HPE ProLiant DL20 Gen10 Server - Product Information Reference

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Abstract

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Revision history

Part number	Publication date	Edition	Summary of changes

Table of contents

Overview

- Summary 6
  - Product description 6
  - What's new 6
- Standard Models 7
  - New RoHS compliant part numbers 7
  - Pre-configured models 7
  - Configurable models 8
- Product features 9

Specifications

- Physical specifications 16
- Environmental specifications 17
- Electrical specifications 19
- Safety certifications 21

Compatibility/Supportability

- Spare Parts 21
  - New model specific parts lists 21
  - Mechanical components 22
  - System components 23
  - Server options 26
- Option Parts 28
  - New model specific parts lists 29
  - Processors 29
  - Memory 31
  - Power supplies 31
  - Riser kits 32
  - Optical drives 33
  - HPE Drives 34
  - HPE Networking 44
  - Optional software 45
  - Embedded management 46
  - HPE Converged infrastructure management software 47
  - HPE Security 48
  - HPE Storage controllers 49

HPE Unique options....49
HPE Storage....50
HPE Cables....51
HPE USB and SD options....51
Miscellaneous options....51
HPE Support services....52
Product related documents....53
Software Compatibility....53
OS Compatibility....54
Software Compatibility....54
Useful Links....55

Summary

Subtopics

Product description
What's new

Product description



The dense and compact HPE ProLiant DL20 Gen10 Server powered by Intel Xeon E Processor, Pentium and Core i3 processors provides a unique blend of enterprise class capabilities and value. It offers outstanding configuration flexibility to cater to a wide variety of business requirements at an affordable price point. Deploy this dense platform for diverse workloads in space constrained environments and maintain it with ease by automating the most essential server lifecycle management tasks with HPE Integrated Lights-Out (iLO) 5.

What's new

- Supports latest Intel Xeon E-2200 processors up to 8 cores and 9th Gen Core i3 and Pentium G processors and 2666 MHz UDIMM with support for Intel Software Guard Extensions. Intel SGX is an architecture extension designed to increase the security of application code and data.
- HPE 361i 1Gb 2-Port network adapter on models with Intel Xeon E-2200, i3-9300 and G5420.
- Storage enhancements in the form of increased capacity of up to 6 SFF drives & M.2 SSDs for boot.
- Dedicated iLO Management Port as an option kit for faster and more secure data transmission.
- New 480GB NVMe SSD support
- From 01 March 2020, European Union (EU) Lot 9 regulation will take effect. Complying with Lot 9 is a necessary part of acquiring the CE marking.
    - 290 W 92% power efficiency non-redundant power supply will continue to support Pre-Configured Models in regions where CE marking is NOT mandatorily required (rest of the globe, except EMEA).

- In EMEA, orders starting from 01 March 2020, to be compliant with EU Lot 9, new 290 W non-redundant Platinum power supply with 94% power efficiency will be introduced and to replace the original 92% power supply, in support of both Pre-Configured Models and Configured Factory Integrated Models (CTO/FIO).
- 290 W 94% efficiency Platinum non-redundant power supply would also be available in rest of the globe, for orders starting from 01 Mar 2020, ONLY in Configured Factory Integrated Models (CTO/FIO). These models would be compliant with EU Lot 9 regulation.

- To be compliant with EU Lot 9, more choice of Power Supplies with 500 W 94% efficiency and 800 W 48 V dc 96% efficiency Flex Slot Redundant Power Supplies are available.
- Warranty increased from 1 year to 3 years (Parts, labor & Onsite support)

Standard Models

Subtopics

New RoHS compliant part numbers
Pre-configured models
Configurable models

New RoHS compliant part numbers

To find the latest RoHS compliance information, please use the HPE PartSurfer (**Click here to visit the HPE PartSurfer website**) and click on one of the linked model numbers. When locating RoHS information in PartSurfer, you can use the Options part number for the components, the sales order number for a system that the component is used in, or the Spare part number for a specific part.

Pre-configured models

Description	Model Number
Entry models	
HPE DL20 Gen10 E-2236 1P 16G Server	P17081-B21 **Click here to obtain parts list for this model**.

Description	Model Number
HPE DL20 Gen10 G5420 1P 8G NHP Server	P17077-B21 **Click here to obtain parts list for this model**.
HPE DL20 Gen10 E2224 1P 8G NHP Server	P17078-B21 **Click here to obtain parts list for this model**.
HPE DL20 Gen10 E2224 1P 16G Server	P17079-B21 **Click here to obtain parts list for this model**.
HPE DL20 Gen10 E2224 1P 16G Server	P17080-B21 **Click here to obtain parts list for this model**.
HPE DL20 Gen10 G5400 1P 8G NHP Entry Server	P06476-B21 **Click here to obtain parts list for this model**.
HPE DL20 Gen10 E-2124 1P 8G NHP Entry Server	P08335-B21 **Click here to obtain parts list for this model**.

Configurable models

Description	Model Number
HPE ProLiant DL20 Gen10 Non-Hot Plug 2LFF Configure-To-Order (CTO) Server	P06961-B21 **Click here to obtain parts list for this model**.
HPE ProLiant DL20 Gen10 2LFF CTO Server	P06962-B21 **Click here to obtain parts list for this model**.
HPE ProLiant DL20 Gen10 4SFF CTO Server	P06963-B21 **Click here to obtain parts list for this model**.

Product features

Feature	Description
Processors	Intel Xeon processor E-Series processor family is designed to deliver the best com bination of performance, built-in capabilities, and cost-effectiveness. The product also supports Intel Pentium and Intel Core-i3 dual core processors Choose one of the following processors based on the model

Intel Xeon E-2200 Series

Intel models	CPU Frequency	Cores	L3 Cache	Power	DDR4	Intel SGX
G5420	3.8 GHz	2	4MB	54 W	2400	No
i3-9100	3.6 GHz	4	8MB	65 W	2400	No
E-2224	3.4 GHz	4	8MB	71 W	2666	No
E-2234	3.6 GHz	4	8MB	71 W	2666	No
E-2236	3.4 GHz	6	12MB	80 W	2666	No
E-2226G	3.4 GHz	6	12MB	80 W	2666	Yes
E-2244G	3.8 GHz	4	8MB	71 W	2666	Yes
E-2274G	4.0 GHz	4	8MB	83 W	2666	Yes
E-2276G	3.8 GHz	6	12MB	80 W	2666	Yes
E-2286G	4.0 GHz	6	12MB	95 W	2666	Yes
E-2278G	3.4 GHz	8	16MB	80 W	2666	Yes

Form factor	1U Rack
Chassis types	• 4 SFF with options supporting: +2 SFF • 2 LFF Hot Plug • 2 LFF Non Hot Plug

Feature	Description
System fans	Includes 3 standard single rotor non-hot plug and non-redundant fans
Chipset	Intel C242 Chipset
On system management chipset	HPE iLO 5 ASIC
Memory	

Type	Dual in-line Memory Module (DIMM) slots available	Maximum capacity (UDIMM)
HPE DDR4 Unbuffered Unregistered Dual in-line Memory Module (UDIMM)	4 4 DIMM slots per processor 2 channels per processor 2 DIMMs per channel	64GB 4 x 16GB UDIMM - 2666 MT/s

Memory protection	ECC
Network controller	• HPE Ethernet 1Gb 2-port 361i network Adapter (Intel i350) The HPE ProLiant DL20 Gen10 server offers the user a dual-port NIC standard with the option to upgrade with a variety of networking options
Expansion slots	

Expansion slots #	Technology	Bus width [2]	Connector width	Processor	Slot form factor
Primary FIO LP riser					
1	PCIe 3.0	X 8	X 8	CPU1	Low profile
2	PCIe 3.0	X 8	X 16	CPU1	Full height half length
Flexible LOM riser [1]					
1	PCIe 3.0	X 8	X 8	CPU1	Flexible LOM
2	PCIe 3.0	X 8	X 16	CPU1	Full height half length

Feature	Description

Expansion slots #	Technology	Bus width [2]	Connector width	Processor	Slot form factor

NOTE

1. This riser is mandatory for installing FlexibleLOMs.
2. Bus Width indicates the number of physical electrical lanes running to the connector.

Feature	Description
Storage controllers	**Software RAID** HPE Smart Array S100i SR Gen10 software RAID
	Essential RAID controllers • HPE Smart Array E208i-a SR G10 LH controller • HPE Smart Array E208e-p SR Gen10 controller
	Performance RAID controllers • HPE Smart Array P408i-a SR G10 LH controller • HPE Smart Array P408e-p SR Gen10 controller
Internal storage devices	**Optical drive:** Available on 4 SFF and 2 LFF CTO Servers as an option (DVD-ROM or DVD-RW)
	Hard drives None ship standard
Maximum storage	

storage	Capacity	Configuration
Hot Plug SFF SAS HDD	14.4TB	4 x 2.4TB + 2 x 2.4TB (with optional +2 drive option)
Hot Plug SFF SATA HDD	12TB	44 x 2.0TB +2 x 2.0TB (with optional + 2 drive option)

Feature	Description		
	storage	**Capacity**	**Configuration**
	Hot Plug SFF SAS SSD	92.16TB	4 x 15.36TB +2 x 15.36TB (with optional + 2 drive option)
	Hot Plug SFF SATA SSD	46.08TB	4 x 7.68TB +2 x 7.68TB (with optional + 2 drive option)
	Hot Plug LFF SAS HDD	32TB	2 x 16TB
	Hot Plug LFF SATA HDD	32TB	2 x 16TB
	Hot Plug LFF SAS SSD	3.2TB	2 x 1.6TB
	Hot Plug LFF SATA SSD	15.36TB	2 x 7.68TB
	M.2 NVM3 SSD	480GB	1 x 480GB
Power supply	• HPE 290 W FIO power supply • HPE 500 W Flex Slot Platinum hot plug low halogen power supply kit • HPE 800 W Flex Slot -48 V dc Platinum hot plug low halogen power supply kit		
Interfaces	**Serial**	**1 Port - Optional**	
	Video	1 Rear - VGA port (Standard on all chassis types)	
	Network ports	2 x 1 GbE Embedded NIC (Standard on all chassis types)	
	iLO Remote management port	1Gb Dedicated - Optional	
	USB 3.0	5 USB Ports (Standard) • **Front:** 1 x USB 3.0, 1 x USB iLO service port • **Rear:** 2 x USB 3.0	

Feature	Description	
	Serial	**1 Port - Optional**
		• **Internal:** 1 x USB 3.0
Industry standard compliance	• ACPI 6.1 Compliant • PCIe 3.0 Compliant • WOL Support • Microsoft Logo certifications • PXE Support • USB 3.0 Compliant • USB 2.0 Compliant • SMBIOS 3.1 • Unified Extensible Firmware Interface (UEFI) Forum 2.6 • Redfish API • IPMI 2.0 • Secure Digital 4.0 • Trusted Platform Module (TPM) 1.2 and 2.0 support • Advanced Encryption Standard (AES) • Triple Data Encryption Standard (3DES) • SNMP v3 • TLS 1.2 • DMTF Systems Management Architecture for Server Hardware Command Line (SMASH CLP) • Active Directory v1.0 • ASHRAE A3/A4 • Energy Star	
Upgradeability	One of the following depending on model • FlexibleLOM connector for 1Gb or 10Gb or 25Gb networking options	

Feature	Description
	• Up to 4 DIMM slots available for higher memory capacity • Up to 4SFF (+2SFF optional) Drive bays or 2LFF Drive bays • HPE Smart Array or Smart HBA controller • Redundant power supply • Dedicated iLO management port • M.2 NVMe SSDs for boot
Graphics	**Integrated Matrox G200 video standard** • Video modes up to 1920 x 1200 @ 60 Hz (32 bpp) • 16MB Video Memory **HPE iLO 5 on system management memory** • 32MB Flash • 4 Gbit DDR3 with ECC protection
Embedded management	• HPE iLO • UEFI • Intelligent Provisioning • iLO RESTful API
Security	• UEFI Secure boot and secure start support • Immutable Silicon Root of Trust • FIPS 140-2 validation • Common criteria certification • Configurable for PCI DSS compliance • Advanced Encryption Standard (AES) and Triple Data Encryption Standard (3 DES) on browser • Support for Commercial National Security Algorithms (CNSA) • iLO Security Modes including a New iLO Advanced Premium Security License • Granular control over iLO interfaces

Feature	Description
	• Smart card (PIV/CAC) and Kerberos based 2-factor Authentication • Tamper-free updates – components digitally signed and verified • Secure recovery – recover critical firmware to known good state on detection of compromised FW • Ability to rollback firmware • Secure erase of NAND • TPM 1.2 option • TPM 2.0 option • Chassis intrusion detection option • Intel SGX
Industry Standard Compliance	• ACPI 6.1 Compliant • PCIe 3.0 Compliant • WOL Support • Microsoft Logo certifications • PXE Support • USB 3.0 Compliant • USB 2.0 Compliant • SMBIOS 3.1 • UEFI 2.6 (Unified Extensible Firmware Interface Forum) • Redfish API • IPMI 2.0 • Secure Digital 4.0 • TPM 1.2 and 2.0 support • Advanced Encryption Standard (AES) • Triple Data Encryption Standard (3DES) • SNMP v3 • TLS 1.2 • DMTF Systems Management Architecture for Server Hardware Command Line (SMASH CLP) • Active Directory v1.0 • ASHRAE A3/A4 ◦ Energy Star • European Union (EU) Lot 9

Feature	Description
HPE Server UEFI/Legacy ROM	Unified Extensible Firmware Interface (UEFI) is an industry standard that provides better manageability and more securedconfiguration than the legacy ROM while interacting with your server at boot time. HPE ProLiant Gen10 servers have a UEFI Class 2implementation and support both UEFI Mode (default) and Legacy BIOS Mode. **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	• TPM 2.0 Support • iSCSI Software Initiator Support • HTTP/HTTPs Boot support as a PXE alternative • Boot support for option cards that only support an UEFI option ROM

Physical specifications

Specifications	Description
Dimensions (H x W x D)	**SFF Drives** 4.32 x 43.46 x 38.22 cm (1.70 x 17.11 x 15.05 in) **LFF Drives** 4.32 x 43.46 x 38.22 cm (1.70 x 17.11 x 15.05 in)
Weight (Approximate)	**7.88 kg (17.37 lb)** (Non-Hot Plug 2 LFF fully loaded (All hard drives, power supplies, and processors installed) **7.9 kg (17.41 lb)**

Specifications	Description
	Hot Plug 2LFF fully loaded (One hard drive, power s upply, and processor installed) Hot Plug 4SFF fully loaded (Two hard drives, power supply, and processor installed)

Environmental specifications

Specifications	Description
System inlet temperature	**Standard operating support** 10° to 35°C (50° to 95°F) at sea level with an altitude derating of 1.0°C per every 305 m (1.8°F per every 1000 ft) above sea l evel to a maximum of 3050 m (10,000 ft), no direct sustained su nlight. Maximum rate of change is 20°C/hr (36°F/hr). The upper l imit and rate of change may be limited by the type and number o f options installed. System performance during standard operating support may be reduced if operating above 30°C (86°F).
	Extended ambient operating support For approved hardware configurations, the supported system inl et range is to be: 5° to 10°C (41° to 50°F) and 35° to 40°C (95° to 104°F) at sea level with an altitude derating of 1.0°C per ever y 175 m (1.8°F per every 574 ft) above 900 m (2953 ft) to a ma ximum of 3050 m (10,000 ft). For approved hardware configurations, the supported system inl et range is to be: 40° to 45°C (104° to 113°F) at sea level with a n altitude derating of 1.0°C per every 125 m (1.8°F per every 4 10 ft) above 900 m (2953 ft) to a maximum of 3050 m (10,000 ft). System performance may be reduced if operating in the ambient operating range.
	Non-operating -30 to 60°C (-22 to 140°F) Maximum rate of change is 20°C/hr (36°F/hr).
Relative humidity (Non-condensing)	**Operating:** 8% to 90% - Relative humidity (Rh), 28°C maximum w et bulb temperature, non-condensing.

Specifications	Description
	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 th e type and number of options installed. Maximum allowable altit ude change rate is 457 m/min (1500 ft/min).
	Non-operating: 9144 m (30,000 ft). Maximum allowable altitud e change rate is 457 m/min (1500 ft/min).
Acoustic noise	Listed are the declared A-Weighted sound power levels (LWAd) a nd declared average bystander position A-Weighted sound press ure levels (LpAm) when the product is operating in a 23°C ambie nt environment. Noise emissions were measured in accordance w ith ISO 7779 (ECMA 74) and declared in accordance with ISO 92 96 (ECMA 109). The listed sound levels apply to standard shippi ng configurations. Additional options may result in increased sou nd levels.

Configuration SKU	P17077-B21	P17078-B21	P17079-B21	P17080-B21	P17081-B21	P06476-B21	P08335-B21
Idle							
LWAd	3.8 B	3.8 B	3.7 B	3.8 B	3.8 B	3.8 B	3.8 B
LpAm	20 dBA	21 dBA	21 dBA	21 dBA	20 dBA	21 dBA	20 dBA
Operating							
LWAd	3.8 B	4.5 B	4.5 B	4.7 B	4.8 B	4.3 B	4.5 B
LpAm	21 dBA	29 dBA	29 dBA	29 dBA	30 dBA	26 dBA	28 dBA

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 a re for reference only.

Electrical specifications

Specifications	Description
290 W Non-hot plug power supply	
Rated line voltage	100 to 120 V ac
	200 to 240 V ac
Rated input current	5.5 A Maximum (At 100 V ac)
Rated input frequency	50 to 60 Hz
Rated input power	550 W (At 100 V ac)
BTU Rating (Maximum)	1130 BTU/hr (At 115 V ac)
	1126 BTU/hr (At 230 V ac)
Power supply output (Per power supply)	**Rated steady state power:** 290 W Maximum
	Maximum peak power: 366 W within 10 seconds
500 W/800 W Redundant power supply	
Rated line voltage (Per power supply)	100 to 120 V ac
	200 to 240 V ac
BTU rating (Maximum)	**For 800 W power supply:** 3207 BTU/hr (At 100 V ac), 3071 BTU/hr (At 200 V ac), 3112 BTU/hr (At 240 V dc) for China only
	For 500 W power supply: 1979 BTU/hr (At 100 V ac), 1911 BTU/hr (At 200 V ac), 1965 BTU/hr (At 240 V dc) for China only
	Maximum Peak Power: For 800 W Power Supply: 800 W (at 100 V ac), 800 W (at 240 V ac), 800 W (at 240 V dc) input for China only

Specifications	Description
	For 500 W Power Supply: 500 W (at 100 V ac), 500 W (at 240 V ac), 500 W (at 240 V dc) input for Chin a only For 800 W Power Supply: 800 W (at 100 V ac), 800 W (at 240 V ac), 800 W (at 240 V dc) input for Chin a only
Power specifications	To review typical system power ratings use the Powe r Advisor which is available via the online tool locate d at **Click here to view the "Rack and power infrast ructure" for more information** and also Click on the system of interest. Example: DL20 Gen10 - Follow th e instructions of the next screens.
Power supply output (Per power supply)	**Rated steady state power:** • **For 800 W power supply:** 800 W (At 100 V ac), 800 W (At 240 V ac), 800 W (At 240 V dc) inpu t for China only • **For 500 W power supply:** 500 W (At 100 V ac), 500 W (At 240 V ac), 500 W (At 240 V dc) inpu t for China only
	Maximum peak power: • **For 800 W Power Supply:**800 W (At 100 V ac), 800 W (At 240 V ac), 800 W (At 240 V dc) inpu t for China only • **For 500 W Power Supply:** 500 W (At 100 V ac), 500 W (At 240 V ac), 500 W (At 240 V dc) inpu t for China only • **For 800 W Power Supply:** 800 W (At 100 V ac), 800 W (At 240 V ac), 800 W (At 240 V dc) inpu t for China only

Safety certifications

Specifications	Description
Emissions Classification (EMC)	To view the regulatory information for users product, view the Safety and Compliance Information for Ser ver, Storage, Power, Networking, and Rack Products, available at the Hewlett Packard Enterprise Support Center: **Click here to view the Enterprise Safety an d Compliance for more information**.

Spare Parts

Subtopics

New model specific parts lists
Mechanical components
System components
Server options

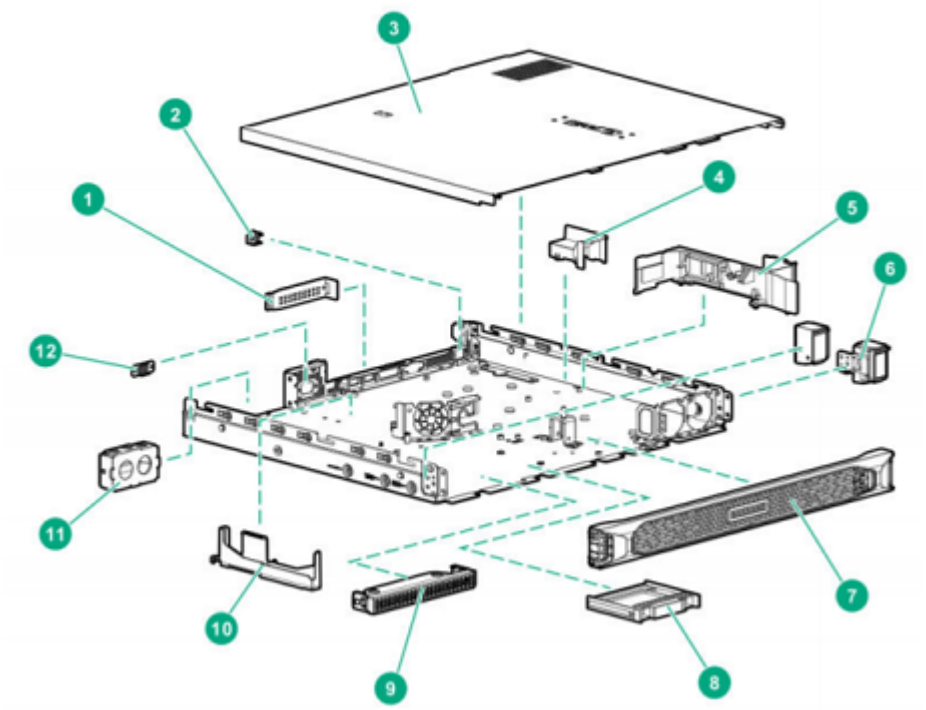
New model specific parts lists

IMPORTANT: To obtain current part number information for a specific product model, use the Standard Models page for this product family.

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- The product Standard Models page now links the model SKU numbers to the spare parts list for each model found on the HPE PartSurfer web site. (To report missing or incorrect parts information in PartSurfer, please use the "Contact us" and "Missing or incorrect data" links within the PartSurfer web site utility.)
- To look up RoHS-compliant information in PartSurfer, use the component's option part number or the sales order number for a system in which the component is used (available in the QuickSpecs or Standard Models page).

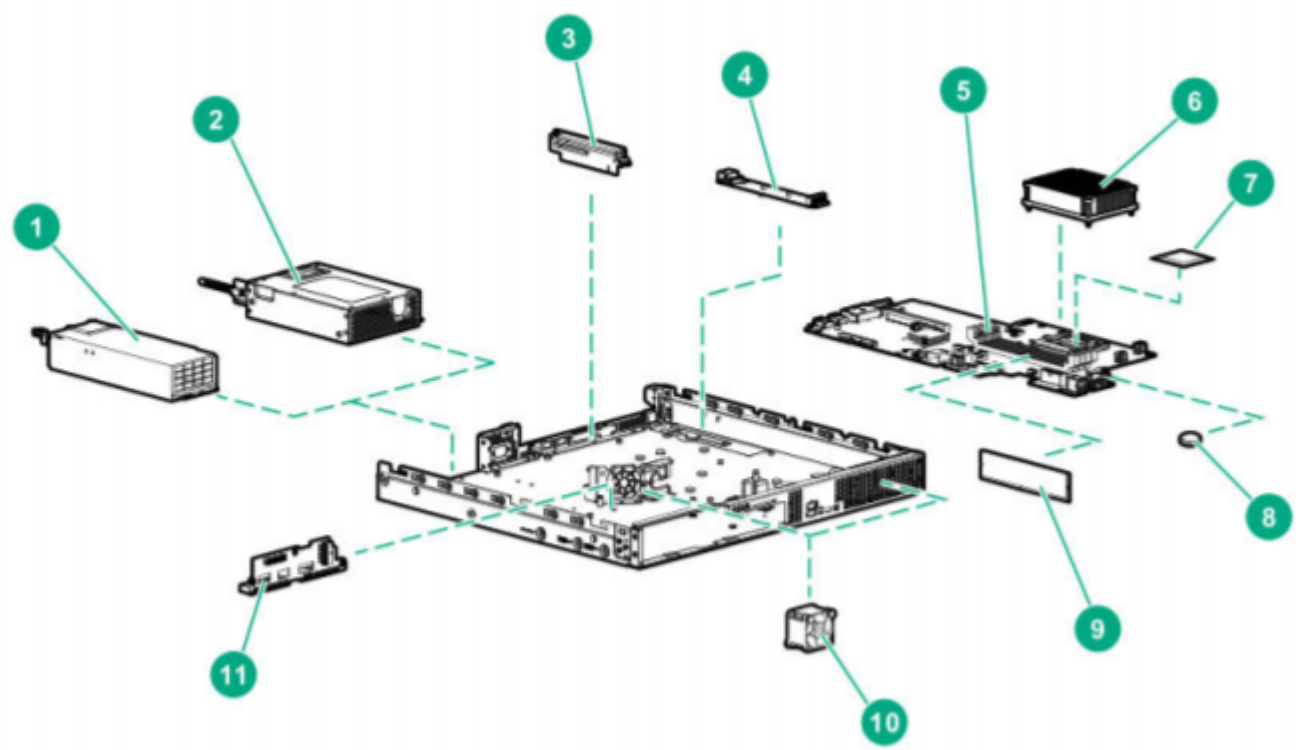
Mechanical components



Item	Description	Spare Part Number
1,2,9	Blanks kit, FLOM + iLO RJ45	P07883-001
3	Top cover	P07879-001
4,5	DIMM Guard + M.2 Air Guider Kit	P07880-001
6	Ear Latch with label	P07882-001
7	1U Bezel	875561-001
8	Hard drive blank (cover) - To fill empty Small Form Factor (SFF) drive bays - for Gen8 servers	670033-001
10	Megacell Holder	P07881-001
11	DL560/DL360 Gen9 blank cover kit - Contains power supply blank cover, Flexible LOM blank cover, fan slot blank, and heat sink blank	775423-001

Item	Description	Spare Part Number
12	PCI CPU2 blanks kit	878510-001

System components



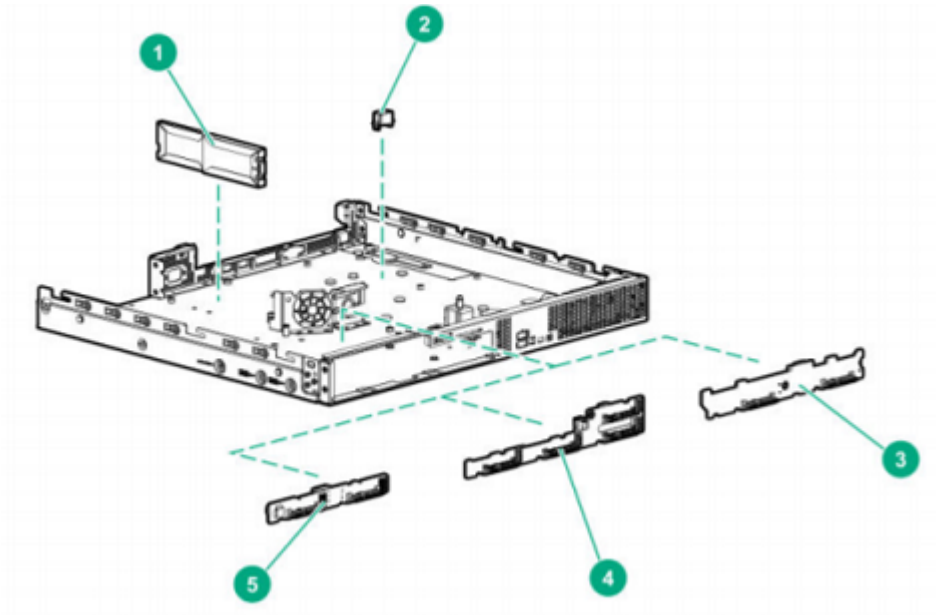
Item	Description	Spare Part Number
1	**Flexible Slot power supply**	
	HPE 800 W Flex slot -48 V dc hot plug low halogen power supply kit - 94% Efficiency, mixing of power supplies in the same server is not supported, must be the same spare part number	866728-001
	500 W Flexible slot Platinum hot-plug low halogen power supply kit, 94% efficiency - Mixing of power supplies in the same server is n	866729-001

Item	Description	Spare Part Number
	ot supported, must be the same spare part n umber	
2	**Standard power supply**	
	290 W 1 U single-out, non hot plug power su pply	P07898-001
	PSU, 1U, 290 W, 1-OUT, N-HTPLG, Platinum, CHI	P21834-001
3	**Riser board**	
	8x16 FLOM riser	P07886-001
	8x16 LP riser	P07885-001
4	**M.2 SSD/dedicated iLO/serial port enablement board**	
	iLO NIC with in M.2 riser	P07480-001
5	**System board assembly**	
	Mother board	P07884-001
	MLB, DL20 CFLR w/BBU	P19256-001
6	**Heatsink**	
	Screw-down type processor heatsink - Screw s to the system I/O board	687242-001
7	**Processor**	
	First-generation Intel processor	
	Intel Xeon E-2124 Four-Core, 64-bit process or - 3.30 GHz (Coffee lake, 8MB SmartCache, 71 W Thermal Design Power (TDP), socket F CLGA1151)	P07865-001
	Intel Xeon E-2136 Six-Core, 64-bit processor - 3.30 GHz (Coffee lake, 12MB SmartCache, 80 W TDP, socket FCLGA1151)	P07861-001
	Intel Xeon E-2126G, Six-Core, 64-bit process or - 3.30 GHz (Coffee lake, 12MB SmartCach e, 80 W TDP, socket FCLGA1151)	P07863-001

Item	Description	Spare Part Number
	Intel Xeon E-2134 Four-Core, 64-bit processor - 3.50 GHz (Coffee lake, 8MB SmartCache, 71 W TDP, socket FCLGA1151)	P07862-001
	Intel Xeon E-2144G, Four-Core, 64-bit processor - 3.60 GHz (Coffee lake, 8MB SmartCache, 71 W TDP, socket FCLGA1151)	P07860-001
	Intel Xeon E-2174G, Four-Core, 64-bit processor - 3.80 GHz (Coffee lake, 8MB SmartCache, 71 W TDP, socket FCLGA1151)	P07858-001
	Intel Xeon E-2186G, Six-Core, 64-bit processor - 3.80 GHz (Coffee lake, 12MB SmartCache, 95 W TDP, socket FCLGA1151)	P07899-001
	Intel Xeon E-2200 series processors	
	CPU, CFL-S-R Xeon E-2224	P19426-001
	CPU CFL-S-R E-2226G	P19112-001
	CPU CFL-S-R E-2236	P19113-001
	CPU CFL-S-R E-2278G	P19108-001
	CPU CFL-S-R E-2234	P19114-001
	CPU CFL-S-R E-2244G	P19111-001
	CPU CFL-S-R E-2276G	P19109-001
	CPU CFL-S-R E-2274G	P19110-001
	CPU CFL-S-R E-2286G	P19107-001
	Intel Core i3 series processors	
	CPU CFL-S-R i3-9100	P19115-001
	Intel Core i3-8300 Four-Core, 64-bit processor - 3.70 GHz (Coffee lake, 8MB SmartCache, 62 W TDP, socket FCLGA1151)	P07866-001
	Intel Pentium Gold series processors	

Item	Description	Spare Part Number
	Intel Pentium Gold G5400 Two-Core, 64-bit processor - 3.70 GHz (Coffee lake, 4MB SmartCache, 58 W TDP, socket FCLGA1151)	P07869-001
	CPU, CFL-S-R G5420	P19425-001
8	**System battery**	
	Battery for Real-Time Clock (RTC) - 3.0 V, 220 mAh, lithium coin cell, 20 mm diameter, 3.2 mm height (CR2032)	319603-001
9	**DIMM**	
	HPE 8GB (1 x 8GB) Single rank x8 DDR4-2666 CAS-19-19-19 unbuffered standard memory kit	P06772-001
	HPE 16GB (1 x 16GB) Dual rank x8 DDR4-2666 CAS-19-19-19 unbuffered standard memory kit	P06773-001
10	**Fan**	
	Fan module	P07202-001
11	**Power distribution board**	
	Power distribution board	P07887-001

Server options



Item	Description	Spare Part Number
1	**Energy pack**	
	Battery, 12 W Megacell with plug connector	878641-001
2	**HPE Trusted Platform Module (TPM) 2.0**	
	TPM - Compatible with HPE Gen10 servers running - Windows server 2012 R2 or newer, supports TPM 1.2 (UEFI and legacy mode) and 2.0 (UEFI mode)	872159-001
3,4,5	**Drive backplane**	
	Cable kit, 2LFF HDD BP	P07888-001
	Cable kit, 2SFF HDD BP mSAS MB+AROC	P07889-001
	Cable, NHP 2LFF SATA to MB	775401-001
6	**Drive cable** [1]	
	Cable kit - 2 Large Form Factor (LFF) Hard Disk Drive (HDD) Backplane	P07891-001
	Cable kit, 2 SFF, HDD, Backplane mSAS Mother Board+AROC	P07892-001
	Cable - NHP 2 LFF SATA to Motherboard	P07893-001

Item	Description	Spare Part Number
	Cable - ODD SATA to MB	P07894-001
	SPS-CAs kit, 4SFF HDD, BP to MB	P07897-001
	SPS-CAs kit, 2LFF/4SFF Slot 1	P08067-001
7	**System cable** [1]	
	Chassis intrusion detection switch cable	875570-001
	Serial port cable to M.2 SSD/dedicated iLO/serial port enablement board	P07896-001
	Cable kit, S1+2 NGFF + 2LFF Mini SAS	P07895-001
8	**Power cable** [1]	
	Cable kit, PDB, power MB + sideband MB	P07890-001

NOTE

1. Not shown in the image.

Option Parts

Subtopics

New model specific parts lists
Processors
Memory
Power supplies
Riser kits
Optical drives
HPE Drives
HPE Networking
Optional software
Embedded management
HPE Converged infrastructure management software
HPE Security
HPE Storage controllers

HPE Unique options
HPE Storage
HPE Cables
HPE USB and SD options
Miscellaneous options
HPE Support services
Product related documents

New model specific parts lists

IMPORTANT: To obtain current part number information for a specific product model, use the Standard Models page for this product family.

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- The product Standard Models page now links the model SKU numbers to the spare parts list for each model found on the HPE PartSurfer web site. (To report missing or incorrect parts information in PartSurfer, please use the "Contact us" and "Missing or incorrect data" links within the PartSurfer web site utility.)
- To look up RoHS-compliant information in PartSurfer, use the component's option part number or the sales order number for a system in which the component is used (Available in the QuickSpecs or Standard Models page).

Processors

Description	Option Part Number
Intel Xeon-E series	
HPE DL20 Gen10 Intel Xeon E-2234 (3.6 GHz/4-core/71 W) Factory Installation Option (FIO) processor kit	P17104-L21
HPE DL20 Gen10 Intel Xeon E-2244G (3.8 GHz/4-core/71 W) FIO processor kit	P17106-L21
HPE DL20 Gen10 Intel Xeon E-2236 (3.4 GHz/6-core/80 W) FIO processor kit	P17107-L21
HPE DL20 Gen10 Intel Xeon E-2274G (4.0 GHz/4-core/83 W) FIO processor kit	P17108-L21

Description	Option Part Number
Intel Xeon E-2226G (3.4 GHz/6-core/80 W) FIO processor kit	P17105-L21
Intel Xeon E-2276G (3.8 GHz/6-core/80 W) FIO processor kit	P17110-L21
HPE DL20 Gen10 Intel Xeon E-2278G (3.4 GHz/8-core/80 W) FIO processor kit	P17111-L21
HPE DL20 Gen10 Intel Xeon E-2286G (3.8 GHz/6-core/95 W) FIO processor kit	P17112-L21
HPE DL20 Gen10 Intel Xeon E-2224 (3.4 GHz/4-core/71 W) FIO processor kit	P17102-L21
HPE DL20 Gen10 Intel Xeon E-2124 (3.3 GHz/4-core/71 W) FIO processor kit	P06642-L21
HPE DL20 Gen10 Intel Xeon E-2134 (3.5 GHz/4-core/71 W) FIO processor kit	P06646-L21
HPE DL20 Gen10 Intel Xeon E-2144G (3.6 GHz/4-core/71 W) FIO processor kit	P06650-L21
HPE DL20 Gen10 Intel Xeon E-2174G (3.8 GHz/4-core/71 W) FIO processor kit	P06656-L21
HPE DL20 Gen10 Intel Xeon E-2126G (3.3 GHz/6-core/80 W) FIO processor kit	P06648-L21
HPE DL20 Gen10 Intel Xeon E-2136 (3.3 GHz/6-core/80 W) FIO processor kit	P06652-L21
HPE DL20 Gen10 Intel Xeon E-2186G (3.8 GHz/6-core/95 W) FIO processor kit	P08171-B21
Intel Core i3 series processors	
HPE DL20 Gen10 Intel Core i3-9100 (3.6 GHz/4-core/65 W) FIO processor kit	P17099-L21
HPE DL20 Gen10 Intel Core i3-8100 (3.7 GHz/4-core/62 W) FIO processor kit	P06638-L21
Intel Pentium G5000 series processors	
HPE DL20 Gen10 Intel Pentium G5420 (3.8 GHz/2-core/54 W) FIO processor kit	P17096-L21

Description	Option Part Number
HPE DL20 Gen10 Intel Pentium G5400 (3.7 GHz/2-core/58 W) FIO processor kit	P06632-L21

Memory

Description	Option Part Number
Unbuffered Dual In-Line Memory Modules (UDIMMs) - 2666 MHz	
HPE 8GB (1 x 8GB) single rank x 8 DDR4-2666 CAS-19-19-19 unbuffered standard memory kit	879505-B21
HPE 16GB (1 x 16GB) dual rank x 8 DDR4-2666 CAS-19-19-19 unbuffered standard memory kit	879507-B21

NOTE

- HPE memory from previous generation servers is not qualified or warranted with this HPE ProLiant server.
- HPE Standard memory (UDIMM) is required to realize the memory performance improvements and enhanced functionality listed in this document for this HPE ProLiant server.
- With one processor installed, four Dual In-Line Memory Modules (DIMMs) slots are available.

Power supplies

Description	Option Part Number
HPE ProLiant Gen10 essential server power supplies (Non-Redundant) [1, 2, 5]	
HPE DL20 Gen10 290 W FIO Power Supply Unit (PSU) kit	P06731-B21

Description	Option Part Number
HPE Flexible slot power supplies [5]	
HPE 500 W Flexible slot platinum hot-plug low halogen power supply kit	865408-B21
HPE 800 W Flexible slot (-48) V dc hot-plug low halogen power supply kit	865434-B21
HPE DL20 Gen10 Redundant Power Supply (RPS) enablement FIO kit	P06722-B21 [3, 4]
Power supplies	
HPE DL20 Gen10 290 W Platinum power supply kit	P21649-B21

NOTE

1. 290 W PSU is a Non Hot-Plug (NHP) plug power supply
2. This FIO option can only be bought integrated in the server. It cannot be ordered as a standalone option after server purchase.
3. It is mandatory to choose the RPS enablement kit to support RPS.
4. This RPS FIO option can only be bought integrated in the server. It cannot be ordered as a standalone option after server purchase.
5. Mixing of 2 different power supplies are not allowed

Riser kits

Description	Option Part Number
HPE DL20 Gen10 PCIe Low Profile (LP) riser kit	P09145-B21
HPE DL20 Gen10 x 8 x 16 FlexibleLOM riser kit	P06667-B21

Description	Option Part Number

Table 1. Riser Information

Description	Part number	Riser	Slot bus width (Gen3 lanes)	
			#1	#2
HPE DL20 Gen10 x 16/x8 LP riser	P09145-B21	Optional	X8	X8
HPE DL20 Gen10 x 16/x8 FlexibleLOM riser kit	P06667-B21	Optional	X8	X8

NOTE

One of the riser has to be selected mandatorily

Optical drives

Description	Option Part Number
Optical drive	
HPE Mobile USB DVD-RW optical drive [1]	701498-B21
HPE 9.5 mm SATA DVD-ROM optical drive [2]	726536-B21
HPE 9.5 mm SATA DVD-RW optical drive [2]	726537-B21
HPE DL20 Gen10 Small Form Factor (SFF) ODD enablement kit [3]	P06677-B21

NOTE

1. This kit is only supported on USB 3.0 ports only
2. This option kit is required for optical drive option (LFF model only).

Description	Option Part Number

3. This option kit is required to support ODD on SFF chassis.

HPE Drives

Description	Option Part Number
Hard Disk Drive (HDD)	
Enterprise - 12G SAS - SFF drives	
HPE 2.4TB SAS 12G enterprise 10K SFF (2.5 in) Smart Carrier (SC) 3-year warranty 512e Digitally Signed (DS) firmware HDD	881457-B21
HPE 1.8TB SAS 12G enterprise 10K SFF (2.5 in) SC 3-year warranty 512e DS firmware HDD	872481-B21
HPE 1.2TB SAS 12G enterprise 10K SFF (2.5 in) SC 3-year warranty DS firmware HDD	872479-B21
HPE 600GB SAS 12G enterprise 10K SFF (2.5 in) SC 3-year warranty DS firmware HDD	872477-B21
HPE 300GB SAS 12G enterprise 10K SFF (2.5 in) SC 3-year warranty DS firmware HDD	872475-B21
HPE 900GB SAS 12G enterprise 15K SFF (2.5 in) SC 3-year warranty DS firmware HDD	870759-B21
HPE 600GB SAS 12G enterprise 15K SFF (2.5 in) SC 3-year warranty DS firmware HDD	870757-B21
HPE 300GB SAS 12G enterprise 15K SFF (2.5 in) SC 3-year warranty DS firmware HDD	870753-B21
Midline (MDL) - 6G SATA - LFF drives	
HPE 18TB SATA 6G business critical 7.2K LFF LP 1-year warranty 512e ISE HDD	P37678-B21

Description	Option Part Number
HPE 16TB SATA 6G business critical 7.2K LFF (3.5 in) LP 1-year warranty 512e ISE HDD	P23449-B21
HPE 14TB SATA 6G MDL 7.2K LFF (3.5 in) LP 1-year warranty helium 512e DS firmware HDD	P09165-B21
HPE 12TB SATA 6G MDL 7.2K LFF (3.5 in) LP 1-year warranty helium 512e DS firmware HDD	881787-B21
HPE 10TB SATA 6G MDL 7.2K LFF (3.5 in) LP 1-year warranty helium 512e DS firmware HDD	P09161-B21
HPE 8TB SATA 6G MDL 7.2K LFF (3.5 in) LP 1-year warranty 512e DS firmware HDD	834028-B21
HPE 6TB SATA 6G MDL 7.2K LFF (3.5 in) LP 1-year warranty 512e HDD	861742-B21
HPE 4TB SATA 6G MDL 7.2K LFF (3.5 in) LP 1-year warranty DS firmware HDD	861683-B21
HPE 2TB SATA 6G MDL 7.2K LFF (3.5 in) LP 1-year warranty DS firmware HDD	861681-B21
HPE 1TB SATA 6G MDL 7.2K LFF (3.5 in) LP 1-year warranty DS firmware HDD	861686-B21
6G SATA - LFF NHP / Raw drives	
HPE 1TB SATA 6G MDL 7.2K LFF (3.5 in) RW 1-year warranty HDD	801882-B21
HPE 4TB SATA 6G MDL 7.2K LFF (3.5 in) RW 1-year warranty HDD	801888-B21
MDL - 6G SATA - SFF drives	
HPE 2TB SATA 6G MDL 7.2K SFF (2.5 in) SC 1-year warranty 512e DS firmware HDD	765455-B21
HPE 1TB SATA 6G MDL 7.2K SFF (2.5 in) SC 1-year warranty DS firmware HDD	655710-B21
MDL - 12G SAS - LFF drives	
HPE 18TB SAS 12G business critical 7.2K LFF LP 1-year warranty 512e ISE HDD	P37669-B21
HPE 16TB SAS 12G business critical 7.2K LFF (3.5 in) LP 1-year warranty 512e ISE HDD	P23608-B21
HPE 14TB SAS 12G MDL 7.2K LFF (3.5 in) LP 1-year warranty helium 512e DS firmware HDD	P09155-B21

Description	Option Part Number
HPE 2TB SAS 12G MDL 7.2K LFF (3.5 in) LP 1-year warranty DS firmware HDD	833926-B21
HPE 4TB SAS 12G MDL 7.2K LFF (3.5 in) LP 1-year warranty DS firmware HDD	833928-B21
HPE 8TB SAS 12G MDL 7.2K LFF (3.5 in) LP 1-year warranty 512e DS firmware HDD	834031-B21
HPE 12TB SAS 12G MDL 7.2K LFF (3.5 in) LP 1-year warranty helium 512e DS f irmware HDD	881781-B21
HPE 6TB SAS 12G MDL 7.2K LFF (3.5 in) LP 1-year warranty 512e HDD	861746-B21
MDL - 12G SAS - SFF drives	
HPE 2TB SAS 12G MDL 7.2K SFF (2.5 in) SC 1-year warranty 512e HDD	765466-B21
HPE 1TB SAS 12G MDL 7.2K SFF (2.5 in) SC 1-year warranty DS firmware HDD	832514-B21
HPE 1TB SAS 12G MDL 7.2K SFF (2.5 in) SC 1-year warranty 512e DS firmware HDD	765464-B21
Solid State Drive (SSD)	
Read Intensive (RI) - 12G SAS - SFF - SSD	
HPE 960GB SAS 12G RI SFF SC SS540 SSD	P21139-B21
HPE 960GB SAS 12G RI SFF SC PM5 SSD	P04517-B21
HPE 960GB SAS 12G RI SFF (2.5 in) SC 3-year warranty DS firmware SSD	P06584-B21
HPE 1.92TB SAS 12G RI SFF (2.5 in) SC 3-year warranty DS firmware SSD	P06586-B21
HPE 3.84TB SAS 12G RI SFF (2.5 in) SC 3-year warranty DS firmware SSD	P06588-B21
HPE 7.68TB SAS 12G RI SFF (2.5 in) SC 3-year warranty DS firmware SSD	P06590-B21
HPE 15.3TB SAS 12G RI SFF (2.5 in) SC 3-year warranty DS firmware SSD	P06592-B21
HPE 15.36TB SAS 12G RI SFF SC PM1643a SSD	P19911-B21
HPE 960GB SAS 12G RI SFF (2.5 in) SC 1-year warranty value SAS DS firmware SSD	P10440-B21
HPE 960GB SAS 12G RI SFF SC PM1643a SSD	P19903-B21
HPE 1.92TB SAS 12G RI SFF SC SS540 SSD	P21141-B21

Description	Option Part Number
HPE 1.92TB SAS 12G RI SFF SC PM5 SSD	P04519-B21
HPE 1.92TB SAS 12G RI SFF (2.5 in) SC 1-year warranty value SAS DS firmware SSD	P10442-B21
HPE 1.92TB SAS 12G RI SFF SC PM1643a SSD	P19905-B21
HPE 3.84TB SAS 12G RI SFF SC SS540 SSD	P21143-B21
HPE 3.84TB SAS 12G RI SFF SC PM5 SSD	P04521-B21
HPE 3.84TB SAS 12G RI SFF (2.5 in) SC 1-year warranty value SAS DS firmware SSD	P10444-B21
HPE 3.84TB SAS 12G RI SFF SC PM1643a SSD	P19907-B21
HPE 7.68TB SAS 12G RI SFF SC PM5 SSD	P04523-B21
HPE 7.68TB SAS 12G RI SFF (2.5 in) SC 1-year warranty value SAS DS firmware SSD	P10446-B21
HPE 7.68TB SAS 12G RI SFF SC PM1643a SSD	P19909-B21
RI - 24G SAS - SFF - SSD	
HPE 15.3TB SAS 24G RI SFF SC PM6 SSD	P26314-B21
HPE 7.68TB SAS 24G RI SFF SC PM6 SSD	P26310-B21
HPE 3.84TB SAS 24G RI SFF SC PM6 SSD	P26306-B21
HPE 1.92TB SAS 24G RI SFF SC PM6 SSD	P26302-B21
HPE 960GB SAS 24G RI SFF SC PM6 SSD	P26285-B21
Mixed Use (MU) – 6G SATA - SFF - SSDs	
HPE 3.84TB SATA 6G MU SFF SC multi vendor SSD	P18438-B21
HPE 3.84TB SATA 6G MU SFF SC SM883 SSD	P21517-B21
HPE 1.92TB SATA 6G MU SFF SC multi vendor SSD	P18436-B21
HPE 1.92TB SATA 6G MU SFF SC SM883 SSD	P09722-B21
HPE 960GB SATA 6G MU SFF SC multi vendor SSD	P18434-B21

Description	Option Part Number
HPE 960GB SATA 6G MU SFF SC SM883 SSD	P09716-B21
HPE 480GB SATA 6G MU SFF SC multi vendor SSD	P18432-B21
HPE 480GB SATA 6G MU SFF SC SM883 SSD	P09712-B21
HPE 3.84TB SATA 6G MU SFF SC 5300M SSD	P19953-B21
HPE 1.92TB SATA 6G MU SFF SC 5300M SSD	P19951-B21
HPE 960GB SATA 6G MU SFF SC 5300M SSD	P19949-B21
HPE 480GB SATA 6G MU SFF SC 5300M SSD	P19947-B21
MU - 12G SAS - SFF - SSD	
HPE 480GB SATA 6G MU SFF (2.5 in) SC 3-year warranty DS	P13658-B21
HPE 480GB SATA 6G MU SFF (2.5 in) SC 3-year warranty DS firmware SSD	P05976-B21
HPE 960GB SATA 6G MU SFF (2.5 in) SC 3-year warranty DS	P13660-B21
HPE 960GB SATA 6G MU SFF (2.5 in) SC 3-year warranty DS firmware SSD	P05980-B21
HPE 1.92TB SATA 6G MU SFF (2.5 in) SC 3-year warranty DS	P13662-B21
HPE 1.92TB SATA 6G MU SFF (2.5 in) SC 3-year warranty DS firmware SSD	P05986-B21
HPE 3.84TB SATA 6G MU SFF (2.5 in) SC 3-year warranty DS	P13664-B21
HPE 3.84TB SATA 6G MU SFF (2.5 in) SC 3-year warranty DS firmware SSD	P05994-B21
HPE 960GB SAS 12G MU SC 3-year warranty value SAS DS firmware SSD	P10448-B21
HPE 1.92TB SAS 12G MU SFF (2.5 in) SC 3-year warranty value SAS DS firmwar e SSD	P10454-B21
HPE 6.4TB SAS 12G MU SFF (2.5 in) SC 3-year warranty DS firmware SSD	P09096-B21
HPE 6.4TB SAS 12G MU SFF SC PM5 SSD	P04539-B21
HPE 6.4TB SAS 12G MU SFF SC PM1645a SSD	P19919-B21
HPE 3.2TB SAS 12G MU SFF SC SS540 SSD	P21135-B21
HPE 3.2TB SAS 12G MU SFF (2.5 in) SC 3-year warranty DS firmware SSD	P09094-B21

Description	Option Part Number
HPE 3.2TB SAS 12G MU SFF SC PM5 SSD	P04537-B21
HPE 3.2TB SAS 12G MU SFF SC PM1645a SSD	P19917-B21
HPE 1.6TB SAS 12G MU SFF SC SS540 SSD	P21133-B21
HPE 1.6TB SAS 12G MU SFF (2.5 in) SC 3-year warranty DS firmware SSD	P09092-B21
HPE 1.6TB SAS 12G MU SFF SC PM5 SSD	P04533-B21
HPE 1.6TB SAS 12G MU SFF SC PM1645a SSD	P19915-B21
HPE 800GB SAS 12G MU SFF SC SS540 SSD	P21131-B21
HPE 800GB SAS 12G MU SFF SC PM5 SSD	P04527-B21
HPE 800GB SAS 12G MU SFF SC PM1645a SSD	P19913-B21
HPE 400GB SAS 12G MU SFF (2.5 in) SC 3-year warranty DS firmware SSD	P04525-B21
HPE 3.84TB SAS 12G MU SFF (2.5 in) SC 3-year warranty value SAS DS firmwar e SSD	P10460-B21
MU – 6G SATA – LFF – SSD	
HPE 960GB SATA 6G MU LFF LPC 5300M SSD	P19980-B21
MU – 12G SAS - LFF - SSDs	
HPE 1.6TB SAS 12G MU LFF LPC PM5 SSD	P04535-B21
Very read optimized – 6G SATA – SFF – SSDs	
HPE 3.84TB SATA 6G very read optimized SFF SC 5210 SSD	P23489-B21
HPE 1.92TB SATA 6G very read optimized SFF SC 5210 SSD	P23487-B21
HPE 960GB SATA 6G very read optimized SFF (2.5 in) SC 3-year warranty SSD	P23490-B21
Very read optimized – 6G SATA – LFF – SSD	
HPE 7.68TB SATA 6G very read optimized LFF LPC 5210 SSD	P23495-B21
HPE 3.84TB SATA 6G very read optimized LFF LPC 5210 SSD	P23491-B21
RI - Non-Volatile Memory express (NVMe) - M.2 - SSDs	

Description	Option Part Number
HPE 480GB NVMe Gen3 mainstream performance RI M.2 22110 PE6010 SSD	P24188-B21
RI - SATA - SFF - SSD	
HPE 3.84TB SATA 6G RI SFF (2.5 in) SC 3-year warranty DS firmware SSD	P04570-B21
HPE 1.92TB SATA 6G RI SFF (2.5 in) SC 3-year warranty DS firmware SSD	P06198-B21
HPE 1.92TB SATA 6G RI SFF (2.5 in) SC 3-year warranty DS firmware SSD	P04566-B21
HPE 960GB SATA 6G RI SFF (2.5 in) SC 3-year warranty DS firmware SSD	P06196-B21
HPE 960GB SATA 6G RI SFF (2.5 in) SC 3-year warranty DS firmware SSD	P04564-B21
HPE 480GB SATA 6G RI SFF (2.5 in) SC 3-year warranty DS firmware SSD	P06194-B21
HPE 480GB SATA 6G RI SFF (2.5 in) SC 3-year warranty DS firmware SSD	P04560-B21
HPE 240GB SATA 6G RI SFF (2.5 in) SC 3-year warranty DS firmware SSD	875503-B21
HPE 240GB SATA 6G RI SFF (2.5 in) SC 3-year warranty DS firmware SSD	P04556-B21
HPE 3.84TB SATA 6G RI SFF (2.5 in) SC 3-year warranty DS firmware SSD	P06200-B21
HPE 480GB SATA 6G RI SFF (2.5 in) SC 3-year warranty DS firmware SSD	P04474-B21
HPE 960GB SATA 6G RI SFF (2.5 in) SC 3-year warranty DS firmware SSD	P04476-B21
HPE 1.92TB SATA 6G RI SFF (2.5 in) SC 3-year warranty DS firmware SSD	P04478-B21
HPE 3.84TB SATA 6G RI SFF (2.5 in) SC 3-year warranty DS firmware SSD	P04480-B21
HPE 7.68TB SATA 6G RI SFF (2.5 in) SC 3-year warranty DS firmware SSD	P04482-B21
HPE 240GB SATA 6G RI SFF (2.5 in) SC 3-year warranty DS firmware SSD	P05924-B21
HPE 480GB SATA 6G RI SFF (2.5 in) SC 3-year warranty DS firmware SSD	P05928-B21
HPE 960GB SATA 6G RI SFF (2.5 in) SC 3-year warranty DS firmware SSD	P05932-B21
HPE 1.92TB SATA 6G RI SFF (2.5 in) SC 3-year warranty DS firmware SSD	P05938-B21
HPE 3.84TB SATA 6G RI SFF (2.5 in) SC 3-year warranty DS firmware SSD	P05946-B21
RI - 6G SATA - SFF - SSDs	
HPE 7.68TB SATA 6G RI SFF SC 5300P SSD	P19945-B21

Description	Option Part Number
HPE 3.84TB SATA 6G RI SFF SC 5300P SSD	P19943-B21
HPE 1.92TB SATA 6G RI SFF SC 5300P SSD	P19941-B21
HPE 960GB SATA 6G RI SFF SC 5300P SSD	P19939-B21
HPE 480GB SATA 6G RI SFF SC 5300P SSD	P19937-B21
HPE 240GB SATA 6G RI SFF SC 5300P SSD	P19935-B21
HPE 7.68TB SATA 6G RI SFF SC multi vendor SSD	P18430-B21
HPE 3.84TB SATA 6G RI SFF SC multi vendor SSD	P18428-B21
HPE 1.92TB SATA 6G RI SFF SC multi vendor SSD	P18426-B21
HPE 960GB SATA 6G RI SFF SC multi vendor SSD	P18424-B21
HPE 480GB SATA 6G RI SFF SC multi vendor SSD	P18422-B21
HPE 240GB SATA 6G RI SFF SC multi vendor SSD	P18420-B21
RI - SATA - LFF - SSD	
HPE 480GB SATA 6G RI LFF (3.5 in) Low Profile Converter (LPC) 3-year warranty DS firmware SSD	P04499-B21
HPE 1.92TB SATA 6G RI LFF (3.5 in) LPC 3-year warranty DS firmware SSD	P04501-B21
HPE 960GB SATA 6G RI LFF LPC PM883 SSD	P09691-B21
HPE 480GB SATA 6G RI LFF LPC 5300P SSD	P19974-B21
Write Intensive (WI) - 24G SAS - SFF - SSDs	
HPE 1.6TB SAS 24G WI SFF SC PM6 SSD	P26376-B21
HPE 800GB SAS 24G WI SFF SC PM6 SSD	P26372-B21
HPE 400GB SAS 24G WI SFF SC PM6 SSD	P26295-B21
WI - 12G SAS - SFF - SSDs	
HPE 1.6TB SAS 12G WI SFF SC SS540 SSD	P21129-B21
HPE 1.6TB SAS 12G WI SFF (2.5 in) SC 3-year warranty DS firmware SSD	P09102-B21

Description	Option Part Number
HPE 1.6TB SAS 12G WI SFF SC PM5 SSD	P04545-B21
HPE 800GB SAS 12G WI SFF SC SS540 SSD	P21127-B21
HPE 800GB SAS 12G WI SFF SC PM5 SSD	P04543-B21
HPE 400GB SAS 12G WI SFF SC SS540 SSD	P21125-B21
HPE 400GB SAS 12G WI SFF SC PM5 SSD	P04541-B21
Mixed-Use - 24G SAS - SFF - SSDs	
HPE 6.4TB SAS 24G MU SFF SC PM6 SSD	P26362-B21
HPE 3.2TB SAS 24G MU SFF SC PM6 SSD	P26358-B21
HPE 1.6TB SAS 24G MU SFF SC PM6 SSD	P26354-B21
HPE 800GB SAS 24G MU SFF SC PM6 SSD	P26290-B21
MU - SATA - SFF - SSD	
HPE 3.84TB SATA 6G MU SFF (2.5 in) SC 3-year warranty DS firmware SSD	P00896-B21
HPE 480GB SATA 6G MU SFF (2.5 in) SC 3-year warranty DS firmware SSD	P07922-B21
HPE 960GB SATA 6G MU SFF (2.5 in) SC 3-year warranty DS firmware SSD	P07926-B21
HPE 1.92TB SATA 6G MU SFF (2.5 in) SC 3-year warranty DS firmware SSD	P07930-B21
MU - SATA - LFF - SSD	
HPE 1.92TB SATA 6G MU LFF (3.5 in) LPC 3-year warranty DS firmware SSD	P07934-B21
RI - NVMe - M.2 - SSD [1]	
HPE 480GB NVMe x 4 lanes RI M.2 22110 3-year warranty DS firmware SSD	875579-B21
MU - NVMe - M.2 - SSD [1]	
HPE 400GB NVMe x4 lanes MU M.2 22110 3-year warranty DS firmware SSD	875583-B21
Internal dual M.2 kit [2]	
HPE Universal SATA Half-Height Half-Length (HHHL) 3-year warranty M.2 kit	878783-B21
Read Intensive – SATA - M.2.- Solid State Drives (2280 type)	

Description	Option Part Number
HPE 480GB SATA 6G Read Intensive M.2 Multi Vendor SSD	P47818-B21
Read Intensive – NVMe - M.2.- Solid State Drives (22110 type)	
HPE 480GB NVMe Gen3 Mainstream Performance Read Intensive M.2 Multi Vendor SSD	P40513-B21
RI - M.2 - SSD (2280 type)	
HPE 960GB SATA 6G RI M.2 2280 5300P SSD	P19892-B21
HPE 480GB SATA 6G RI M.2 2280 5300P SSD	P19890-B21
HPE 240GB SATA 6G RI M.2 2280 5300B SSD	P19888-B21
HPE 480GB SATA 6G RI M.2 2280 3-year warranty DS firmware SSD	875498-B21
HPE 960GB SATA 6G RI M.2 2280 3-year warranty DS firmware SSD	875500-B21
MU - M.2 - SSD (2280 type)	
HPE 240GB SATA 6G MU M.2 2280 3-year warranty DS firmware SSD	875488-B21
HPE 480GB SATA 6G MU M.2 2280 3-year warranty DS firmware SSD	875490-B21
HPE 960GB SATA 6G MU M.2 2280 3-year warranty DS firmware SSD	875492-B21
Read Intensive - 12G SAS - SFF - Solid State Drives	
HPE 960GB SAS 12G Read Intensive SFF SC Value SAS Multi Vendor SSD	P36997-B21
HPE 1.92TB SAS 12G Read Intensive SFF SC Value SAS Multi Vendor SSD	P36999-B21
HPE 3.84TB SAS 12G Read Intensive SFF SC Value SAS Multi Vendor SSD	P37001-B21
HPE 7.68TB SAS 12G Read Intensive SFF SC Value SAS Multi Vendor SSD	P37003-B21
Mixed-Use - 12G SAS - SFF - Solid State Drives	
HPE 3.84TB SAS 12G Mixed Use SFF SC Value SAS Multi Vendor SSD	P37017-B21
HPE 1.92TB SAS 12G Mixed Use SFF SC Value SAS Multi Vendor SSD	P37011-B21
HPE 960GB SAS 12G Mixed Use SFF SC Value SAS Multi Vendor SSD	P37005-B21
Read Intensive - 12G SAS - LFF - Solid State Drives	
HPE 960GB SAS 12G Mixed Use LFF LPC Value SAS Multi Vendor SSD	P37009-B21

NOTE

1.

- HPE DL20/ML30 Gen10 M.2/dedicated iLO and serial port kit (P06687-B21).
- Running at PCIe 3.0 x2 speed on DL20 Gen10

Description	Option Part Number
• Not supported by HPE Smart array controllers • When installing Seagate NVMe x4 M.2 400/480GB SSD module, the supporting am bient temperature should be under 30° C (86° F). 2. • The Universal SATA M.2 kit above will require a PCIe slot and support up to two of t he same M.2 cards. • M.2 SATA cable kit (P06683-B21) is required to support this option.	

HPE Networking

Description	Option Part Number
25 GbE Adapters	
HPE Ethernet 10/25Gb 2-port 621SFP28 adapter	867328-B21
HPE Ethernet 10/25Gb 2-port FLR-SFP28 MCX4121A-ACFT Adapter	817749-B21
HPE Ethernet 10/25Gb 2-port SFP28 MCX4121A-ACUT adapter	817753-B21
10 GbE Adapters	
HPE Ethernet 10Gb 2-port 562T adapter	817738-B21
HPE Ethernet 10Gb 2-port 562SFP+ adapter	727055-B21
HPE Ethernet 10Gb 2-port 535T adapter	813661-B21
HPE Ethernet 10Gb 2-port 530SFP adapter	652503-B21
HPE Ethernet 10Gb 2-port 530T adapter	656596-B21
HPE Ethernet 10Gb 2-port 521T adapter	867707-B21
1 GbE Adapters	
HPE Ethernet 1Gb 4-port 366T adapter [1]	811546-B21

Description	Option Part Number
HPE Ethernet 1Gb 2-port 361T adapter	652497-B21
HPE Ethernet 1Gb 4-port BASE-T BCM5719 Adapter	647594-B21
HPE Ethernet 1Gb 2-port 332T adapter	615732-B21
FlexibleLOM Adapters [2]	
HPE Ethernet 10/25Gb 2-port 622FLR-SFP28 CNA	867334-B21
HPE Ethernet 10Gb 2-port 562FLR-SFP+ adapter	727054-B21
HPE Ethernet 10Gb 2-port 562FLR-T adapter	817745-B21
HPE FlexFabric 10Gb 4-port 536FLR-T adapter	764302-B21
HPE Ethernet 10Gb 2-port 535FLR-T adapter	817721-B21
HPE FlexFabric 10Gb 2-port 534FLR-SFP+ adapter	700751-B21
HPE FlexFabric 10Gb 2-port 533FLR-T adapter	700759-B21
HPE Ethernet 1Gb 4-port 366FLR adapter	665240-B21
HPE Ethernet 1Gb 4-port FLR-T BCM5719 adapter	629135-B22

NOTE

1. A maximum of one 366T is supported on DL20 Gen10
2. FlexibleLOM riser kit (P06667-B21) is required. When a FlexibleLOM adapter is installe d on a server with default iLO settings, the port 1 of FlexibleLOM adapter will be config ured as shared iLO port.

Optional software

Description	Option Part Number
HPE Smart Array SR secure encryption (Data at rest encryption/per server entitlement) Electronic License To Use (E-LTU)	Q2F26AAE

Description	Option Part Number
HPE Smart Array SR SmartCache (Single key/single server) License To Use (LTU)	D7S26A
HPE Smart Array SR SmartCache (Single key/multiple server) LTU	D7S27A
HPE Smart Array SR SmartCache (Single key/multiple server) E-LTU	D7S27AAE

NOTE

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.

Embedded management

Description	Option Part Number
HPE iLO Advanced	
HPE iLO advanced 1-server license with 1-year support on iLO licensed features	512485-B21
HPE iLO advanced flexible quantity license with 1-year support on iLO licensed features	512486-B21
HPE iLO advanced AKA tracking license with 1-year support on iLO licensed features	512487-B21
HPE iLO advanced 1-server license with 3-year support on iLO licensed features	BD505A
HPE iLO advanced flexible quantity license with 3-year support on iLO licensed features	BD506A
HPE iLO advanced AKA tracking license with 3-year support on iLO licensed features	BD507A
HPE iLO advanced electronic license with 1-year support on iLO licensed features	E6U59ABE

Description	Option Part Number
HPE iLO advanced electronic license with 3-year support on iLO licensed features	E6U64ABE
Software as a Service Management	
HPE GreenLake for Compute Ops Management	
HPE GreenLake for Compute Ops Management Enhanced 3-year Upfront ProLiant SaaS	R7A11AAE
Additional Options	
HPE GreenLake for Compute Ops Management Enhanced 1-year Upfront ProLiant SaaS	R7A10AAE
HPE GreenLake for Compute Ops Management Enhanced 5-year Upfront ProLiant SaaS	R7A12AAE
HPE GreenLake for Compute Ops Management Base SaaS	R6Z73AAE

HPE Converged infrastructure management software

Description	Option Part Number
HPE OneView advanced (With HPE iLO advanced)	
HPE OneView including 3-year 24x7 support physical 1-server LTU	E5Y34A
HPE OneView including 3-year 24x7 support flexible quantity E-LTU	E5Y35AAE
HPE OneView advanced (Without HPE iLO advanced)	
HPE OneView without iLO including 3-year 24x7 support 1-server LTU	P8B24A
HPE OneView without iLO including 3-year 24x7 support track 1-server LTU	P8B25A
HPE OneView without iLO including 3-year 24x7 support flexible quantity E-LTU	P8B26AAE
HPE OneView physical media kit LTU	E5Y37A

NOTE

Description	Option Part Number

- Licenses ship without media. The HPE OneView media kit can be ordered separately or can be downloaded.
- Electronic and Flexible-Quantity licenses can be used to purchase multiple licenses wit h a single activation key.

HPE Security

Description	Option Part Number
HPE DL20 Gen10 latch ear FIO kit [1, 2]	P06716-B21
HPE 1U Gen10 bezel kit [3]	867998-B21
HPE Bezel lock kit [3]	875519-B21
HPE 1U Gen10 chassis intrusion detection kit [4]	866473-B21
HPE Legacy FIO mode setting	758959-B22
HPE Gen10 Trusted Platform Module (TPM) 1.2 FIO Setting [5]	872108-B21
HPE TPM 2.0 Gen10 option [6]	864279-B21

NOTE

1. This FIO option can only be bought integrated in the server. It cannot be ordered as a standalone option after server purchase.
2. This Option is required either of the two options (867998-B21/875519-B21).
3. HPE DL20 Gen10 Latch ear FIO kit (P06716-B21) is required to support both the beze l kits.
4. This provides a physical connection from the chassis board and hood and detects any p hysical intrusion into the chassis, providing security during the entire supply chain proc ess of shipping, receiving, distribution and operation.
5. This is a FIO setting to allow the TPM 2.0 module to operate in a TPM 1.2 mode.
6. HPE TPM 2.0 option works with Gen10 servers with UEFI mode not legacy mode. It is not compatible with HPE ProLiant Gen8 servers or earlier generation variants. HPE ser

Description	Option Part Number
ver systems can have a TPM module (Of any type) installed only once. It cannot be repl aced with any other TPM module.	

HPE Storage controllers

Description	Option Part Number
HPE Flexible Smart Array Controllers	
HPE Smart Array P408i-a SR Gen10 (8 Internal lanes/2GB cache) 12G SAS modula r LH controller	869081-B21
HPE Smart Array E208i-a SR Gen10 (8 Internal lanes/No cache) 12G SAS modular LH controller	869079-B21
HPE Smart Array Controllers	
HPE Smart Array P408e-p SR Gen10 (8 External lanes/4GB cache) 12G SAS PCIe P lug-in controller	804405-B21
HPE Smart Array E208e-p SR Gen10 (8 External lanes/No cache) 12G SAS PCIe Pl ug-in controller	804398-B21
HPE Smart array controller batteries	782961-B21

HPE Unique options

Description	Option Part Number
HPE iLO Common Password	
HPE iLO common passwor FIO setting	P08040-B21

HPE Storage

Description	Option Part Number
Emulex Fibre Channel (FC) Host Bus Adapter (HBA)	
HPE StoreFabric SN1200E 16Gb single port FC HBA	Q0L13A
HPE StoreFabric SN1200E 16Gb dual port FC HBA	Q0L14A
HPE StoreFabric SN1600E 32Gb single port FC HBA	Q0L11A
HPE StoreFabric SN1600E 32Gb dual port FC HBA	Q0L12A
QLogic FC HBAs	
HPE StoreFabric SN1100Q 16Gb single port FC HBA	9D93A
HPE StoreFabric SN1100Q 16Gb dual port FC HBA	P9D94A
HPE StoreFabric SN1600Q 32Gb single port FC HBA	P9M75A
CNA	
HPE StoreFabric CN1100R dual port CNA	QW990A
HPE StoreFabric CN1100R 10GBASE-T dual port CNA	N3U52A
HPE StoreFabric CN1200E 10Gb CNA	E7Y06A
HPE StoreFabric CN1200E 10GBASE-T dual port CNA	N3U51A
Converged Network Adapters	
HPE CN1200R 10GBASE-T Converged Network Adapter	Q0F26A
HPE CN1300R 10/25Gb Dual Port Converged Network Adapter	Q0F09A
HPE SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter	P9M76A

HPE Cables

Description	Option Part Number
HPE DL20 Gen10 LFF ODD cable kit [1]	P06681-B21
HPE DL20 Gen10 M.2 SATA/LFF Adaptive RAID On Chip (AROC) cable kit [2]	P06683-B21

NOTE

1. This option kit is required for optical drive option (LFF model only).
2. This cable kit has two cables, one is required to support M.2 SATA option kit and the ot her for AROC and LFF drives.

HPE USB and SD options

Description	Option Part Number
HPE Enterprise mainstream flash media kits for memory cards	
HPE 8GB microSD flash USB drive	737953-B21
HPE 8GB dual microSD flash USB drive	741279-B21
HPE 32GB microSD RAID 1 USB boot drive	P21868-B21

Miscellaneous options

Description	Option Part Number
Dedicated iLO port/M.2 NVMe SSD/COM port upgrade kit [1]	

Description	Option Part Number
HPE DL20/ML30 Gen10 M.2/dedicated iLO and serial port kit	P06687-B21
SFF Drive kit [2]	
HPE DL20 Gen10 2SFF HDD enablement kit	P06671-B21
Hard drive blank kits	
HPE Gen9 LFF HDD spade blank kit	807878-B21
HPE SFF hard drive blank kit	666987-B21
Rail kits	
HPE 1U short friction rail kit	775612-B21

NOTE

1.
   - This option is required to support M.2 NVMe drives, dedicated iLO port or serial /COM port.
   - When installing seagate NVMe x4 M.2 400/480GB SSD module, the supporting am bient temperature should be under 30° C (86° F).
2. This option is required to upgrade 4SFF chassis to support additional 2SFF drives.

HPE Support services

Description	Option Part Number
Installation and Start-Up services	
HPE Install ML/DL series 10 service	U7WZ5E
HPE Startup ML/DL series 10 service	U7WZ7E
Foundation care	

Description	Option Part Number
HPE 3-year foundation care next business day DL20 Gen10 service	HC5N8E
HPE 3-year foundation care next business day with Defective Media Retention (DMR) DL20 Gen10 service	HC5N9E
HPE 3-year foundation care 24x7 DL20 Gen10 service	HC5P9E
HPE 3-year foundation care 24x7 with DMR DL20 Gen10 service	HC5Q0E
HPE 3-year foundation care next bus day with Comprehensive Defective Material Retention (CDMR) DL20 Gen10 service	HC5P0E
HPE 3-year foundation care 24x7 with CDMR DL20 Gen10 service	HC5Q1E
HPE 3-year foundation care next business day with CDMR DL20 Gen10 service	HC5P0E
Proactive care	
HPE 3-year proactive care 24x7 DL20 Gen10 service	HC5Q2E
HPE 3-year proactive care 24x7 with DMR DL20 Gen10 service	HC5Q3E
HPE 3-year proactive care 24x7 with CDMR DL20 Gen10 service	HC5Q4E
Tech Care	
HPE 5 Year Tech Care Essential DL20 Gen10 Service	HV6Y0E
HPE 5 Year Tech Care Essential wDMR DL20 Gen10 Service	HV6Y3E
HPE 3 Year Tech Care Essential DL20 Gen10 Service	HV6X8E
HPE 3 Year Tech Care Essential wDMR DL20 Gen10 Service	HV6Y1E
HPE 3 Year Tech Care Basic DL20 Gen10 Service	HV6Y7E
HPE 3 Year Tech Care Basic wDMR DL20 Gen10 Service	HV6Z0E

Product related documents

Click here to view a list of product related documents.

Software Compatibility

Subtopics

OS Compatibility
Software Compatibility

OS Compatibility

Feature	Description
Operating Systems and Virtualization Software	• Windows Server 2016 and 2019 (Most recent version) • VMware vSphere 6.7, 6.5 U3 and 7.0 • Red Hat Enterprise Linux (RHEL) 7.6 and 8.0 • SUSE Linux Enterprise Server (SLES) 15 and 12 SP3 • ClearOS/VM 7.5 • CentOS

NOTE

- VMware support is available on Intel Xeon E-Series processors only.
- ClearOS allows user to build a fully functional server that is just right for user at no upfront cost.

Software Compatibility

- Active Health System
- Active Health System Viewer
- Smart Update
- iLO Amplifier Pack

- HPE iLO Mobile Application
- RESTful Interface tool (iLOREST)
- Scripting Tools
- HPE OneView Standard
- HPE Systems Insight Manager (HPE SIM)

Useful Links

Descriptions	Direct Links
Alerts	**Click here to view "Alerts, Security Bulletin, Advisory, Notice and other documents of HPE ProLiant DL20 Gen10 Server".**
Drivers and Softwares	**Click here to view "Drivers and Softwares, Firmware, Driver, BIOS, Application, Utility, Operating System, Software document of HPE ProLiant DL20 Gen10 Server".**
Knowledge Articles	**Click here to view "Knowledge Articles, Troubleshooting, FAQ, How To, Informational document of HPE ProLiant DL20 Gen10 Server".**
Manuals	**Click here to view "Manuals, Guides, Release Notes, Troubleshooting articles and other related document of HPE ProLiant DL20 Gen10 Server".**
Videos	**Click here to access "Videos of Remove/Replace, Setup/Installation, Troubleshooting, Management/Operations of HPE ProLiant DL20 Gen10 Server".**