



HPE DL385 Gen10 All-Flash SAS SSD Azure Stack HCI Solution

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Solution BOM/node
Version 1.3

HPE DL385 Gen10 24SFF All-Flash
SAS SSD capacity
Processor configurations 2.0 GHz or faster
Memory configurations from 64 GB to 4 TB
Minimum of 2 nodes with a cluster witness
Maximum of 16 nodes

Item	Description	Part number	Quantity
Operating system	Windows Server® 2019 Datacenter (16 core) HPE recommends HPE OEM licenses	See Appendix for HPE OEM license options	1
Additional processor core licenses depend upon processor option	Windows Server 2019 Datacenter Additional License (2 cores) HPE recommends HPE OEM licenses	See Appendix for HPE OEM license SKUs	Varies
Server	HPE DL385 Gen10 24SFF Configure-to-order Server	878613-B21	1
Processors	Any processor 2.0 GHz or faster. See the HPE ProLiant DL385 Gen10 QuickSpecs for Processor Options	xxxxxx-L21 xxxxxx-B21	1 or 2
Memory	Memory size must be between 64 GB and 4 TB. See the HPE ProLiant DL385 Gen10 QuickSpecs for Memory Options		
Network adapters	See network adapter options for FlexibleLOM and PCIe plug-in controllers		1 or more
OS boot (rear cage)	HPE 2TB 6G SATA 7.2K rpm SFF HDD	765455-B21	2
2 SFF kit	HPE DL38x Gen10 2SFF Premium HDD Front NVMe or Front/Rear SAS/SATA Kit	826687-B21	1
Storage controllers	See storage controller options for modular and PCIe plug-in controllers		1 or more
Power supply	HPE 800W FS Plat Ht Plg LH Pwr Sply Kit	865414-B21	2
TPM	HPE TPM 2.0 Gen10 Kit	864279-B21	1
Rail kit	HPE 2U SFF Easy Install Rail Kit	733660-B21	1
HPE OneView	HPE OV w/o iLO 3yr 24x7 FIO Phys 1 LTU	P8B31A	1
HPE iLO Advanced	HPE iLO Adv Security Lic 3yr Support	BD505A	1

Option type	Description	Part number	Quantity
Network FlexibleLOM	HPE Ethernet 10/25Gb 2-port 640FLR-SFP28 Adapter	817749-B21	1
Network FlexibleLOM	HPE Ethernet 10/25Gb 2-port 622FLR-SFP28 Converged Network Adapter	867334-B21	1
Network adapter PCIe plug-in	HPE Ethernet 10Gb 2-port 521T Adapter	867707-B21	1
Network adapter PCIe plug-in	HPE Ethernet 10/25Gb 2-port 640SFP28 Adapter	817753-B21	1
Network adapter PCIe plug-in	HPE Ethernet 10/25Gb 2-port 621SFP28 Adapter	867328-B21	1
Network adapter PCIe plug-in	HPE InfiniBand EDR/Ethernet 100Gb 1-port 840QSFP28 Adapter	825110-B21	1
Network adapter PCIe plug-in	HPE InfiniBand EDR/Ethernet 100Gb 2-port 840QSFP28 Adapter	825111-B21	1
Storage controller modular	HPE Smart Array P816i-a SR Gen10 (16 Internal Lanes/4GB Cache/SmartCache) 12G SAS Modular Controller	804338-B21	1
Storage controller modular	HPE Smart Array E208i-a SR Gen10 (8 Internal Lanes/No Cache) 12G SAS Modular Controller	804326-B21	1
Storage controller modular	HPE Smart Array P408i-a SR Gen10 (8 Internal Lanes/2GB Cache) 12G SAS Modular Controller	804331-B21	1
Storage controller PCIe plug-in	HPE Smart Array E208i-p SR Gen10 (8 Internal Lanes/No Cache) 12G SAS PCIe Plug-in Controller	804394-B21	1
Storage controller PCIe plug-in	HPE Smart Array P408i-p SR Gen10 (8 Internal Lanes/2GB Cache) 12G SAS PCIe Plug-in Controller	830824-B21	1



Option type	Description	Part number	Quantity
Storage controller PCIe plug-in	HPE Smart Array E208e-p SR Gen10 (8 External Lanes/No Cache) 12G SAS PCIe Plug-in Controller	804398-B21	1
Storage controller PCIe plug-in	HPE Smart Array P408e-p SR Gen10 (8 External Lanes/4GB Cache) 12G SAS PCIe Plug-in Controller	804405-B21	1
Storage SAS expander	HPE DL38x Gen10 12Gb SAS Expander	870549-B21	1
Minimum drive size validated, equal or larger drive sizes may be used			
Capacity SSD	HPE 800GB SAS 12G MU SFF SC DS SSD	See guidelines below	4 or more

Cabling instructions can be found [here](#).

Configuration guidelines

- HPE P816i-a controller has 16 PCIe lanes allowing connection of up to 16 SAS or SATA drives. It is your perfect choice for achieving maximum Storage Spaces Direct I/O performance without the use of an SAS expander.
- The D3610/D3710 Enclosures are supported for adding additional SAS drives to this solution.
- OS boot drives must not reside on any Smart Array Controller containing Storage Spaces Direct drives.
- Storage Spaces Direct drives can only reside on a Smart Array Controller configured exclusively in HBA Mode.
- Storage Spaces Direct drives cannot reside on any Smart Array Controller configured in either RAID or mixed mode (RAID logic drives and HBA physical drives simultaneously).
- Use of alternative size capacity SAS SSD drives within this solution is permitted.
 - All drives available for HPE ProLiant can be used with HPE Azure Stack HCI® solutions.
 - The capacity must be configured with 4 or more SAS SSDs with a size greater than or equal to 800 GB.
 - See the [HPE ProLiant DL385 Gen10 QuickSpecs](#) for alternative drive options.
 - For more information on hardware requirements, refer to [Microsoft®'s Storage Spaces Direct web doc—hardware requirements](#).
- Use of alternative boot drives other than what is specified in this configuration is supported. SDDC Premium AQ is not required for boot drives.
- Update the drivers and firmware for the Smart Arrays, Network Adapters, and Storage Drives using [Service Pack for ProLiant \(SPP\) Version 2018.11.0](#) or newer.

Appendix

Hewlett Packard Enterprise recommends cost-efficient HPE OEM Windows Server 2019 Datacenter licenses for a complete Azure Stack HCI Solution from hardware to operating system out of one hand. Alternatively, customer supplied Windows Server 2019 Datacenter licenses such as Volume License or Retail can also be used.

The HPE OEM Windows Server Core Licensing Calculator tool can assist you in calculating the number of required licenses: hpe.com/servers/windows-license-calculator.

HPE offers OEM Windows Server licenses in two distinct options and a wide range of languages:

- **Reseller Option Kit (ROK)**—Available through authorized HPE resellers at the time of purchase of an [HPE server system](#).
- **Direct from HPE factory**—Available for sale along with the purchase of your HPE server from the factory, you can select OEM Windows Server 2019 Datacenter as a **not preinstalled** (Npi) option (also referred to as **drop in the box** license).

In both the options, the OS media is included with the server.

For an updated list of available part numbers, see the [HPE OEM Windows Server 2019 OEM QuickSpecs](#).




Reference

[Microsoft Windows Server 2019 OEM from HPE](#)

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