFP+ Adapter (Extended)	727055-B21
25 Gigabit Ethernet adapters - Recommended	
<b>NOTE:</b> HPE ML350 Gen10 Redundant Fan Cage Kit with 4 Fan Modules (Recommended) (874572-B21) is required.	
HPE Ethernet 10/25Gb 2-port 631SFP28 Adapter (Recommended)	817718-B21
HPE Ethernet 10/25Gb 2-port 640SFP28 Adapter (Recommended)	817753-B21
25 Gigabit Ethernet adapters - Extended	
NOTE: HPE ML350 Gen10 Redundant Fan Cage Kit with 4 Fan Modules (Recommended) (874572-B21) is	
required.	
HPE Ethernet 10/25Gb 2-port 621SFP28 Adapter (Extended)	867328-B21
HPE InfiniBand - Recommended	
HPE 100Gb 1-port OP101 QSFP28 x16 PCIe Gen3 with Intel Omni-Path Architecture Adapter (Recommended)	829335-B21
HPE 100Gb 1-port OP101 QSFP28 x16 PCle Gen3 with Intel Omni-Path Architecture Adapter (Recommended)  NOTE: HPE ML350 Gen10 Redundant Fan Cage Kit with 4 Fan Modules (Recommended) (874572-B21) is	829335-B21
HPE 100Gb 1-port OP101 QSFP28 x16 PCIe Gen3 with Intel Omni-Path Architecture Adapter (Recommended)  NOTE: HPE ML350 Gen10 Redundant Fan Cage Kit with 4 Fan Modules (Recommended) (874572-B21) is required to support this card.	829335-B21
HPE 100Gb 1-port OP101 QSFP28 x16 PCle Gen3 with Intel Omni-Path Architecture Adapter (Recommended)  NOTE: HPE ML350 Gen10 Redundant Fan Cage Kit with 4 Fan Modules (Recommended) (874572-B21) is	829335-B21
HPE 100Gb 1-port OP101 QSFP28 x16 PCle Gen3 with Intel Omni-Path Architecture Adapter (Recommended)  NOTE: HPE ML350 Gen10 Redundant Fan Cage Kit with 4 Fan Modules (Recommended) (874572-B21) is required to support this card.  HPE InfiniBand - Extended  HPE InfiniBand FDR/Ethernet 10Gb/40Gb 2-port 544+QSFP Adapter (Extended)	764284-B21
HPE 100Gb 1-port OP101 QSFP28 x16 PCle Gen3 with Intel Omni-Path Architecture Adapter (Recommended)  NOTE: HPE ML350 Gen10 Redundant Fan Cage Kit with 4 Fan Modules (Recommended) (874572-B21) is required to support this card.  HPE InfiniBand - Extended  HPE InfiniBand FDR/Ethernet 10Gb/40Gb 2-port 544+QSFP Adapter (Extended)  HPE InfiniBand EDR/Ethernet 100Gb 1-port 840QSFP28 Adapter (Extended)	
HPE 100Gb 1-port OP101 QSFP28 x16 PCle Gen3 with Intel Omni-Path Architecture Adapter (Recommended)  NOTE: HPE ML350 Gen10 Redundant Fan Cage Kit with 4 Fan Modules (Recommended) (874572-B21) is required to support this card.  HPE InfiniBand - Extended  HPE InfiniBand FDR/Ethernet 10Gb/40Gb 2-port 544+QSFP Adapter (Extended)  HPE InfiniBand EDR/Ethernet 100Gb 1-port 840QSFP28 Adapter (Extended)  NOTE: HPE ML350 Gen10 Redundant Fan Cage Kit with 4 Fan Modules (Recommended) (874572-B21) is	764284-B21
HPE 100Gb 1-port OP101 QSFP28 x16 PCle Gen3 with Intel Omni-Path Architecture Adapter (Recommended)  NOTE: HPE ML350 Gen10 Redundant Fan Cage Kit with 4 Fan Modules (Recommended) (874572-B21) is required to support this card.  HPE InfiniBand - Extended  HPE InfiniBand FDR/Ethernet 10Gb/40Gb 2-port 544+QSFP Adapter (Extended)  HPE InfiniBand EDR/Ethernet 100Gb 1-port 840QSFP28 Adapter (Extended)  NOTE: HPE ML350 Gen10 Redundant Fan Cage Kit with 4 Fan Modules (Recommended) (874572-B21) is required to support this card.	764284-B21 825110-B21
HPE 100Gb 1-port OP101 QSFP28 x16 PCle Gen3 with Intel Omni-Path Architecture Adapter (Recommended)  NOTE: HPE ML350 Gen10 Redundant Fan Cage Kit with 4 Fan Modules (Recommended) (874572-B21) is required to support this card.  HPE InfiniBand - Extended  HPE InfiniBand FDR/Ethernet 10Gb/40Gb 2-port 544+QSFP Adapter (Extended)  HPE InfiniBand EDR/Ethernet 100Gb 1-port 840QSFP28 Adapter (Extended)  NOTE: HPE ML350 Gen10 Redundant Fan Cage Kit with 4 Fan Modules (Recommended) (874572-B21) is required to support this card.  HPE InfiniBand EDR/Ethernet 100Gb 2-port 840QSFP28 Adapter (Extended)	764284-B21
HPE 100Gb 1-port OP101 QSFP28 x16 PCle Gen3 with Intel Omni-Path Architecture Adapter (Recommended)  NOTE: HPE ML350 Gen10 Redundant Fan Cage Kit with 4 Fan Modules (Recommended) (874572-B21) is required to support this card.  HPE InfiniBand - Extended  HPE InfiniBand FDR/Ethernet 10Gb/40Gb 2-port 544+QSFP Adapter (Extended)  HPE InfiniBand EDR/Ethernet 100Gb 1-port 840QSFP28 Adapter (Extended)  NOTE: HPE ML350 Gen10 Redundant Fan Cage Kit with 4 Fan Modules (Recommended) (874572-B21) is required to support this card.  HPE InfiniBand EDR/Ethernet 100Gb 2-port 840QSFP28 Adapter (Extended)  NOTE: HPE ML350 Gen10 Redundant Fan Cage Kit with 4 Fan Modules (Recommended) (874572-B21) is	764284-B21 825110-B21
HPE 100Gb 1-port OP101 QSFP28 x16 PCle Gen3 with Intel Omni-Path Architecture Adapter (Recommended)  NOTE: HPE ML350 Gen10 Redundant Fan Cage Kit with 4 Fan Modules (Recommended) (874572-B21) is required to support this card.  HPE InfiniBand - Extended  HPE InfiniBand FDR/Ethernet 10Gb/40Gb 2-port 544+QSFP Adapter (Extended)  HPE InfiniBand EDR/Ethernet 100Gb 1-port 840QSFP28 Adapter (Extended)  NOTE: HPE ML350 Gen10 Redundant Fan Cage Kit with 4 Fan Modules (Recommended) (874572-B21) is required to support this card.  HPE InfiniBand EDR/Ethernet 100Gb 2-port 840QSFP28 Adapter (Extended)  NOTE: HPE ML350 Gen10 Redundant Fan Cage Kit with 4 Fan Modules (Recommended) (874572-B21) is required to support this card.	764284-B21 825110-B21 825111-B21
HPE 100Gb 1-port OP101 QSFP28 x16 PCle Gen3 with Intel Omni-Path Architecture Adapter (Recommended)  NOTE: HPE ML350 Gen10 Redundant Fan Cage Kit with 4 Fan Modules (Recommended) (874572-B21) is required to support this card.  HPE InfiniBand - Extended  HPE InfiniBand FDR/Ethernet 10Gb/40Gb 2-port 544+QSFP Adapter (Extended)  HPE InfiniBand EDR/Ethernet 100Gb 1-port 840QSFP28 Adapter (Extended)  NOTE: HPE ML350 Gen10 Redundant Fan Cage Kit with 4 Fan Modules (Recommended) (874572-B21) is required to support this card.  HPE InfiniBand EDR/Ethernet 100Gb 2-port 840QSFP28 Adapter (Extended)  NOTE: HPE ML350 Gen10 Redundant Fan Cage Kit with 4 Fan Modules (Recommended) (874572-B21) is required to support this card.  HPE Ethernet 100Gb 1-port 842QSFP28 Adapter (Extended)	764284-B21 825110-B21
HPE 100Gb 1-port OP101 QSFP28 x16 PCle Gen3 with Intel Omni-Path Architecture Adapter (Recommended)  NOTE: HPE ML350 Gen10 Redundant Fan Cage Kit with 4 Fan Modules (Recommended) (874572-B21) is required to support this card.  HPE InfiniBand - Extended  HPE InfiniBand FDR/Ethernet 10Gb/40Gb 2-port 544+QSFP Adapter (Extended)  HPE InfiniBand EDR/Ethernet 100Gb 1-port 840QSFP28 Adapter (Extended)  NOTE: HPE ML350 Gen10 Redundant Fan Cage Kit with 4 Fan Modules (Recommended) (874572-B21) is required to support this card.  HPE InfiniBand EDR/Ethernet 100Gb 2-port 840QSFP28 Adapter (Extended)  NOTE: HPE ML350 Gen10 Redundant Fan Cage Kit with 4 Fan Modules (Recommended) (874572-B21) is required to support this card.  HPE Ethernet 100Gb 1-port 842QSFP28 Adapter (Extended)  NOTE: HPE ML350 Gen10 Redundant Fan Cage Kit with 4 Fan Modules (Recommended) (874572-B21) is	764284-B21 825110-B21 825111-B21
HPE 100Gb 1-port OP101 QSFP28 x16 PCle Gen3 with Intel Omni-Path Architecture Adapter (Recommended)  NOTE: HPE ML350 Gen10 Redundant Fan Cage Kit with 4 Fan Modules (Recommended) (874572-B21) is required to support this card.  HPE InfiniBand - Extended  HPE InfiniBand FDR/Ethernet 10Gb/40Gb 2-port 544+QSFP Adapter (Extended)  HPE InfiniBand EDR/Ethernet 100Gb 1-port 840QSFP28 Adapter (Extended)  NOTE: HPE ML350 Gen10 Redundant Fan Cage Kit with 4 Fan Modules (Recommended) (874572-B21) is required to support this card.  HPE InfiniBand EDR/Ethernet 100Gb 2-port 840QSFP28 Adapter (Extended)  NOTE: HPE ML350 Gen10 Redundant Fan Cage Kit with 4 Fan Modules (Recommended) (874572-B21) is required to support this card.  HPE Ethernet 100Gb 1-port 842QSFP28 Adapter (Extended)	764284-B21 825110-B21 825111-B21
HPE 100Gb 1-port OP101 QSFP28 x16 PCle Gen3 with Intel Omni-Path Architecture Adapter (Recommended)  NOTE: HPE ML350 Gen10 Redundant Fan Cage Kit with 4 Fan Modules (Recommended) (874572-B21) is required to support this card.  HPE InfiniBand - Extended  HPE InfiniBand FDR/Ethernet 10Gb/40Gb 2-port 544+QSFP Adapter (Extended)  HPE InfiniBand EDR/Ethernet 100Gb 1-port 840QSFP28 Adapter (Extended)  NOTE: HPE ML350 Gen10 Redundant Fan Cage Kit with 4 Fan Modules (Recommended) (874572-B21) is required to support this card.  HPE InfiniBand EDR/Ethernet 100Gb 2-port 840QSFP28 Adapter (Extended)  NOTE: HPE ML350 Gen10 Redundant Fan Cage Kit with 4 Fan Modules (Recommended) (874572-B21) is required to support this card.  HPE Ethernet 100Gb 1-port 842QSFP28 Adapter (Extended)  NOTE: HPE ML350 Gen10 Redundant Fan Cage Kit with 4 Fan Modules (Recommended) (874572-B21) is	764284-B21 825110-B21 825111-B21
HPE 100Gb 1-port OP101 QSFP28 x16 PCle Gen3 with Intel Omni-Path Architecture Adapter (Recommended)  NOTE: HPE ML350 Gen10 Redundant Fan Cage Kit with 4 Fan Modules (Recommended) (874572-B21) is required to support this card.  HPE InfiniBand - Extended  HPE InfiniBand FDR/Ethernet 10Gb/40Gb 2-port 544+QSFP Adapter (Extended)  HPE InfiniBand EDR/Ethernet 100Gb 1-port 840QSFP28 Adapter (Extended)  NOTE: HPE ML350 Gen10 Redundant Fan Cage Kit with 4 Fan Modules (Recommended) (874572-B21) is required to support this card.  HPE InfiniBand EDR/Ethernet 100Gb 2-port 840QSFP28 Adapter (Extended)  NOTE: HPE ML350 Gen10 Redundant Fan Cage Kit with 4 Fan Modules (Recommended) (874572-B21) is required to support this card.  HPE Ethernet 100Gb 1-port 842QSFP28 Adapter (Extended)  NOTE: HPE ML350 Gen10 Redundant Fan Cage Kit with 4 Fan Modules (Recommended) (874572-B21) is required to support this card.	764284-B21 825110-B21 825111-B21
HPE 100Gb 1-port OP101 QSFP28 x16 PCle Gen3 with Intel Omni-Path Architecture Adapter (Recommended)  NOTE: HPE ML350 Gen10 Redundant Fan Cage Kit with 4 Fan Modules (Recommended) (874572-B21) is required to support this card.  HPE InfiniBand - Extended  HPE InfiniBand FDR/Ethernet 10Gb/40Gb 2-port 544+QSFP Adapter (Extended)  HPE InfiniBand EDR/Ethernet 100Gb 1-port 840QSFP28 Adapter (Extended)  NOTE: HPE ML350 Gen10 Redundant Fan Cage Kit with 4 Fan Modules (Recommended) (874572-B21) is required to support this card.  HPE InfiniBand EDR/Ethernet 100Gb 2-port 840QSFP28 Adapter (Extended)  NOTE: HPE ML350 Gen10 Redundant Fan Cage Kit with 4 Fan Modules (Recommended) (874572-B21) is required to support this card.  HPE Ethernet 100Gb 1-port 842QSFP28 Adapter (Extended)  NOTE: HPE ML350 Gen10 Redundant Fan Cage Kit with 4 Fan Modules (Recommended) (874572-B21) is required to support this card.	764284-B21 825110-B21 825111-B21 874253-B21
HPE 100Gb 1-port OP101 QSFP28 x16 PCle Gen3 with Intel Omni-Path Architecture Adapter (Recommended)  NOTE: HPE ML350 Gen10 Redundant Fan Cage Kit with 4 Fan Modules (Recommended) (874572-B21) is required to support this card.  HPE InfiniBand - Extended  HPE InfiniBand FDR/Ethernet 10Gb/40Gb 2-port 544+QSFP Adapter (Extended)  HPE InfiniBand EDR/Ethernet 100Gb 1-port 840QSFP28 Adapter (Extended)  NOTE: HPE ML350 Gen10 Redundant Fan Cage Kit with 4 Fan Modules (Recommended) (874572-B21) is required to support this card.  HPE InfiniBand EDR/Ethernet 100Gb 2-port 840QSFP28 Adapter (Extended)  NOTE: HPE ML350 Gen10 Redundant Fan Cage Kit with 4 Fan Modules (Recommended) (874572-B21) is required to support this card.  HPE Ethernet 100Gb 1-port 842QSFP28 Adapter (Extended)  NOTE: HPE ML350 Gen10 Redundant Fan Cage Kit with 4 Fan Modules (Recommended) (874572-B21) is required to support this card.  HPE Power Supplies - Recommended  HPE 500W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit (Recommended)	764284-B21 825110-B21 825111-B21 874253-B21
HPE 100Gb 1-port OP101 QSFP28 x16 PCle Gen3 with Intel Omni-Path Architecture Adapter (Recommended)  NOTE: HPE ML350 Gen10 Redundant Fan Cage Kit with 4 Fan Modules (Recommended) (874572-B21) is required to support this card.  HPE InfiniBand - Extended  HPE InfiniBand FDR/Ethernet 10Gb/40Gb 2-port 544+QSFP Adapter (Extended)  HPE InfiniBand EDR/Ethernet 100Gb 1-port 840QSFP28 Adapter (Extended)  NOTE: HPE ML350 Gen10 Redundant Fan Cage Kit with 4 Fan Modules (Recommended) (874572-B21) is required to support this card.  HPE InfiniBand EDR/Ethernet 100Gb 2-port 840QSFP28 Adapter (Extended)  NOTE: HPE ML350 Gen10 Redundant Fan Cage Kit with 4 Fan Modules (Recommended) (874572-B21) is required to support this card.  HPE Ethernet 100Gb 1-port 842QSFP28 Adapter (Extended)  NOTE: HPE ML350 Gen10 Redundant Fan Cage Kit with 4 Fan Modules (Recommended) (874572-B21) is required to support this card.  HPE Power Supplies - Recommended  HPE 500W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit (Recommended)  NOTE: Flex Slot Platinum power supplies support power efficiency of up to 94% and include a standard	764284-B21 825110-B21 825111-B21 874253-B21
HPE 100Gb 1-port OP101 QSFP28 x16 PCle Gen3 with Intel Omni-Path Architecture Adapter (Recommended)  NOTE: HPE ML350 Gen10 Redundant Fan Cage Kit with 4 Fan Modules (Recommended) (874572-B21) is required to support this card.  HPE InfiniBand - Extended  HPE InfiniBand FDR/Ethernet 10Gb/40Gb 2-port 544+QSFP Adapter (Extended)  HPE InfiniBand EDR/Ethernet 100Gb 1-port 840QSFP28 Adapter (Extended)  NOTE: HPE ML350 Gen10 Redundant Fan Cage Kit with 4 Fan Modules (Recommended) (874572-B21) is required to support this card.  HPE InfiniBand EDR/Ethernet 100Gb 2-port 840QSFP28 Adapter (Extended)  NOTE: HPE ML350 Gen10 Redundant Fan Cage Kit with 4 Fan Modules (Recommended) (874572-B21) is required to support this card.  HPE Ethernet 100Gb 1-port 842QSFP28 Adapter (Extended)  NOTE: HPE ML350 Gen10 Redundant Fan Cage Kit with 4 Fan Modules (Recommended) (874572-B21) is required to support this card.  HPE Power Supplies - Recommended  HPE 500W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit (Recommended)  NOTE: Flex Slot Platinum power supplies support power efficiency of up to 94% and include a standard C-14 power inlet connector.	764284-B21 825110-B21 825111-B21 874253-B21 865408-B21
HPE 100Gb 1-port OP101 QSFP28 x16 PCle Gen3 with Intel Omni-Path Architecture Adapter (Recommended)  NOTE: HPE ML350 Gen10 Redundant Fan Cage Kit with 4 Fan Modules (Recommended) (874572-B21) is required to support this card.  HPE InfiniBand - Extended  HPE InfiniBand FDR/Ethernet 10Gb/40Gb 2-port 544+QSFP Adapter (Extended)  HPE InfiniBand EDR/Ethernet 100Gb 1-port 840QSFP28 Adapter (Extended)  NOTE: HPE ML350 Gen10 Redundant Fan Cage Kit with 4 Fan Modules (Recommended) (874572-B21) is required to support this card.  HPE InfiniBand EDR/Ethernet 100Gb 2-port 840QSFP28 Adapter (Extended)  NOTE: HPE ML350 Gen10 Redundant Fan Cage Kit with 4 Fan Modules (Recommended) (874572-B21) is required to support this card.  HPE Ethernet 100Gb 1-port 842QSFP28 Adapter (Extended)  NOTE: HPE ML350 Gen10 Redundant Fan Cage Kit with 4 Fan Modules (Recommended) (874572-B21) is required to support this card.  HPE Power Supplies - Recommended  HPE 500W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit (Recommended)  NOTE: Flex Slot Platinum power supplies support power efficiency of up to 94% and include a standard C-14 power inlet connector.  HPE 800W Flex Slot Titanium Hot Plug Low Halogen Power Supply Kit (Recommended)	764284-B21 825110-B21 825111-B21 874253-B21 865408-B21
HPE 100Gb 1-port OP101 QSFP28 x16 PCle Gen3 with Intel Omni-Path Architecture Adapter (Recommended)  NOTE: HPE ML350 Gen10 Redundant Fan Cage Kit with 4 Fan Modules (Recommended) (874572-B21) is required to support this card.  HPE InfiniBand - Extended  HPE InfiniBand FDR/Ethernet 10Gb/40Gb 2-port 544+QSFP Adapter (Extended)  HPE InfiniBand EDR/Ethernet 100Gb 1-port 840QSFP28 Adapter (Extended)  NOTE: HPE ML350 Gen10 Redundant Fan Cage Kit with 4 Fan Modules (Recommended) (874572-B21) is required to support this card.  HPE InfiniBand EDR/Ethernet 100Gb 2-port 840QSFP28 Adapter (Extended)  NOTE: HPE ML350 Gen10 Redundant Fan Cage Kit with 4 Fan Modules (Recommended) (874572-B21) is required to support this card.  HPE Ethernet 100Gb 1-port 842QSFP28 Adapter (Extended)  NOTE: HPE ML350 Gen10 Redundant Fan Cage Kit with 4 Fan Modules (Recommended) (874572-B21) is required to support this card.  HPE Power Supplies - Recommended  HPE 500W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit (Recommended)  NOTE: Flex Slot Platinum power supplies support power efficiency of up to 94% and include a standard C-14 power inlet connector.  HPE 800W Flex Slot Titanium Hot Plug Low Halogen Power Supply Kit (Recommended)  NOTE: Flex Slot Titanium power supplies support power efficiency of up to 96% and include a standard	764284-B21 825110-B21 825111-B21 874253-B21 865408-B21

## **Core Options**

**NOTE:** Flex Slot Platinum power supplies support power efficiency of up to 94% and include a standard C-14 power inlet connector.

HPE 800W Flex Slot -48VDC Hot Plug Low Halogen Power Supply Kit (Recommended) 865434-B21

NOTE: Flex Slot -48VDC power supplies support power efficiency of up to 94%.

HPE 1600W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit (Recommended) 830272-B21

NOTE: Available in 94% efficiency.

HPE 500W Low Halogen FIO Power Supply Kit (Recommended) 837074-B21

NOTE: Support power efficiency of up to 92%.

**HPE Power Supplies - Extended** 

HPE 800W Flex Slot Universal Hot Plug Low Halogen Power Supply Kit (Extended) 865428-B21

**NOTE:** Flex Slot universal power supplies support power efficiency of up to 94% and support both 277VAC/380VDC power inputs.

**HPE Power Supply Options - Recommended** 

HPE ML350 Gen10 Flex Slot Redundant Power Supply Cage Kit with Power Distribution Board (Recommended)

874571-B21

**NOTE:** Field upgrade only. Allowing field upgrade from the 500W standard PSU/non-RPS, non-hot-plug to support HPE Flex Slot RPS.

GPGPU Information											
Part	Card	TDP	Qty.	PCle	ML350 Gen10 Configuration						
Number			Support	Speed	8SFF	16SFF	16SFF+ 8NVMe	24SFF	4LFF	8LFF	12LFF
Q0V77A	HPE NVIDIA Quadro P2000 GPU Module	75W	4	Gen3	35C	35C	35C	35C	35C	35C	35C
Q0V78A	HPE NVIDIA Quadro P4000 GPU Module	105W	4	Gen3	35C	35C	35C	35C	35C	35C	35C
Q0V76A	HPE NVIDIA Quadro P6000 GPU Module	250W	4	Gen3	35C	35C	35C	35C	35C	35C	35C
Q0J62A	HPE NVIDIA Tesla M10 Quad GPU Module	225W	2	Gen3	35C	30C	30C	30C	35C	30C	30C
Q0V80A	HPE NVIDIA Tesla P40 24 GB Module	250W	4	Gen3	25C	20C	20C	20C	25C	20C	20C

**NOTE:** The 1600W RPS is recommended when the system is configured with high power GPU. The 800W RPS will work too (per GPU) – depending on configuration. Please do check the total power requirement of your selected configuration with the GPU(s) supported in this platform with the HPE Power Advisor Tool located

#### at http://www.hpe.com/info/hppoweradvisor.

**NOTE:** The ML350 Gen10 Redundant Fan Cage Kit (874572-B21) is required for ALL GPU installations. (Note, the redundant fan kit ships as standard with the two 2P Performance models and the Rack CTO).

**NOTE:** Mixing of GPUs is not supported.

**NOTE:** These GPUs are not recommended for use in office environment especially under stress mode when system fans are running at full speed.

**NOTE:** HPE ML350 Gen10 GPU Ext Power Cable Kit (877628-B21) is required for GPU TDP larger than 75W – that is, this GPU external power cable kit is required except for HPE NVIDIA Quadro P2000 (Q0V77A).

#### **HPE Computation and Graphics Accelerators - Recommended**

HPE NVIDIA Quadro P2000 Graphics Accelerator (Recommended)

Q0V77A

NOTE: HPE ML350 Gen10 Redundant Fan Cage Kit (Recommended) (874572-B21) is required.

HPE NVIDIA Quadro P4000 Graphics Accelerator (Recommended)

Q0V78A

NOTE: HPE ML350 Gen10 GPU External Power Cable Kit (Recommended) (877628-B21) is required.

NOTE: HPE ML350 Gen10 Redundant Fan Cage Kit (874572-B21) is required.

HPE NVIDIA Quadro P6000 Graphics Accelerator (Recommended)

Q0V76A

## **Core Options**

NOTE: HPE ML350 Gen10 GPU External Power Cable Kit (Recommended) (877628-B21) is required.

NOTE: HPE ML350 Gen10 Redundant Fan Cage Kit (874572-B21) is required.

NVIDIA Tesla M10 Quad GPU Module (Recommended)

Q0J62A

NOTE: HPE ML350 Gen10 GPU External Power Cable Kit (Recommended) (877628-B21) is required.

NOTE: HPE ML350 Gen10 Redundant Fan Cage Kit (874572-B21) is required.

HPE NVIDIA Tesla P40 24GB Computational Accelerator (Recommended)

Q0V80A

NOTE: HPE ML350 Gen10 GPU External Power Cable Kit (Recommended) (877628-B21) is required.

NOTE: HPE ML350 Gen10 Redundant Fan Cage Kit (874572-B21) is required.

### **Graphics Cable Kits - Recommended**

HPE ML350 Gen10 GPU External Power Cable Kit (Recommended)

877628-B21

NOTE: This kit consists of two external power cables to feed power to GPU modules with TDP larger than 75W - that is, this GPU external power cable kit is required except for HPE NVIDIA Quadro P2000 (Recommended) (Q0V77A). The longer GPU power cable is intended to support GPU installation in PCIe slot 1 or 3 (slots coming from CPU 1); while the other shorter cable to support slot 5 or 7 (slots coming from CPU 2).

#### PCIe Accelerators - Extended

HPE 1.6TB PCIe x8 Lanes Mixed Use HHHL 3yr Wty Digitally Signed Firmware Card (Extended)

877825-B21

NOTE: HPE ML350 Gen10 Redundant Fan Cage Kit with 4 Fan Modules (Recommended) (874572-B21) is

HPE 3.2TB PCIe x8 Lanes Mixed Use HHHL 3yr Wty Digitally Signed Firmware Card (Extended)

877827-B21

NOTE: HPE ML350 Gen10 Redundant Fan Cage Kit with 4 Fan Modules (Recommended) (874572-B21) is required.

HPE 6.4TB PCIe x8 Lanes Mixed Use HHHL 3yr Wty Digitally Signed Firmware Card (Extended) NOTE: HPE ML350 Gen10 Redundant Fan Cage Kit with 4 Fan Modules (Recommended) (874572-B21) is required.

877829-B21

#### **HPE Cooling Options - Recommended**

HPE ML350 Gen10 Redundant Fan Cage Kit with 4 Fan Modules (Recommended)

874572-B21

**NOTE:** This kit is required for elevated Ambient temperature environments.

NOTE: Add add'l 4x hot-plug fans which are installed in the fan cage to get N+1 fan redundancy and advanced cooling.

NOTE: The performance 2P models and the Rack CTO Server model will already include this kit to include 6 fans total.

NOTE: The ML350 Gen10 Redundant Fan Kit (874572-B21) is required for one of the following configurations or situations:

2P configuration.

When the unit is configured to use in Rack mode.

When front storage is fully populated with (3) 4LFF or (3) 8SFF drive cages or (2) LFF or SFF drive cages along with (2) media bays and (1) DVD.

When ML350 Gen10 is used in ASHRAE 3 or 4 environment.

When the unit is configured with higher RPM SAS HDDs (10K, 15K or higher).

When the unit is configured with NVMe Express Bay for NVMe SSD support.

When M.2 is selected.

The ML350 Gen10 Redundant Fan Cage Kit is also needed to support certain higher end PCIe expansion cards for example, GPU (Graphic Processing Unit), advanced PCIe accelerators, InfiniBand cards, higher-end network adapters and storage controllers P816i-a and P824i-pcontroller.

NOTE: Please refer to the User Guide for special configuration scenarios where the redundant fan option is required but does not provide redundancy function.

#### **Recommended Options**

Offering the best combination of performance, value and availability, Recommended Options have been selected by HPE experts to provide the right technology for a range of workloads and market segments. Fully integrated into the HPE management and security experience, Recommended Options provide the best fit with timely availability.

#### **Extended Options**

Extended Options provide an extended catalog of products tailored for customers in specific markets or with specific workloads, requiring the utmost in performance or value. Fully integrated into the HPE management and security experience, Extended Options represent great value and performance but typically have a longer lead-time.

**NOTE:** 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 Electronic License with 1yr Support on iLO Licensed Features	E6U59ABE
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 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 Converged Infrastructure Management Software**

HPE OneView Physical Media Kit LTU	E5Y37A
HPE OneView including 3yr 24x7 Support Physical 1-server LTU	E5Y34A
HPE OneView including 3yr 24x7 Support Flexible Quantity E-LTU	E5Y35AAE
HPE OneView w/o iLO including 3vr 24x7 Support Track 1-server LTU	P8B25A

NOTE: Licenses ship without media. The HPE OneView Media Kit can be ordered separately, or can

be downloaded.

#### **HPE Security**

HPE Trusted Platform Module 2.0 Kit

864279-B21

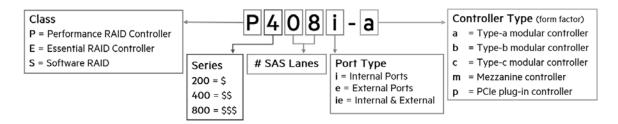
**NOTE:** HPE Trusted Platform Module 2.0 option works with Gen10 servers with UEFI Mode not Legacy Mode. It is not compatible with HPE ProLiant Gen8 servers or earlier generation variants.

**NOTE:** HPE server systems can have a TPM module (of any type) installed only once. It cannot be replaced with any other TPM module.

NOTE: There is a FIO setting to allow this TPM module to operate in a TPM 1.2 mode (872108-B21).

#### **HPE Smart Array Controllers**

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



#### Performance RAID Controllers - Recommended

**NOTE:** All performance RAID controllers are supported by the HPE Smart Storage Battery (Recommended) (P01367-B21), which supports multiple devices and is sold separately.

HPE Smart Array P816i-a SR Gen10 (16 Internal Lanes/4GB Cache/SmartCache) 12G SAS Modular Controller (Recommended)

804338-B21

NOTE: Does not occupy a PCIe expansion slot and includes SmartCache license.

NOTE: HPE ML350 Gen10 SFF AROC Cable Kit (877575-B21) for SFF chassis configuration or HPE

ML350 Gen10 LFF AROC Cable Kit (874573-B21) for LFF chassis configuration is required.

NOTE: HPE ML350 Gen10 Redundant Fan Cage Kit (874572-B21) is required for P816i-a.

NOTE: For information on the HPE Smart Array P816i-a SR Gen10 Controller please refer to

their QuickSpecs.

HPE Smart Array P408i-a SR Gen10 (8 Internal Lanes/2GB Cache) 12G SAS Modular Controller (Recommended)

804331-B21

**NOTE:** Does not occupy a PCle expansion slot.

NOTE: HPE ML350 Gen10 SFF AROC Cable Kit (877575-B21) for SFF chassis configuration or HPE

ML350 Gen10 LFF AROC Cable Kit (874573-B21) for LFF chassis configuration is required.

NOTE: For information on the HPE Smart Array P408i-a SR Gen10 Controller please refer to

their QuickSpecs.

HPE Smart Array P408i-p SR Gen10 (8 Internal Lanes/2GB Cache) 12G SAS PCIe Plug-in Controller (Recommended)

830824-B21

**NOTE:** HPE ML350 Gen10 Smart Array/HBA Mini-SAS Cable Kit for SFF Configuration (874575-B21) for SFF chassis configuration or HPE ML350 Gen10 LFF SA/HBA Cable Kit (874574-B21) for LFF chassis configuration is required.

NOTE: For information on the HPE Smart Array P408i-p SR Gen10 Controller please refer to

their **QuickSpecs**.

HPE Smart Array P408e-p SR Gen10 (8 External Lanes/4GB Cache) 12G SAS PCIe Plug-in Controller (Recommended)

804405-B21

NOTE: For information on the HPE Smart Array P408e-p SR Gen10 Controller please refer to

their QuickSpecs.

HPE Smart Array P824i-p MR Gen10 (24 Internal Lanes/4GB Cache/CacheCade) 12G SAS PCIe Controller (Recommended)

870658-B21

**NOTE:** HPE D38X/580/560/ML350 24P Cable Kit (Extended) (P00614-B21) is required when this controller is selected.

NOTE: HPE ML350 Gen10 Redundant Fan Cage Kit (874572-B21) is required for P824i-p.

**NOTE:** This controller is supported in ML350 Gen10 SFF configurations only supporting up to 24 SAS/SATA drives.

NOTE: For information on the HPE Smart Array P824i-p MR Gen10 Controller, please refer to

their QuickSpecs.

Essential RAID Controllers - Recommended	
HPE Smart Array E208i-p SR Gen10 (8 Internal Lanes/No Cache) 12G SAS PCIe Plug-in Controller (Recommended)	804394-B21
<b>NOTE:</b> HPE ML350 Gen10 Smart Array/HBA Mini-SAS Cable Kit for SFF Configuration (874575-B21) for SFF chassis configuration or HPE ML350 Gen10 LFF SA/HBA Cable Kit (874574-B21) for LFF chassis configuration is required.	
NOTE: For information on the HPE Smart Array E208i-p SR Gen10 Controller please refer to their QuickSpecs.	
HPE Smart Array E208e-p SR Gen10 (8 External Lanes/No Cache) 12G SAS PCIe Plug-in Controller (Recommended)	804398-B21
<b>NOTE:</b> For information on the HPE Smart Array E208e-p SR Gen10 Controller please refer to their <b>QuickSpecs</b> .	
Essential RAID Controllers - Extended	
HPE Smart Array E208i-a SR Gen10 (8 Internal Lanes/No Cache) 12G SAS Modular Controller (Extended)	804326-B21
NOTE: Does not occupy a PCle expansion slot.  NOTE: HPE ML350 Gen10 SFF AROC Cable Kit (877575-B21) for SFF chassis configuration or HPE ML350 Gen10 LFF AROC Cable Kit (874573-B21) for LFF chassis configuration is required.  NOTE: For information on the HPE Smart Array E208i-a SR Gen10 Controller please refer to their QuickSpecs.	
HPE Cable Options and SAS Expander Kit - Recommended	
HPE ML350 Gen10 Embedded SATA Cable Kit for LFF Configuration (Recommended)	877578-B21
<b>NOTE:</b> This cable kit is used to support the embedded SATA controller with S100i SW RAID. One cable kit per HDD cage.	
HPE ML350 Gen10 Embedded SATA Cable Kit for SFF Configuration (Recommended)	877579-B21
<b>NOTE:</b> This cable kit is used to support the embedded SATA controller with S100i SW RAID. One cable kit per HDD cage.	
HPE ML350 Gen10 AROC Mini-SAS Cable Kit for LFF Configuration (Recommended)	874573-B21
HPE ML350 Gen10 AROC Mini-SAS Cable Kit for SFF Configuration (Recommended)	877575-B21
HPE ML350 Gen10 Smart Array/HBA Mini-SAS Cable Kit for LFF Configuration (Recommended)	874574-B21
HPE ML350 Gen10 Smart Array/HBA Mini-SAS Cable Kit for SFF Configuration (Recommended)	874575-B21
HPE DL38X/560/580/ML350 Gen10 P824i-p Cable Kit (Recommended)	P00614-B21
NOTE: This cable kit must be selected when P824i-p card is ordered. One P824i-p requires one cable kit.	
<b>NOTE:</b> For details on cabling options and cable routing instructions, refer to <b>HPE ML350 Gen10 User Guide</b> .	
HPE ML350 Gen10 12Gb SAS Expander Card Kit with Cables (Recommended)	874576-B21
<b>NOTE:</b> Add this SAS Expander option kit to upgrade your ML350 Gen10 SFF system pre-configured with either P408i-a or E208i-a (or any P or E-series card), to support 24 SFF drives.	
Optional Software	
HPE Smart Array SR Secure Encryption (Data at Rest Encryption/per Server Entitlement) E-LTU	Q2F26AAE
HPE Smart Array SR SmartCache (Single Key/Single Server) LTU	D7S26A
HPE Smart Array SR SmartCache (Single Key/Multiple Servers) LTU	D7S27A
HPE Smart Array SR SmartCache (Single Key/Multiple Servers) E-LTU	D7S27AAE
<b>NOTE:</b> SmartCache is offered on HPE Smart Array performance RAID controllers and comes standard (no licensing is required) if the HPE Smart Array P816i-a SR Gen10 Controller is installed in the server.	

#### **Optional Upgrades - Recommended**

HPE 96W Smart Storage Battery (up to 20 Devices) with 260mm Cable Kit (Recommended)

P01367-B21

**BB873A** 

BB874A

**NOTE:** Provides backup power for multiple HPE Smart Array controllers or other devices. Is required with performance RAID controllers. This product replaces 875242-B21.

#### **HPE Tape Backup**

**NOTE:** Internal half-height (5.25") tape devices are supported in ML350 Gen10 and require the HPE ML350 Gen10 Media Drive Support Kit (874570-B21).

**NOTE:** In the case when LTO Internal Tape or Internal Disk Based Back up (RDX) is selected along with the Fan Redundant Kit, Fan#1 will need to be removed and the Fan Blank provided in this option kit will need to be installed in Fan#1 location. This configuration will run without fan redundancy. Refer to **ML350 Gen10 User Guide** for more detail.

**NOTE:** Installation of the internal LTO tape drive is limited in media bay 1.

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

see: <a href="https://www.hpe.com/us/en/storage/storeever-tape-storage.html">https://www.hpe.com/us/en/storage/storeever-tape-storage.html</a>. For hardware and software compatibility of Hewlett Packard Enterprise tape backup

products <a href="http://www.hpe.com/storage/BURAcompatibility">http://www.hpe.com/storage/BURAcompatibility</a>.

HPE StoreEver LTO-7 Ultrium 15000 External Tape Drive

HPE LTO-7 Ultrium 15000 Internal Tape Drive

#### **HPE Tape Drives**

The Editorial Prof. Chinam Editor External Paper Silve	2207
HPE LTO-6 Ultrium 6250 Internal Tape Drive	EH969A
HPE StoreEver LTO-6 Ultrium 6250 External Tape Drive	EH970A
HPE StoreEver LTO-5 Ultrium 3000 SAS Internal Tape Drive	EH957B
HPE StoreEver LTO-5 Ultrium 3000 SAS External Tape Drive	EH958B
HPE Tape Drives	
HPE StoreEver LTO-8 Ultrium 30750 Internal Tape Drive	BC022A
HPE StoreEver LTO-8 Ultrium 30750 External Tape Drive	BC023A
HPE Tape Backup Products	
HPE StoreEver 1/8 G2 LTO-8 Ultrium 30750 FC Tape Autoloader	Q6Q65A
HPE StoreEver 1/8 G2 LTO-8 Ultrium 30750 SAS Tape Autoloader	Q6Q66A
HPE StoreEver MSL LTO-8 Ultrium 30750 FC Drive Upgrade Kit	Q6Q67A
HPE StoreEver MSL LTO-8 Ultrium 30750 SAS Drive Upgrade Kit	Q6Q68A
HPE StoreEver MSL3040 Scalable Library Base Module	Q6Q62A
HPE StoreEver MSL3040 Scalable Library Expansion Module	Q6Q63A
HPE StoreEver MSL LTO-7 Ultrium 15000 FC Drive Upgrade Kit	N7P36A
HPE StoreEver MSL LTO-7 Ultrium 15000 SAS Drive Upgrade Kit	N7P37A
HPE StoreEver MSL LTO-6 Ultrium 6250 SAS Drive Upgrade Kit	C0H27A
HPE StoreEver MSL LTO-6 Ultrium 6250 Fibre Channel Drive Upgrade Kit	C0H28A
HPE StoreEver MSL LTO-5 Ultrium 3000 SAS Drive Upgrade Kit	BL540B
HPE StoreEver MSL2024 0-drive Tape Library	AK379A
HPE StoreEver MSL4048 0-drive Tape Library	AK381A
HPE StoreEver MSL6480 Scalable Base Module	QU625A
HPE StoreEver 1/8 G2 LTO-7 Ultrium 15000 FC Tape Autoloader	N7P34A
HPE StoreEver 1/8 G2 LTO-7 Ultrium 15000 SAS Tape Autoloader	N7P35A
HPE StoreEver 1/8 G2 LTO-6 Ultrium 6250 SAS Tape Autoloader	COH18A
HPE StoreEver 1/8 G2 LTO-6 Ultrium 6250 Fibre Channel Tape Autoloader	COH19A
HPE StoreEver 1/8 G2 LTO-5 Ultrium 3000 SAS Tape Autoloader	BL536B

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
HPE Storage Options	
Emulex Fibre Channel HBAs - Recommended	
HPE StoreFabric SN1200E 16Gb Single Port Fibre Channel Host Bus Adapter (Recommended)	Q0L13A
HPE StoreFabric SN1200E 16Gb Dual Port Fibre Channel Host Bus Adapter (Recommended)	Q0L14A
HPE StoreFabric SN1600E 32Gb Single Port Fibre Channel Host Bus Adapter (Recommended)	Q0L11A
HPE StoreFabric SN1600E 32Gb Dual Port Fibre Channel Host Bus Adapter (Recommended)	Q0L12A
QLogic Fibre Channel HBAs - Recommended	
HPE StoreFabric SN1100Q 16Gb Single Port Fibre Channel Host Bus Adapter (Recommended)	P9D93A
HPE StoreFabric SN1100Q 16Gb Dual Port Fibre Channel Host Bus Adapter (Recommended)	P9D94A
HPE StoreFabric SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter (Recommended)	P9M75A
HPE StoreFabric SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter (Recommended)	P9M76A
Converged Network Adapters - Recommended	
HPE StoreFabric CN1100R Dual Port Converged Network Adapter (Recommended)	QW990A
HPE StoreFabric CN1100R 10GBASE-T Dual Port Converged Network Adapter (Recommended)	N3U52A
HPE StoreFabric CN1200E 10GBASE-T Dual Port Converged Network Adapter (Recommended)	N3U51A
HPE StoreFabric CN1200E 10Gb Converged Network Adapter (Recommended)	E7Y06A
NOTE: For the complete listing of Fibre Channel Host Bus Adapters for Windows 2000, Windows Server 200	)3 and Linux,
please see: https://www.hpe.com/us/en/product-catalog/storage/storage-adapters.hits-12.html	

### **HPE Racks**

**NOTE:** Please see the **HPE Advanced Series Racks QuickSpecs** for information on additional racks options and rack specifications.

**NOTE:** Please see the **HPE Enterprise Series Racks QuickSpecs** for information on additional racks options and rack specifications.

**NOTE:** Please see the <u>HPE Standard Series Racks QuickSpecs</u> for information on additional racks options and rack specifications.

#### **HPE Power Distribution Units (PDUs)**

**NOTE:** Please see the **HPE Basic Power Distribution Units (PDU) QuickSpecs** for information on these products and their specifications.

**NOTE:** Please see the **HPE Metered Power Distribution Units (PDU) QuickSpecs** for information on these products and their specifications.

**NOTE:** Please see the <u>HPE Intelligent Power Distribution Unit (PDU) QuickSpecs</u> for information on these products and their specifications.

**NOTE:** Please see the **HPE Metered and Switched Power Distribution Units (PDU) QuickSpecs** for information on these products and their specifications.

## **HPE Uninterruptible Power Systems (UPS)**

NOTE: To learn more, please visit the HPE Uninterruptible Power Systems (UPS) web page.

**NOTE:** Please see the <u>HPE DirectFlow Three Phase Uninterruptible Power System QuickSpecs</u> for information on these products and their specifications.

**NOTE:** Please see the **HPE Line Interactive Single Phase UPS QuickSpecs** for information on these products and their specifications.

#### **HPE Rack Options**

**NOTE:** Please see the **HPE KVM Switches web page** for information on these products and their specifications.

#### Rail Kits - Recommended

**NOTE:** Ball bearing and Easy Install rail kits contain telescoping rails which allow for in-rack serviceability. **NOTE:** To assist in the installation of the server into the rack an optional installation tool is available by contacting your local services representative (695539-001).

**CAUTION:** Hewlett Packard Enterprise recommends that a minimum of two people are required for all Rack Server installations. Please refer to your installation instructions for proper tools and number of people to use for any installation.

HPE ML Gen10 Tower to Rack Conversion Kit with Sliding Rail Rack Shelf and Cable Management Arm (Recommended)

874578-B21

**NOTE:** Easy install rack rail tray which takes up 1U height in a standard rack facility. This kit is supported in both ML350 and ML110 Gen10 for tower to rack conversion. This kit includes CMA and is shipped as standard in the 2P Performance Rack SKU and SFF Rack CTO.

#### **HPE USB and SD Options**

#### HPE Enterprise Mainstream Flash Media Kits for Memory Cards - Recommended

HPE 32GB microSD Flash Memory Card (Recommended)	700139-B21
HPE 8GB microSD Flash Memory Card (Recommended)	726116-B21
HPE 8GB microSD Flash USB Drive (Recommended)	737953-B21
HPE 8GB Dual microSD Flash USB Drive (Recommended)	741279-B21

#### **HPE Support Services**

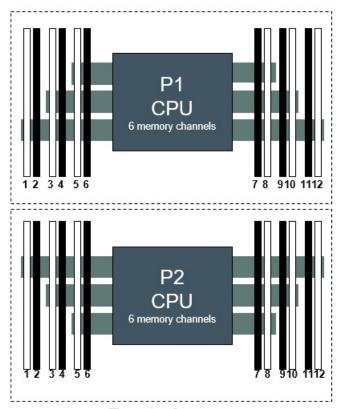
HPE 3 Year Proactive Care 24x7 ML350 Gen10 Service	H9GF8E
HPE 3 Year Proactive Care 24x7 with DMR ML350 Gen10 Service	H9GF9E
HPE 3 Year Proactive Care 24x7 with CDMR ML350 Gen10 Service	H9GG0E
HPE 3 Year Proactive Care Call-To-Repair ML350 Gen10 Service	H9GG7E
HPE 3 Year Proactive Care Call-To-Repair 24x7 with DMR ML350 Gen10 Service	H9GG8E
HPE 3 Year Proactive Care Call-To-Repair with CDMR ML350 Gen10 Service	H9GG9E
HPE Install ProLiant ML350(p) Service	U4522E
HPE Installation and Startup ML350(p) Service	U4523E

NOTE: For a full listing of support services available for this server, please visit https://ssc.hpe.com/

## **Memory Population guidelines**

# HPE ML350 Gen10 server

2 slots per channel



Front of server

HPE ProLiant Gen10 12 slot per CPU DIMM Population Order												
1 DIMM								8				
2 DIMMs								8		10		
3 DIMMs								8		10		12
4 DIMMs			3		5			8		10		
5 DIMMs *			3		5			8		10		12
6 DIMMs	1		3		5			8		10		12
7 DIMMs *	1		3		5		7	8		10		12
8 DIMMs			3	4	5	6	7	8	9	10		
9 DIMMs *	1		3		5		7	8	9	10	11	12
10 DIMMs *	1		3	4	5	6	7	8	9	10		12
11 DIMMs *	1		3	4	5	6	7	8	9	10	11	12
12 DIMMs	1	2	3	4	5	6	7	8	9	10	11	12
* (	* Unbalanced, not recommended											

#### **General Memory Population Rules and Guidelines**:

- . Install DIMMs only if the corresponding processor is installed.
- . If only one processor is installed in a two-processor system, only half of the DIMM slots are available.
- . To maximize performance, it is recommended to balance the total memory capacity between all installed processors.
- . When two processors are installed, balance the DIMMs across the two processors.
- . White DIMM slots denote the first slot to be populated in a channel.
- . Mixing of DIMM types (UDIMM, RDIMM, and LRDIMM) is not supported.
- . 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.
- . 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 DDR4 SmartMemory is required. For additional information, please see the **HPE DDR4 SmartMemory QuickSpecs**.

DIMM Type	Register DIMM (RDIMM)							
HPE SKU P/N	815097-B21	815098-B21	835955-B21	815100-B21				
SKU Description	HPE 8GB (1x8GB) Single Rank x8 DDR4- 2666 CAS-19-19-19 Registered Smart Memory Kit (Recommended)	HPE 16GB (1x16GB) Single Rank x4 DDR4- 2666 CAS-19-19-19 Registered Smart Memory Kit (Recommended)	HPE 16GB (1x16GB) Dual Rank x8 DDR4- 2666 CAS-19-19-19 Registered Smart Memory Kit (Recommended)	HPE 32GB (1x32GB) Dual Rank x4 DDR4- 2666 CAS-19-19- 19 Registered Smart Memory Kit (Recommended)				
DIMM Rank ->	Single Rank (1R)	Single Rank (1R)	Dual Rank (2R)	Dual Rank (2R)				
DIMM Capacity ->	8GB	16GB	16GB	32GB				
Voltage	1.2V	1.2V	1.2V	1.2V				
DRAM depth [bit]	1G	2G	1G	2G				
DRAM Width [bit]	x8	x4	x8	х4				
DRAM Density	8Gb	8Gb	8Gb	8Gb				
CAS Latency	19-19-19	19-19-19	19-19-19	19-19-19				
DIMM Native Speed (MT/s)	2666 MT/s	2666 MT/s	2666 MT/s	2666 MT/s				
Intel Xeon®Platinum 81xx/6	1xx Processors Officially	y Supported Memory Spe	eed (MT/s)					
1 DIMM Per Channel	2666 MT/s	2666 MT/s	2666 MT/s	2666 MT/s				
2 DIMM Per Channel	2666 MT/s	2666 MT/s	2666 MT/s	2666 MT/s				
Intel Xeon®Platinum 41xx/5	1xx Processors Officially	y Supported Memory Spe	eed (MT/s)					
1 DIMM Per Channel	2400 MT/s	2400 MT/s	2400 MT/s	2400 MT/s				
2 DIMM Per Channel	2400 MT/s	2400 MT/s	2400 MT/s	2400 MT/s				
Intel Xeon®Platinum 31xx P	rocessors Officially Supp	orted Memory Speed (M	T/s)					
1 DIMM Per Channel	2133 MT/s	2133 MT/s	2133 MT/s	2133 MT/s				
2 DIMM Per Channel	2133 MT/s	2133 MT/s	2133 MT/s	2133 MT/s				
HPE Server Memory Speed	(MT/s): Intel Xeon®Platir	num 81xx/61xx Processo	ors *					
1 DIMM Per Channel	2666 MT/s	2666 MT/s	2666 MT/s	2666 MT/s				
2 DIMM Per Channel	2666 MT/s	2666 MT/s	2666 MT/s	2666 MT/s				
HPE Server Memory Speed	(MT/s): Intel Xeon®Platir	num 41xx/51xx Processo	rs *	1				
1 DIMM Per Channel	2400 MT/s	2400 MT/s	2400 MT/s	2400 MT/s				
2 DIMM Per Channel	2400 MT/s	2400 MT/s	2400 MT/s	2400 MT/s				

HPE Server Memory Speed (MT/s): Intel Xeon®Platinum 31xx Processors *									
1 DIMM Per Channel	2133 MT/s	2133 MT/s	2133 MT/s	2133 MT/s					
2 DIMM Per Channel	2133 MT/s	2133 MT/s	2133 MT/s	2133 MT/s					

**NOTE:** 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: <a href="https://www.hpe.com/docs/memory-speed-table">https://www.hpe.com/docs/memory-speed-table</a>.

DIMM Type	Load Reduced (LRDIMM)			
HPE SKU P/N	815101-B21	815102-B21		
SKU Description	HPE 64GB (1x64GB) Quad Rank x4 DDR4-2666 CAS-19-19-19 Load Reduced Smart Memory Kit (Recommended)	HPE 128GB (1x128GB) Octal Rank x4 DDR4-2666 CAS-22-19-19 3DS Load Reduced Memory Kit (Extended)		
DIMM Rank ->	Quad Rank (4R)	Octal Rank (8R)		
DIMM Capacity ->	64GB	128GB		
Voltage	1.2V	1.2V		
DRAM depth [bit]	2G	2G		
DRAM Width [bit]	x4	×4		
DRAM Density	8Gb	8Gb		
CAS Latency	19-19-19	22-19-19		
DIMM Native Speed (MT/s)	2666	2666		
Intel Xeon® Platinum 81xx/61xx Process	ors Officially Supported Memory Speed (N	MT/s)		
1 DIMM Per Channel	2666 MT/s	2666 MT/s		
2 DIMM Per Channel	2666 MT/s	2666 MT/s		
Intel Xeon® Gold/Silver 41xx/51xx Proce	ssors Officially Supported Memory Speed	(MT/s)		
1 DIMM Per Channel	2400 MT/s	2400 MT/s		
2 DIMM Per Channel	2400 MT/s	2400 MT/s		
Intel Xeon® Bronze 31xx Processors Office	cially Supported Memory Speed (MT/s)			
1 DIMM Per Channel	2133 MT/s	2133 MT/s		
2 DIMM Per Channel	2133 MT/s	2133 MT/s		
HPE Server Memory Speed (MT/s): Intel	Xeon® Platinum 81xx/61xx Processors *			
1 DIMM Per Channel	2666 MT/s	2666 MT/s		
2 DIMM Per Channel	2666 MT/s	2666 MT/s		
HPE Server Memory Speed (MT/s): Intel	Xeon® Gold/Silver41xx/51xx Processors *			
1 DIMM Per Channel	2400 MT/s	2400 MT/s		
2 DIMM Per Channel	2400 MT/s	2400 MT/s		
HPE Server Memory Speed (MT/s): Intel	Xeon® Bronze 31xx Processors *			
1 DIMM Per Channel	2133 MT/s	2133 MT/s		
2 DIMM Per Channel	2133 MT/s	2133 MT/s		

**NOTE:** 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: <a href="https://www.hpe.com/docs/memory-speed-table">https://www.hpe.com/docs/memory-speed-table</a>.

### Standard and Maximum Memory Capacity (Pre-configured Models)

Pre Configured Models	Standard Memory	Maximum Memory Plus Optional Memory	Standard Memory Replaced with Optional Memory
3104	3104 8GB (1x8 GB RDIMM SR)		3072 GB (24x 128 GB)
3106 16 GB (1x16 GB RDIMM SR)		384 GB (24x 16 GB)	3072 GB (24x 128 GB)
4110 16 GB (1x16 GB RDIMM SR)		384 GB (24x 16 GB)	3072 GB (24x 128 GB)

	4114	32 GB (2x16 GB RDIMM SR)	384 GB (24x 16 GB)	3072 GB (24x 128 GB)	
5118 32 GB (2x16 GB RDIMM SR)		384 GB (24x 16 GB)	3072 GB (24x 128 GB)		

**NOTE:** The 13<sup>th</sup> – 24<sup>th</sup> DIMM support requires installation of the second processor.

#### DDR4 memory options part number decoder

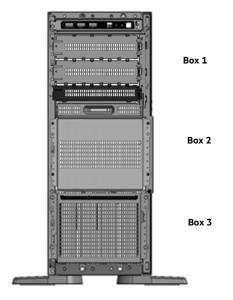
**NOTE:** Capacity references are rounded to the common gigabyte (GB) values.

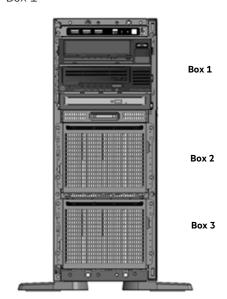
- 8GB = 8,192 MB
- 16GB = 16,384 MB
- 32GB = 32,768 MB
- 64GB = 65,536 MB
- 128 GB = 131,072 MB

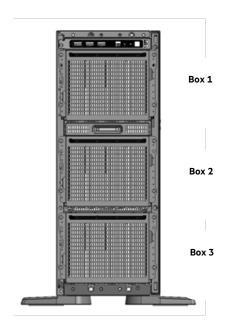
For more information on memory, please see the Memory Quickspecs: **HPE DDR4 SmartMemory**.

4 LFF non-hot-plug drive model: Tower – shown with the tower feet. 1 x 4 LFF SAS/SATA non-hot-pluggble HDD/SSD Cage Kit in Box 3. HDD Cage Blank in Box 2. Media Bay Blanks (2) and DVD blank (1) in Box 1. 8 LFF non-hot-plug drive + media bay (2) and DVD (1) model:
Tower – shown with the tower feet.
1 – 2 4 LFF SAS/SATA non-hot-pluggble HDD/SSD Cage Kit
HH Media Bay up to 2 and/or 1 DVD in Box 1

12 LFF non-hot-plug drive model: Tower – shown with the tower feet. 1 – 3 4 LFF SAS/SATA non-hotpluggble HDD/SSD Cage Kit (s)



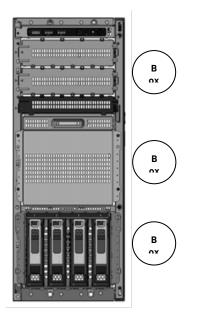


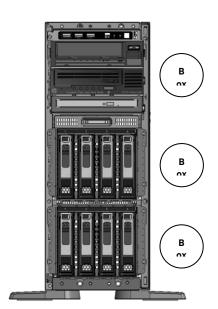


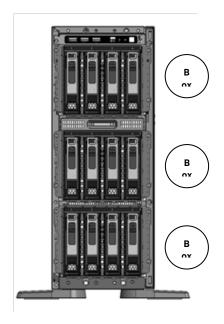
4 LFF hot-plug drive model:
Tower – shown without the tower feet.
1 x 4 LFF SAS/SATA hot-pluggble
HDD/SSD Cage Kit in Box 3.
HDD Cage Blank in Box 2.
Media Bay Blanks (2) and DVD blank
(1) in Box 1.

8 LFF hot-plug drives + media bay (2) and DVD (1) model:

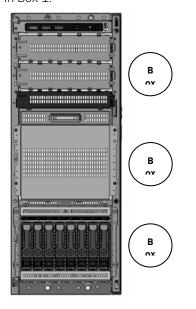
Tower – shown with the tower feet. 1 – 2 4 LFF SAS/SATA hot-pluggble HDD/SSD Cage Kit (2) HH Media Bay up to 2 and/or 1 DVD in Box 1. 12 LFF hot-plug drive model: Tower – shown with the tower feet. 1 – 3 4 LFF SAS/SATA hot-pluggble HDD/SSD Cage Kit (s)





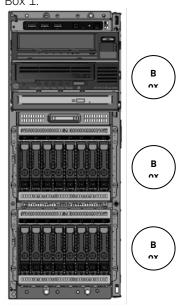


8 SFF hot-plug drive model: Tower – shown without the tower feet. 1 x 8 SFF SAS/SATA hot-pluggble HDD/SSD Cage Kit in Box 3. HDD Cage Blank in Box 2. Media Bay Blanks (2) and DVD blank (1) in Box 1.



16 SFF hot-plug drives + media bay (2) and DVD (1) model:

Tower – shown without the tower feet. 1-2-8 SFF SAS/SATA hot-pluggble HDD/SSD Cage Kit (2) HH Media Bay up to 2 and/or 1 DVD in Box 1.



24 SFF hot-plug drive model: Tower – shown without the tower feet. 1 – 3 8 SFF SAS/SATA hot-pluggble HDD/SSD Cage Kit (s).

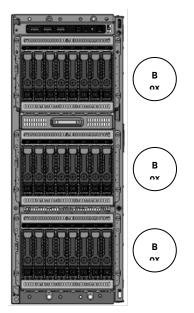
16 SFF hot-plug drive + 8 NVMe SSD model:

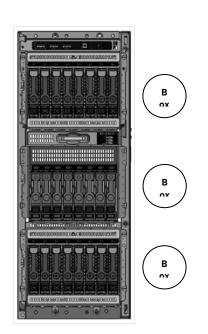
Tower – shown without the tower feet. 1 – 2 8 SFF SAS/SATA hot-pluggble HDD/SSD Cage Kit (s)

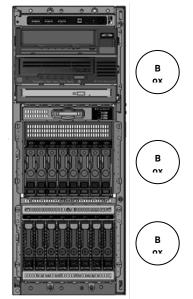
1x 8 SFF NVMe Express Bay Kit in Box 2 for optional NVMe PCle SSD, up to 8. 8 SFF hot-plug drive + 8 NVMe SSD + media bay (2) and DVD (1) model: Tower – shown without the tower feet. 1x 8 SFF SAS/SATA hot-pluggble HDD/SSD Cage Kit

1x 8 SFF NVMe Express Bay Kit in Box 2 for optional NVMe PCle SSD, up to 8 HH Media Bay up to 2 and/or 1 DVD in

Box 1.







## **Technical Specifications**

System	Unit
--------	------

46.25 (H) x 64.8 (D) x 17.4 (W) cm **Dimensions** 

18.2 (H) x 25.51 (D) x 6.85 (W) in

17.4 (H/4U) x 64.8 (D) x 44.5 (W) cm 6.85 (H) x 25.51 (D) x 17.52 (W) in

4.445 (H/1U) x 69.2 (D/without CMA. Depth with CMA: 83.5) x 45.2 (W) cm 1.75 (H/1U) x 27.23 (D/without CMA. Depth with CMA: 32.89) x 17.795 (W)

Weight (approximate)

21 kg 46.30 lb

42 kg 92.59 lb

Maximum

Rated Line Voltage

**Input Requirements** 

(per power supply)

**BTU Rating** 

**Power Supply Output** 

Rated Steady-State Power

(per power supply)

Maximum Peak Power

**System Inlet Temperature** 

Standard Operating Temperature

Tower

Rack - System only

Tower-to-Rack Conversion Kit (1U)

Minimum: 8 SFF or 4LFF chassis with 1x SFF or LFF HDD and HDD blanks, 1x HDD Drive Cage blank, 2x Media Bay blanks,

1x DVD bay blank, 1x processor including standard heatsink, 2 DIMMs, 1x power supply (plus blank), 1x Flexible Smart Array

(AROC), Cables for the above.

Maximum – fully loaded system: 24 SFF or 12 LFF hard drives,

4 DW GPUs (or 8 standard PCle expansion cards), 2x

processors including 2 performance heatsinks, 24 DIMMs, 2x power supplies, 1x Flexible Smart Array (AROC), Cables for the

above.

100 to 120 VAC

200 to 240 VAC

For 800W Power Supply: 3067 BTU/hr (at 100 VAC), 2958

BTU/hr (at 200 VAC), 2949 BTU/hr (at 240 VAC)

For 500W Power Supply: 1902 BTU/hr (at 100 VAC), 1840

BTU/hr (at 200 VAC), 1832 BTU/hr (at 240 VAC)

For 1600W Power Supply: 5918 BTU/hr (at 200 VAC), 5884

BTU/hr (at 240 VAC)

For 1600W Power Supply: 1600W (at 240 VAC), 1600W (at

240 VAC)

For 800W Power Supply: 800W (at 100 VAC), 800W (at 240

VAC), 800W (at 240 VAC)

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

VAC), 500W (at 240 VAC)

For 1600W Power Supply: 1600W (at 200 to 240 VAC),

1600W (at 240 VAC)

For 800W Power Supply: 800W (at 100 to 127 VAC), 800W

(at 200 to 240 1VAC), 800W (at 240 VAC)

For 500W Power Supply: 500W (at 100 to 127 VAC), 500W

(at 200 to 240 VAC), 500W (at 240 VAC)

10° to 35°C (50° to 95°F) at sea level with an altitude derating of 1.0°C per every 305 m (1.8°F per every 1000 ft) above sea level to a maximum of 3050 m (10,000 ft), no direct sustained

sunlight. Maximum rate of change is 20°C/hr (36°F/hr). The upper limit and rate of change may be limited by the type and

number of options installed.

System performance during standard operating support may be reduced if operating with a fan fault or above 30°C (86°F).

## **Technical Specifications**

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 900 m (2953 ft) to a maximum of 3050 m (10,000 ft). The approved hardware configurations for this system are listed at the URL:

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

For approved hardware configurations, the supported system inlet range is extended to be:  $40^{\circ}$  to  $45^{\circ}$ C ( $104^{\circ}$  to  $113^{\circ}$ F) at sea level with an altitude derating of  $1.0^{\circ}$ C per every 125 m ( $1.8^{\circ}$ 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.

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

20°C/hr (36°F/hr).

**Relative Humidity** Operating 8% to 90% - Relative humidity (Rh), 28°C maximum wet bulb

Non-operating

temperature, non-condensing.

remperature, from condensing

(non-condensing) Non-operating 5 to 95% relative humidity (Rh), 38.7°C (101.7°F) maximum

wet bulb temperature, non-condensing...

**Altitude** Operating 3050 m (10,000 ft). This value may be limited by the type and

number of options installed. Maximum allowable altitude

change rate is 457 m/min (1500 ft/min).

Non-operating 9144 m (30,000 ft). Maximum allowable altitude change rate is

457 m/min (1500 ft/min).

#### **Acoustic Noise**

Listed are the declared A-Weighted sound power levels ( $L_{WAd}$ ) and declared average bystander position A-Weighted sound pressure levels ( $L_{pAm}$ ) 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, for example, higher-end graphic processing units (GPU), NVMe SSD or NVMe M.2. Please have your HPE representative provide information from the HPE EMESC website for further technical details regarding the configurations listed below.

#### Idle

LWAd 4.0 B Entry

3.9 B Base

4.4 B Perf

LpAm 28 dBA Entry

27 dBA Base

31 dBA Perf

Operating

LWAd 4.2 B Entry

4.3 B Base 4.4 B Perf

LpAm 29 dBA Entry

30 dBA Base 32 dBA Perf

## **Technical Specifications**

NOTE: Acoustics levels presented here are generated by the test configuration only. Acoustics levels will vary depending on system configuration. Values are subject to change without notification and are for reference only.

NOTE: Product conformance to cited product specifications is based on sample (type) testing, evaluation, or assessment. This product or family of products is eligible to bear the appropriate compliance logos and statements.

NOTE: The Listed sound levels apply to standard shipping configurations. Additional options may result in increased sound levels, for example, higher-end graphic processing units (GPU), NVMe SSD or NVMe M.2.

# (EMC) - Regulatory **Information**

Emissions Classification 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

## **Environment-friendly** - End-of-life Management and Recycling

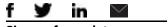
Hewlett Packard Enterprise offers **end-of-life product return, trade-in, and recycling programs**, in Products and Approach many geographic areas, for our products. Products returned to Hewlett Packard Enterprise will be recycled, recovered or disposed of in a responsible manner.

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

# **Summary of Changes**

Date	Version History	Action	Description of Change
06-Aug-2018	Version 8	Added	Added new NVIDIA Quadro P2000 GPU support. Added new SFF SATA SSD models. Added new 100Gb adapter. Added cabling requirement for S100i/embedded SATA controller config.
		Changed	Configuration Information – Factory Integrated Models, Core Options, Additional Options were revised.
04-Jun-2018	Version 7	Added	Added the new P824i-p info in the controller section. Added new RI SFF SSD in the SSD section. Added 4TB NVMs SSD and revise the max. NVMe capacity supported.
		Changed	Configuration Information – Factory Integrated Models, Core Options, Additional Options, and Memory were revised.
		Removed	Obsolete SKUs were removed from the QuickSpecs
02-Apr-2018	Version 6	Added	Added one new Solution SKU to pre-configured models. Added new supported SSDs. Added IST support in the what's new section.
		Removed	Removed discontinued NHP/raw HDDs.
		Changed	Power cord support in pre-config models was revised. CTO Rack model support was revised. Internal LTO/RDX along with fan redundant kit support was revised.
05-Feb-2018	Version 5	Added	Added NVIDIA Quadro P4000 GPU support. Added 12TB SAS LFF HDD. Added new LTO-8 tape drive support. Added PCle Accelerator option category, new StoreFabric CNA, etc. Added notes in embedded NIC support. Added notes in Smart Array controller/s to select cables.
		Changed	Removed hyperlink to Cable Matrix but directed to User Guide.
04-Dec-2017	Version 4	Added	Added 128GB DDR4 LRDIMM support. Added new 12TB SATA LFF HDD support – max. 144TB in LFF config.
		Changed	Updated the Smart Storage Battery with the new part number. Updated SW RAID S100i Linux OS support note.
		Removed	Removed the old Smart Storage Battery part.
23-Oct-2017	Version 3	Changed	Memory speed table was updated to display the 61XX processors running at 2666MT/s.
16-Oct-2017	Version 2	Added	Added HPE Support Services.
25-Sep-2017	Version 1	New	New QuickSpecs.

## **Summary of Changes**



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

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