



HPE ProLiant DL20 Gen10 Server Data Sheet



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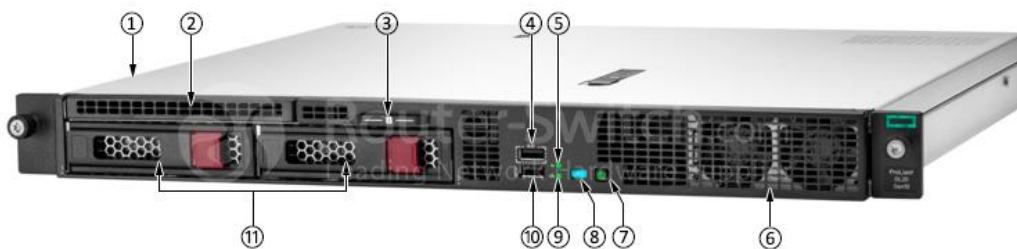
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Overview

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 & 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 iLO 5.

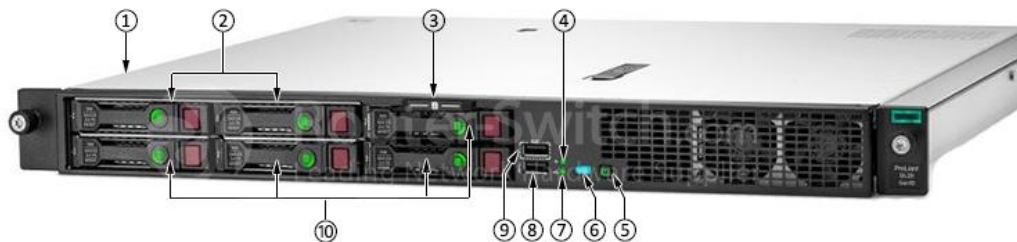
2 LFF Front View



Note:

①	Access Panel	⑦	System Power LED
②	Optical drive bay	⑧	UID LED
③	Serial number/iLO information pull tab	⑨	NIC Status LED
④	iLO Service Port (USB)	⑩	USB 3.0 Port
⑤	Health LED	⑪	Two-bay LFF hot-plug drive bays
⑥	Front Fan Assembly		

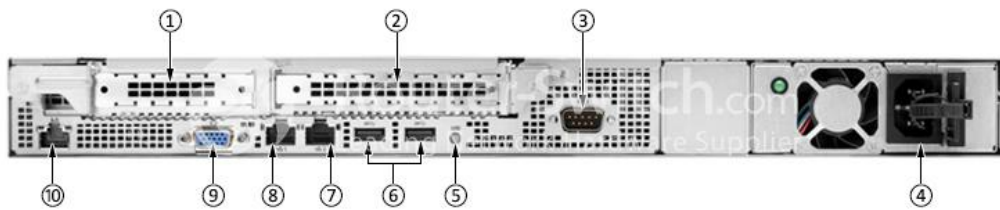
4 (+2) SFF Front View



Note:

①	Access Panel	⑥	UID LED
②	2 SFF hot plug drive bays (optional)	⑦	NIC Status LED
③	Serial number/iLO information pull tab	⑧	USB 3.0 Port
④	Health LED	⑨	iLO Service Port (USB)
⑤	System Power LED	⑩	4 SFF hot plug drive bays

Rear View – Standard for all DL20 Gen10



Note:

①	Slot 1 PCIe 3.0	⑥	Two USB 3.0 Ports
②	Slot 2 PCIe 3.0	⑦	NIC Port (1Gb)
③	Option: Serial Port	⑧	NIC port (1Gb) /iLo port
④	290W Non hotplug Power Supply	⑨	VGA port
⑤	UID LED	⑩	Option: Dedicated iLO Management Port

What's New

- Introducing support for Intel® Xeon® E Processors and 2666MHz UDIMM with support for Intel® Software Guard Extensions. Intel® SGX is an architecture extension designed to increase the security of application code and data.
- 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
- More choice of Power Supplies with 500W 94% efficiency and 800W 48VDC 96% efficiency Flex Slot Redundant Power Supplies
- Warranty increased from 1yr to 3yrs (parts, labor & Onsite support)
- New SMB focussed solutions

Platform Information

Form Factor
1U rack
Chassis Types

<ul style="list-style-type: none"> · 4 SFF with options supporting: +2 SFF · 2 LFF Hot Plug · 2 LFF Non Hot Plug
<hr/>
<p>System Fans</p> <p>Includes 3 standard single rotor non-hot plug and non-redundant fans</p> <p><i>NOTE: This applies for all three chassis: 2LFF NHP, 2LFF HP and 4SFF HP</i></p>

Standard Features

Processor

Intel® Xeon® processor E-Series processor family is designed to deliver the best combination 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.

NOTE: This table covers the public Intel offering only.

Intel Xeon Models	CPU Frequency	Cores	L3 Cache	Power	DDR4	Intel® SGX
G5400	3.7GHz	2	4MB	58W	2400	No
i3-8300	3.7GHz	4	8MB	62W	2400	No
E-2124	3.3GHz	4	8MB	71W	2666	No
E-2126G	3.3GHz	6	12MB	80W	2666	No
E-2134	3.5GHz	4	8MB	71W	2666	No
E-2136	3.3GHz	6	12MB	80W	2666	No
E-2144G	3.6GHz	4	8MB	71W	2666	No
E-2174G	3.8GHz	4	8MB	71W	2666	Yes
E-2186G	3.8GHz	6	12MB	95W	2666	Yes

Chipset

Intel® C242 Chipset

On System Management Chipset

HPE iLO 5 ASIC

Memory

One of the following depending on model

Type		HPE DDR4 Unbuffered (UDIMM)
DIMM Slots Available	4	4 DIMM slots per processor, 2 channels per processor, 2 DIMMs per channel
Maximum capacity (UDIMM)	64 GB	4 x 16 GB UDIMM @ 2666 MT/s

Memory Protection

ECC

Network Controller

HPE Ethernet 1Gb 2-port 332i network Adapter or BCM5720.

The HPE ProLiant DL20 Gen10 server offers the customer a dual-port NIC standard with the option to upgrade with a variety of networking options.

Expansion Slots

Primary FIO LP Riser	Expansion Slots #	Technology	Bus Width	Connector Width	Processor	Slot Form Factor
	1	PCIe 3.0	X8	X8	CPU1	Low profile
	2	PCIe 3.0	x8	X16	CPU1	Full height half length

Flexible LOM Riser	Expansion Slots #	Technology	Bus Width	Connector Width	Processor	Slot Form Factor
	1	PCIe 3.0	X8	X8	CPU 1	Flexible LOM
	2	PCIe 3.0	X8	x16	CPU 1	Full height half length

NOTE: This riser is mandatory for installing FlexibleLOMs.

NOTE: Bus Width indicates the number of physical electrical lanes running to the connector.

Storage Controller

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 by selecting 784308-B21.	
NOTE: The S100i is a 14-port SATA controller, but only 12 ports are accessible as 2 are leveraged to support the 2 M.2 options on the Primary Riser.	
NOTE: The S100i supports windows only.	
Essential RAID Controller	HPE Smart Array E208i-a SR G10 LH Controller HPE Smart Array E208e-p SR Gen10 Controller
Performance RAID Controller	HPE Smart Array P408i-a SR G10 LH Controller HPE Smart Array P408e-p SR Gen10 Controller

Internal Storage Devices

One of the following depending on model

· 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	14.4 TB	4 + 2 x 2.4 TB (with optional +2 drive option)

Hot Plug SFF SATA HDD	12 TB	4+2 x 2.0 TB (with optional + 2 drive option)
Hot Plug SFF SAS SSD	91.8 TB	4+2 x 15.3 TB (with optional + 2 drive option)
Hot Plug SFF SATA SSD	23.04 TB	4+2 x 3.84 TB (with optional + 2 drive option)
Hot Plug LFF SAS HDD	24 TB	2 x 12 TB
Hot Plug LFF SATA HDD	24 TB	2 x 12 TB
Hot Plug LFF SAS SSD	1.6 TB	2 x 800 GB
Hot Plug LFF SATA SSD	3.84 TB	2 x 1.92 TB

Power Supply

HPE 290W FIO Power Supply
HPE 500W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit
HPE 800W Flex Slot -48VDC 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	2x 1GbE embedded NIC (standard on all chassis types)
iLO Remote Mgmt Port	1 Gb Dedicated - Optional
USB 3.0	5 USB ports (standard) Front: 1xUSB 3.0, 1xUSB iLO Service Port Rear: 2xUSB 3.0 Internal: 1x USB 3.0

Operating Systems and Virtualization Software

- Windows Server 2016 (Most Recent Version)
- VMware vSphere 6.7 and 6.5 U2
- Red Hat Enterprise Linux (RHEL) 7.5
- SUSE Linux Enterprise Server (SLES) 15 and 12 SP3
- ClearOS/VM 7.5

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

Upgradeability

One of the following depending on model

FlexibleLOM connector for 1 or 10 or 25 Gigabit networking options

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)

16 MB Video Memory

HPE iLO 5 on system management memory

· 32 MB Flash

4 Gbit DDR3 with ECC protection

Security

· UEFI Secure Boot and Secure Start support

· Immutable Silicon Root of Trust

· FIPS 140-2 validation

· Common Criteria certification

· Configurable for PCI DSS compliance

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

· Support for Commercial National Security Algorithms (CNSA)

· iLO Security Modes including a New iLO Advanced Premium Security License

· Granular control over iLO interfaces

· Smart card (PIV/CAC) and Kerberos based 2-factor Authentication

· Tamper-free updates – components digitally signed and verified

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

FW

· Ability to rollback firmware

· Secure erase of NAND

· TPM (Trusted Platform Module) 1.2 option

· TPM (Trusted Platform Module) 2.0 option

· Bezel Locking Kit

· Chassis Intrusion detection option

· Intel® Software Guard Extensions (Intel® SGX)

Pre-configured Models

	Entry Models		Performance Models	
[SKU Number]	P06476-B21	P08335-B21	P06477-B21	P06478-B21
Model Name	HPE DL20 Gen10 G5400 1P 8G NHP Ety Svr	HPE DL20 Gen10 E-2124 1P 8G NHP Ety Svr	HPE DL20 Gen10 E-2124 1P 16G Perf Svr	HPE DL20 Gen10 E-2136 1P 16G Perf Svr
Processor	Intel® Pentium® G5400	Intel® Xeon® E-2124	Intel® Xeon® E-2124	Intel® Xeon® E-2136
Number of Processors	One			
Memory	8GB (1x8GB UDIMM, 2666 MHz)	8GB (1x8GB UDIMM, 2666 MHz)	16GB (1x16GB UDIMM, 2666 MHz)	16GB (1x16GB UDIMM, 2666 MHz)
Network Controller	HPE embedded 1Gb 2-port 332i network Adapter			
Storage Controller	Embedded 14-port S100i <i>NOTE: SATA only</i>			
Hard Drive	None ship standard; includes 2 LFF hard drive blanks		None ship standard	
Internal Storage	2 LFF HDD Bays (Non Hot Plug)		2 LFF HDD Bays (Hot Plug)	4 SFF HDD Bays (Hot Plug)
Optical Drive Bay	1; (Optional: DVD-ROM, DVD-RW)			
Optical Drive	None			
PCI-Express Slots	2 PCIe 3.0 slots			
Power Supply	(1) 290W Non Hot Plug Power Supply			1 x 500W
Fans	3 non hot plug, non-redundant			
Management	iLO Management (standard), Intelligent Provisioning (standard), iLO Essentials (optional), iLO Scale-out (optional only for DL), iLO Advanced (optional)			
Form Factor	Rack (1U), HPE Short Friction Rail Kit			

Solution Model	
[SKU Number]	P06479-B21
Model Name	HPE DL20 Gen10 E-2134 1P 16G Soln Svr
Processor	Intel® Xeon® E-2134
Number of Processors	One
Memory	16GB (1x16GB UDIMMs, 2666 MHz)

Network Controller	HPE embedded 1Gb 2-port 332i network Adapter
Storage Controller	Embedded 14-port S100i NOTE: SATA only
Hard Drive	None ship standard
Internal Storage	4 SFF HDD Bays
Optical Drive Bay	1; (Optional: DVD-ROM, DVD-RW)
Optical Drive	None
PCI-Express Slots	2 PCIe 3.0 slots
Power Supply	(1) HPE 500W Redundant Power Supply
Fans	3 non hot plug, non-redundant
Management	iLO Management (standard), Intelligent Provisioning (standard), iLO Essentials (optional), iLO Scale-out (optional only for DL), iLO Advanced (optional)
Energy Star	Meets Energy Star requirements
Form Factor	Rack (1U), HPE Short Friction Rail Kit

	Entry Model	Performance Models		Solution Model
[SKU Number]	P08335-B21	P06477-B21	P06478-B21	P06479-B21
Model Name	HPE DL20 Gen10 E-2124 1P 8G NHP Ety Svr	HPE DL20 Gen10 E-2124 1P 16G Perf Svr	HPE DL20 Gen10 E-2136 1P 16G Perf Svr	HPE DL20 Gen10 E-2134 1P 16G Soln Svr
Processor	Intel® Xeon® E-2124	Intel® Xeon® E-2124	Intel® Xeon® E-2136	Intel® Xeon® E-2134
Number of Processors	One			
Memory	8GB (1x8GB UDIMM, 2666 MHz)	16GB (1x16GB UDIMM, 2666 MHz)	16GB (1x16GB UDIMM, 2666 MHz)	16GB (1x16GB UDIMM, 2666 MHz)
Network Controller	HPE embedded 1Gb 2-port 332i network Adapter			
Storage Controller	Embedded 14-port S100i NOTE: SATA only			
Hard Drive	None ship standard			
Internal Storage	2 LFF HDD Bays (Non Hot Plug)	2 LFF HDD Bays (Hot Plug)	4 SFF HDD Bays (Hot Plug)	
Optical Drive Bay	1; (Optional: DVD-ROM, DVD-RW)			
Optical Drive	None			
PCI-Express Slots	2 PCIe 3.0 slots			
Power Supply	(1) 290W Non Hot Plug Power Supply	1 x 500W		

Fans	3 non hot plug, non-redundant
Management	iLO Management (standard), Intelligent Provisioning (standard), iLO Essentials (optional), iLO Scale-out (optional only for DL), iLO Advanced (optional)
Form Factor	Rack (1U), HPE Short Friction Rail Kit
Warranty	includes 3-Year Parts, 3-Year Labor, 3-Year Onsite support with next business day response

Configuration Information - Factory Integrated Models

This section lists some of the steps required to configure a Factory Integrated Model.

To ensure 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 number of drives ordered with server.
4. Some options may not be integrated at the factory. Contact our sales for additional information

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

CTO Server	HPE ProLiant DL20 Gen10 Non-hot Plug 2LFF Configure-to-order Server	HPE ProLiant DL20 Gen10 2LFF Configure-to-order Server	HPE ProLiant DL20 Gen10 4SFF Configure-to-order Server
SKU Number	P06961-B21	P06962-B21	P06963-B21
Processor	1	1	1
DIMM Slots	4 DIMM slots for UDIMM DDR4 Memory		
Storage Controller	Embedded 14-port S100i		
PCIe	2 PCIe 3.0 Slots		
Drive Cage	2LFF Non Hot Plug	2LFF Hot Plug	4SFF Hot Plug
Network Controller	HPE embedded 1Gb 2-port 332i network Adapter		
Fans	3 non hot plug, non-redundant		
Management	iLO Management (standard), Intelligent Provisioning (standard)		
USB	2 front, 1 internal, 2 rear		
Ears	HPE Thumbscrew Ears		

Step 2a: Choose Processor Options

Please select one –L21 processor required below.

NOTE: Only one processor supported.

NOTE: DDR4 speed is the maximum memory speed of the processor. Actual memory speed may depend

on the quantity and type of DIMMs installed.

Processor Option Kits	Required Processor
Intel Xeon-E Series	
HPE DL20 Gen10 Intel Xeon E-2124 (3.3GHz/4-core/71W) FIO Processor Kit	P06642-L21
HPE DL20 Gen10 Intel Xeon E-2134 (3.5GHz/4-core/71W) FIO Processor Kit	P06646-L21
HPE DL20 Gen10 Intel Xeon E-2144G (3.6GHz/4-core/71W) FIO Processor Kit	P06650-L21
HPE DL20 Gen10 Intel Xeon E-2174G (3.8GHz/4-core/71W) FIO Processor Kit	P06656-L21
HPE DL20 Gen10 Intel Xeon E-2126G (3.3GHz/6-core/80W) FIO Processor Kit	P06648-L21
HPE DL20 Gen10 Intel Xeon E-2136 (3.3GHz/6-core/80W) FIO Processor Kit	P06652-L21
HPE DL20 Gen10 Intel Xeon E-2186G (3.8GHz/6-core/95W) FIO Processor Kit	P08171-B21
Intel® Core® i3 series Processors	
HPE DL20 Gen10 Intel Core i3-8100 (3.7GHz/4-core/62W) FIO Processor Kit	P06638-L21
Intel® Pentium® G5000 series Processors	
HPE DL20 Gen10 Intel Pentium G5400 (3.7GHz/2-core/54W) FIO Processor Kit	P06632-L21

Step 2b: Choose Memory Options

Please select one or more memory from below.

NOTE: HPE memory from previous generation servers is not qualified or warranted with this HPE ProLiant Server.

NOTE: HPE Standard Memory (UDIMM) is required to realize the memory performance improvements and enhanced functionality listed in this document for this HPE ProLiant Server.

NOTE: With one processor installed, four DIMMs slots are available.

Unbuffered DIMMs (UDIMMs) – 2666 MHz	
HPE 8GB (1x8GB) Single Rank x8 DDR4-2666 CAS-19-19-19 Unbuffered Standard Memory Kit	879505-B21
HPE 16GB (1x16GB) Dual Rank x8 DDR4-2666 CAS-19-19-19 Unbuffered Standard Memory Kit	879507-B21

Step 2c: Choose Power Supplies

Please select one or two power supplies from below.

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

HPE ProLiant Gen10 Essential Server Power Supplies - Non-Redundant	
HPE DL20 Gen10 290W FIO Power Supply Unit Kit	P06731-B21
NOTE: 290W PSU is a Non hot plug power supply	

NOTE: This FIO option can only be bought integrated in the server. It cannot be ordered as a standalone option after server purchase.	
HPE Flex Slot Power Supplies	
HPE 500W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit	865408-B21
HPE 800W Flex Slot -48VDC Hot Plug Low Halogen Power Supply Kit	865434-B21
HPE DL20 Gen10 RPS Enablement FIO Kit	P06722-B21
NOTE: It is mandatory to choose the RPS enablement kit to support redundant power supply.	

Step 2d: Choose Riser Cards

NOTE: It is mandatory to choose one Riser Card from selections below:

HPE DL20 Gen10 x8x16 FlexibleLOM Riser Kit	P06667-B21
HPE DL20 Gen10 PCIe Low Profile Riser Kit	P09145-B21

Step 3: Choose Additional (FIO) Factory Integratable Options

Each of the following may be selected if desired at time of factory integration

HPE DL20 Gen10 Latch Ear FIO Kit	P06716-B21
NOTE: This option is required to support HPE 1U Gen10 Bezel Kit (867998-B21) and HPE Bezel Lock Kit (875519-B21).	
HPE Gen10 TPM 1.2 FIO Setting	872108-B21
NOTE: TPM 2.0 is set as default, for 1.2 TPM setting instead, please select this option.	
HPE FIO Enable Smart Array SW RAID	784308-B21
NOTE: If selected, the embedded SATA controller will work in S100i Mode. This option may not be selected with HPE Legacy FIO Mode Setting (758959-B22)	
HPE Legacy FIO Mode Setting	758959-B22
NOTE: UEFI is the default, this FIO part can be used for CTO to enable Legacy mode.	

Step 4: Choose Additional Options for Factory Integration from Core and Additional Option sections below.

Core Options

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 Hewlett Packard Enterprise approved configurator. Contact your local sales representative for additional information.	
HPE Unique Options	
Risers	
HPE DL20 Gen10 x8x16 FlexibleLOM Riser Kit	P06667-B21
NOTE: A riser is required on every model.	
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Optical Drive Options	
HPE Mobile USB DVD-RW Optical Drive	701498-B21
NOTE: This kit is only supported on USB 3.0 ports only.	
HPE 9.5mm SATA DVD-ROM Optical Drive	726536-B21

HPE 9.5mm SATA DVD-RW Optical Drive	726537-B21
HPE DL20 Gen10 LFF ODD Cable Kit	P06681-B21
NOTE: This option kit is required for Optical Drive option (LFF model only).	
HPE DL20 Gen10 SFF ODD Enablement Kit	P06677-B21
NOTE: This option kit is required to support ODD on SFF chassis.	
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SFF Drive Option Kit	
HPE DL20 Gen10 2SFF HDD Enablement Kit	P06671-B21
NOTE: This option is required to upgrade 4SFF chassis to support additional 2SFF drives.	
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Dedicated iLO Port / M.2 NVMe SSD / COM Port Upgrade Kit	
HPE DL20/ML30 Gen10 M.2/Dedicated iLO and Serial Port Kit	P06687-B21
NOTE: This option is required to support M.2 NVMe drives, Dedicated iLO Port or Serial/COM Port. NOTE: When installing Seagate NVMe x4 M.2 400/480 GB SSD module, the supporting ambient temperature should be under 30°C (86°F).	
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Security	
HPE Trusted Platform Module 2.0 Gen10 Option	864279-B21
HPE 1U Gen10 Bezel Kit	867998-B21
HPE Bezel Lock Kit	875519-B21
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Cable Kits	
HPE DL20 Gen10 M.2 SATA/LFF AROC Cbl Kit	P06683-B21
NOTE: This cable kit has two cables, one is required to support M.2 SATA option kit and the other for AROC and LFF drives.	
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HPE Drives	
Enterprise - 12G SAS - SFF Drives	
HPE 2.4TB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty 512e Digitally Signed Firmware HDD	881457-B21
HPE 1.8TB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty 512e Digitally Signed Firmware HDD	872481-B21
HPE 1.2TB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD	872479-B21
HPE 600GB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD	872477-B21
HPE 300GB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD	872475-B21
HPE 900GB SAS 12G Enterprise 15K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD	870759-B21
HPE 600GB SAS 12G Enterprise 15K SFF (2.5in) SC 3yr Wty Digitally Signed	870757-B21

Firmware HDD	
HPE 300GB SAS 12G Enterprise 15K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD	870753-B21
HPE 900GB SAS 12G Enterprise 15K SFF (2.5in) SC 3yr Wty 512e Digitally Signed Firmware HDD	870765-B21
Midline - 6G SATA - LFF Drives	
HPE 12TB SATA 6G Midline 7.2K LFF (3.5in) LP 1yr Wty Helium 512e Digitally Signed Firmware HDD	881787-B21
HPE 8TB SATA 6G Midline 7.2K LFF (3.5in) LP 1yr Wty 512e Digitally Signed Firmware HDD	834028-B21
HPE 6TB SATA 6G Midline 7.2K LFF (3.5in) LP 1yr Wty 512e HDD	861742-B21
HPE 4TB SATA 6G Midline 7.2K LFF (3.5in) LP 1yr Wty Digitally Signed Firmware HDD	861683-B21
HPE 2TB SATA 6G Midline 7.2K LFF (3.5in) LP 1yr Wty Digitally Signed Firmware HDD	861681-B21
HPE 1TB SATA 6G Midline 7.2K LFF (3.5in) LP 1yr Wty Digitally Signed Firmware HDD	861686-B21
6G SATA - LFF NHP/Raw Drives	
HPE 1TB SATA 6G Midline 7.2K LFF (3.5in) RW 1yr Wty HDD	801882-B21
HPE 4TB SATA 6G Midline 7.2K LFF (3.5in) RW 1yr Wty HDD	801888-B21
Midline 6G SATA - SFF Drives	
HPE 2TB SATA 6G Midline 7.2K SFF (2.5in) SC 1yr Wty 512e Digitally Signed Firmware HDD	765455-B21
HPE 1TB SATA 6G Midline 7.2K SFF (2.5in) SC 1yr Wty Digitally Signed Firmware HDD	655710-B21
Midline - 12G SAS - LFF Drives	
HPE 2TB SAS 12G Midline 7.2K LFF (3.5in) LP 1yr Wty Digitally Signed Firmware HDD	833926-B21
HPE 4TB SAS 12G Midline 7.2K LFF (3.5in) LP 1yr Wty Digitally Signed Firmware HDD	833928-B21
HPE 8TB SAS 12G Midline 7.2K LFF (3.5in) LP 1yr Wty 512e Digitally Signed Firmware HDD	834031-B21
HPE 10TB SAS 12G Midline 7.2K LFF (3.5in) LP 1yr Wty Helium 512e Digitally Signed Firmware HDD	857646-B21
HPE 12TB SAS 12G Midline 7.2K LFF (3.5in) LP 1yr Wty Helium 512e Digitally Signed Firmware HDD	881781-B21
HPE 1TB SAS 12G Midline 7.2K LFF (3.5in) LP 1yr Wty Digitally Signed Firmware HDD	846526-B21
HPE 4TB SAS 12G Midline 7.2K LFF (3.5in) LP 1yr Wty 512e HDD	861748-B21
HPE 6TB SAS 12G Midline 7.2K LFF (3.5in) LP 1yr Wty 512e HDD	861746-B21
Midline - 12G SAS - SFF Drives	
HPE 2TB SAS 12G Midline 7.2K SFF (2.5in) SC 1yr Wty 512e HDD	765466-B21

HPE 1TB SAS 12G Midline 7.2K SFF (2.5in) SC 1yr Wty Digitally Signed Firmware HDD	832514-B21
HPE 1TB SAS 12G Midline 7.2K SFF (2.5in) SC 1yr Wty 512e Digitally Signed Firmware HDD	765464-B21
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Read Intensive - 12G SAS - SFF - Solid State Drives	
HPE 960GB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P06584-B21
HPE 1.92TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P06586-B21
HPE 3.84TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P06588-B21
HPE 7.68TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P06590-B21
HPE 15.3TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P06592-B21
Mixed Use - 12G SAS - SFF - Solid State Drives	
HPE 400GB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	873359-B21
HPE 800GB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	873363-B21
HPE 1.6TB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	873365-B21
HPE 3.2TB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	873367-B21
Write Intensive - 12G SAS - SFF - Solid State Drives	
HPE 1.6TB SAS 12G Write Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	873357-B21
HPE 800GB SAS 12G Write Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	873355-B21
HPE 400GB SAS 12G Write Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	873351-B21
Read Intensive - SATA - SFF - Solid State Drives	
HPE 3.84TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P04570-B21
HPE 1.92TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P06198-B21
HPE 1.92TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	875513-B21
HPE 1.92TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P04566-B21
HPE 960GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed	P06196-B21

Firmware SSD	
HPE 960GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	875511-B21
HPE 960GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P04564-B21
HPE 480GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P06194-B21
HPE 480GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	875509-B21
HPE 480GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P04560-B21
HPE 240GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	875503-B21
HPE 240GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P04556-B21
HPE 3.84TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P06200-B21
HPE 480GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P04474-B21
HPE 960GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P04476-B21
HPE 1.92TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P04478-B21
HPE 3.84TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P04480-B21
HPE 7.68TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P04482-B21
Read Intensive - SATA - LFF - Solid State Drives	
HPE 480GB SATA 6G Read Intensive LFF (3.5in) LPC 3yr Wty Digitally Signed Firmware SSD	P04499-B21
HPE 1.92TB SATA 6G Read Intensive LFF (3.5in) LPC 3yr Wty Digitally Signed Firmware SSD	P04501-B21
Mixed Use - SATA - SFF - Solid State Drives	
HPE 3.84TB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P00896-B21
HPE 480GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P07922-B21
HPE 960GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P07926-B21
HPE 1.92TB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P07930-B21
Mixed Use - SATA - LFF - Solid State Drives	

HPE 1.92TB SATA 6G Mixed Use LFF (3.5in) LPC 3yr Wty Digitally Signed Firmware SSD	P07934-B21
Read Intensive - NVMe - M.2 - Solid State Drives	
HPE 480GB NVMe x4 Lanes Read Intensive M.2 22110 3yr Wty Digitally Signed Firmware SSD	875579-B21
<p>NOTE: HPE DL20/ML30 Gen10 M.2/Dedicated iLO and Serial Port Kit (P06687-B21).</p> <p>NOTE: Running at PCIe 3.0 x2 speed on DL20 Gen10.</p> <p>NOTE: Not supported by HPE Smart Array controllers.</p> <p>NOTE: When installing Seagate NVMe x4 M.2 400/480 GB SSD module, the supporting ambient temperature should be under 30°C (86°F).</p>	
Write Intensive - NVMe - M.2 - Solid State Drives	
HPE 400GB NVMe x4 Lanes Mixed Use M.2 22110 3yr Wty Digitally Signed Firmware SSD	875583-B21
<p>NOTE: HPE DL20/ML30 Gen10 M.2/Dedicated iLO and Serial Port Kit (P06687-B21).</p> <p>NOTE: Running at PCIe 3.0 x2 speed on DL20 Gen10.</p> <p>NOTE: Not supported by HPE Smart Array controllers.</p> <p>NOTE: When installing Seagate NVMe x4 M.2 400/480 GB SSD module, the supporting ambient temperature should be under 30°C (86°F).</p>	
Internal Dual M.2 Kit	
HPE Universal SATA HHL 3yr Wty M.2 Kit	878783-B21
<p>NOTE: The Universal SATA M.2 Kit above will require a PCIe slot and support up to two of the same M.2 cards below.</p> <p>NOTE: M.2 SATA Cable kit (P06683-B21) is required to support this option.</p>	
Read Intensive - M.2 - Solid State Drives (2280 type)	
HPE 480GB SATA 6G Read Intensive M.2 2280 3yr Wty Digitally Signed Firmware SSD	875498-B21
HPE 960GB SATA 6G Read Intensive M.2 2280 3yr Wty Digitally Signed Firmware SSD	875500-B21
Mixed Use - M.2 - Solid State Drives (2280 type)	
HPE 240GB SATA 6G Mixed Use M.2 2280 3yr Wty Digitally Signed Firmware SSD	875488-B21
HPE 480GB SATA 6G Mixed Use M.2 2280 3yr Wty Digitally Signed Firmware SSD	875490-B21
HPE 960GB SATA 6G Mixed Use M.2 2280 3yr Wty Digitally Signed Firmware SSD	875492-B21
Hard Drive Blank Kits	
HPE Gen9 LFF HDD Spade Blank Kit	807878-B21
HPE Small Form Factor Hard Drive Blank Kit	666987-B21
HPE Networking	
25 Gigabit Ethernet adapters	

HPE Ethernet 10/25Gb 2-port 622FLR-SFP28 Converged Network Adapter	867334-B21
HPE Ethernet 10/25Gb 2-port 621SFP28 Adapter	867328-B21
10 Gigabit Ethernet 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 Gigabit Ethernet adapters	
HPE Ethernet 1Gb 4-port 366T Adapter	811546-B21
NOTE: A maximum of one 366T is supported on DL20 Gen10	
HPE Ethernet 1Gb 2-port 361T Adapter	652497-B21
HPE Ethernet 1Gb 2-port 332T Adapter	615732-B21
FlexibleLOM Adapters	
HPE Ethernet 10/25Gb 2-port 622FLR-SFP28 Converged Network Adapter	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
NOTE: FlexibleLOM riser kit (P06667-B21) is required for above.	
NOTE: When a FlexibleLOM adapter is installed on a server with default iLO settings, the port 1 of FlexibleLOM adapter will be configured as shared iLO port.	

Additional Options

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 Us for additional information.](#)

Embedded Management	
HPE iLO Advanced	
HPE iLO Advanced 1-server License with 1yr Support on iLO Licensed Features	512485-B21
HPE iLO Advanced Flexible Quantity License with 1yr Support on iLO Licensed Features	512486-B21
HPE iLO Advanced AKA Tracking License with 1yr Support on iLO Licensed Features	512487-B21
HPE iLO Advanced 1-server License with 3yr Support on iLO Licensed Features	BD505A

HPE iLO Advanced Flexible Quantity License with 3yr Support on iLO Licensed Features	BD506A
HPE iLO Advanced AKA Tracking License with 3yr Support on iLO Licensed Features	BD507A
HPE iLO Advanced Electronic License with 1yr Support on iLO Licensed Features	E6U59ABE
HPE iLO Advanced Electronic License with 3yr Support on iLO Licensed Features	E6U64ABE
HPE iLO Advanced Premium Security Edition License with 1yr Support on Licensed Features	Q7E31A
HPE iLO Advanced Premium Security Flex Qty License with 1yr Support on Licensed Features	Q7E32A
HPE iLO Advanced Premium Security Edition Electronic License with 1yr Support on Licensed Features	Q7E32AAE
HPE iLO Advanced Premium Security Edition License with 3yr Support on Licensed Features	Q7E33A
HPE iLO Advanced Premium Security Flex Qty License with 3yr Support on Licensed Features	Q7E34A
HPE iLO Advanced Premium Security Edition Electronic License with 3yr Support on Licensed Features	Q7E34AAE
HPE iLO Advanced Premium Security Upgrade Electronic License with 3yr Support on Licensed Features	Q7E12AAE
HPE iLO Advanced Premium Security AKA Tracking License with 1yr Support on Licensed Features	Q7E35A
HPE iLO Advanced Premium Security AKA Tracking License with 3yr Support on Licensed Features	Q7E36A
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HPE Converged Infrastructure Management Software	
HPE OneView Advanced (with HPE iLO Advanced)	
HPE OneView including 3yr 24x7 Support Physical 1-server LTU	E5Y34A
HPE OneView including 3yr 24x7 Support Flexible Quantity E-LTU	E5Y35AAE
HPE OneView Advanced (without HPE iLO Advanced)	
HPE OneView w/o iLO including 3yr 24x7 Support 1-server LTU	P8B24A
HPE OneView w/o iLO including 3yr 24x7 Support Track 1-server LTU	P8B25A
HPE OneView w/o iLO including 3yr 24x7 Support Flexible Quantity E-LTU	P8B26AAE
HPE OneView Physical Media Kit LTU	E5Y37A
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HPE Security	
HPE 1U Gen10 Bezel Kit	867998-B21
HPE Bezel Lock Kit	875519-B21
NOTE: HPE DL20 Gen10 Latch Ear FIO Kit (P06716-B21) is required to support both the Bezel Kits above.	
HPE 1U Gen10 Chassis Intrusion Detection Kit	866473-B21
NOTE: This provides a physical connection from the chassis board and hood and detects any	

physical intrusion into the chassis, providing security during the entire supply chain process of shipping, receiving, distribution, and operation.

HPE Trusted Platform Module 2.0 Gen10 Option	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.	

HPE Storage Controllers

HPE Flexible Smart Array Controllers	
HPE Smart Array P408i-a SR Gen10 (8 Internal Lanes/2GB Cache) 12G SAS Modular 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 Plug-in Controller	804405-B21
HPE Smart Array E208e-p SR Gen10 (8 External Lanes/No Cache) 12G SAS PCIe Plug-in Controller	804398-B21
HPE Smart Array Controller Batteries	782961-B21

HPE Cable Options

HPE DL20 Gen10 M.2 SATA/LFF AROC Cbl Kit	P06683-B21
NOTE: This cable kit has two cables, one is required to support M.2 SATA option kit and the other for AROC and LFF drives.	
HPE DL20 Gen10 LFF ODD Cable Kit	P06681-B21
NOTE: This option kit is required for Optical Drive option (LFF model only).	

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
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.	

HPE Storage Options

Emulex Fibre Channel HBAs -	
HPE StoreFabric SN1200E 16Gb Single Port Fibre Channel Host Bus Adapter	Q0L13A
HPE StoreFabric SN1200E 16Gb Dual Port Fibre Channel Host Bus Adapter	Q0L14A

HPE StoreFabric SN1600E 32Gb Single Port Fibre Channel Host Bus Adapter	Q0L11A
HPE StoreFabric SN1600E 32Gb Dual Port Fibre Channel Host Bus Adapter	Q0L12A

For more options, please contact us: sales@router-switch.com.

Technical Specifications

System Unit		
Dimensions (Height x Width x Depth)	4.32 x 43.46 x 38.22 cm 1.70 x 17.11 x 15.05 in	SFF Drives
	4.32 x 43.46 x 38.22 cm 1.70 x 17.11 x 15.05 in	LFF Drives
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	Hot Plug 2LFF fully loaded (one hard drive, power supply, and processor installed)
		Hot Plug 4SFF fully loaded (two hard drives, power supply, and processor installed)
290W Non-hot Plug Power Supply		
Input Requirements	Rated Line Voltage	100 to 120 VAC 200 to 240 VAC
	Rated Input Current	5.5 A max (at 100 VAC)
	Rated Input Frequency	50 to 60 Hz
	Rated Input Power	550 W (at 100 VAC)
BTU Rating	Maximum	1130 BTU per hr (at 115 VAC)
		1126 BTU per hr (at 230 VAC)
Power Supply Output (per power supply)	Rated Steady-State Power	290 W Max
	Maximum Peak Power	366 W within 10 seconds
500W/800W Redundant Power Supply		
Input Requirements (per power supply)	Rated Line Voltage	100 to 120 VAC 200 to 240 VAC
BTU Rating	Maximum	For 800W Power Supply: 3207 BTU/hr (at 100 VAC), 3071 BTU/hr (at 200 VAC), 3112 BTU/hr (at 240 VDC) for China Only
		For 500W Power Supply: 1979 BTU/hr (at 100 VAC), 1911 BTU/hr (at 200 VAC), 1965 BTU/hr (at 240 VDC) for China Only

Power Supply Output (per power supply)	Rated Power	Steady-State	For 800W Power Supply: 800W (at 100 VAC), 800W (at 240 VAC), 800W (at 240 VDC) input for China only
			For 500W Power Supply: 500W (at 100 VAC), 500W (at 240 VAC), 500W (at 240 VDC) input for China only
	Maximum Power	Peak	For 800W Power Supply: 800W (at 100 VAC), 800W (at 240 VAC), 800W (at 240 VDC) input for China only
			For 500W Power Supply: 500W (at 100 VAC), 500W (at 240 VAC), 500W (at 240 VDC) input for China only
			For 800W Power Supply: 800W (at 100 VAC), 800W (at 240 VAC), 800W (at 240 VDC) input for China only
	System Temperature	Inlet	Standard Support
Extended Ambient Operating Support			<p>For approved hardware configurations, the supported system inlet range is to be: 5° to 10°C (41° to 50°F) and 35° to 40°C (95° to 104°F) at sea level with an altitude derating of 1.0°C per every 175 m (1.8°F per every 574 ft) above 900 m (2953 ft) to a maximum of 3050 m (10,000 ft).</p> <p>For approved hardware configurations, the supported system inlet range is to be: 40° to 45°C (104° to 113°F) at sea level with an altitude derating of 1.0°C per every 125 m (1.8°F per every 410 ft) above 900 m (2953 ft) to a maximum of 3050 m (10,000 ft).</p> <p>System performance may be reduced if</p>

		operating in the ambient operating range.				
	Non-operating	-30°C to 60°C (-22°F to 140°F) Maximum rate of change is 20°C/hr (36°F/hr).				
Relative Humidity (non-condensing)	Operating	8% to 90% - Relative humidity (Rh), 28°C maximum wet bulb temperature, non-condensing.				
	Non-operating	5 to 95% relative humidity (Rh), 38.7°C (101.7°F) maximum wet bulb temperature, non-condensing.				
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 (LWAd) and declared average bystander position A-Weighted sound pressure levels (LpAm) when the product is operating in a 23°C ambient environment. Noise emissions were measured in accordance with ISO 7779 (ECMA 74) and declared in accordance with ISO 9296 (ECMA 109). The listed sound levels apply to standard shipping configurations. Additional options may result in increased sound levels. Please have your HPE representative provide information from the HPE EMESC website for further technical details regarding the configurations listed below.					
	Configuration SKU	P06476-B21	P08335-B21	P06477-B21	P06478-B21	P06479-B21
	Idle					
	LWAd	3.8 B	3.8 B	3.7 B	3.8 B	3.8 B
	LpAm	21 dBA	20 dBA	21 dBA	20 dBA	20 dBA
	Operating					
	LWAd	4.3 B	4.5 B	4.5 B	4.6 B	4.4 B
	LpAm	26 dBA	28 dBA	28 dBA	28 dBA	27 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 are for reference only.					

Where to Buy

Want to buy this series of products? please contact:

- Tel: +1-626-239-8066 (USA)/ +852-3050-1066 / +852-3174-6166
- Fax: +852-3050-1066 (Hong Kong)
- Email: sales@router-switch.com (Sales Inquiries)

Or visit: [HPE DL20 Gen10 Server](#)

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