



HPE PROLIANT DL180 GEN10 HYBRID SATA-SAS AZURE STACK HCI SOLUTION

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Solution BOM/node
Version 1.0

HPE DL180 Gen10 Hybrid SATA-SAS
SATA SSD Cache/SAS HDD Capacity
Processor configurations 2.1 GHz or faster
Memory configurations from 64 GB to 1 TB
Minimum of 2 nodes with a cluster witness
Maximum of 4 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 options	Varies
Server	HPE ProLiant DL180 Gen10 4208 2.1GHz 8-core 1P 16GB-R S100i 8SFF 500W RPS Server	P19564-B21	1
Processors	See HPE DL180 Gen10 QuickSpecs for Processor Options	xxxxxx-L21 xxxxxx-B21	1 or 2
Memory	See HPE DL180 Gen10 QuickSpecs for Memory Options	xxxxxx-xxx	Varies
Network adapter PCIe plug-in	HPE Ethernet 10/25Gb 2-port 621SFP28 Adapter	867328-B21	1
Storage controller modular	HPE Smart Array E208i-a SR Gen10 (8 Internal Lanes/No Cache) 12G SAS Modular Controller	804326-B21	1
M.2 Enablement	HPE Universal SATA HH M.2 Kit	878783-B21	1
M.2 Cable	HPE DL180 Gen10 M.2 Cable Kit	875135-B21	1
OS Boot (M.2)	HPE 240GB SATA MU M.2 2280 DS SSD	875488-B21	2
Cable	HPE DL180 Gen10 SFF Box3 to Smart Array E208i-a/P408i-a Cable Kit	882011-B21	1
Power supply	HPE 500W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit	865414-B21	2
Power supply enable	HPE DL180 Gen10 Redundant Power Supply Enablement Kit	P04983-B21	1
TPM	HPE Trusted Platform Module 2.0 Gen10 Option	864279-B21	1
Rail kit	HPE 2U Small Form Factor Easy Install Rail Kit	733660-B21	1
HPE OneView	HPE OneView w/o iLO Advance including 3yr 24x7 Support Track 1-server LTU	E5Y40A	1
iLO Advanced	HPE iLO Advanced 1-server License with 3yr Support on iLO Licensed Features	BD505A	1

Option type	Description	Part number	Quantity
Minimum drive size validated, equal or larger drive sizes may be used			
Cache SSD	HPE 480GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	See guidelines below	2 or more
Capacity HDD	HPE 1.2TB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD	See guidelines below	4 or more



CONFIGURATION GUIDELINES

- Use of alternative size SATA SSD Cache and SAS HDD Capacity Drives within this Solution is permitted.
 - The Cache must be configured with 2 or more SATA SSDs with a size greater than or equal to 480 GB
 - The Capacity must be configured with 4 or more SAS HDDs drives with a size greater than or equal to 1.2 TB
 - See [HPE DL180 Gen10 QuickSpecs](#) for alternative drive options
 - For more information on hardware requirements, refer to [Microsoft's Storage Spaces Direct web doc—hardware requirements](#)
- 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 boot drives other than what is specified in this configuration is supported. SDDC Premium AQ is not required for boot drives.
- Update this Azure Stack HCI® Solution drivers and firmware for the smart arrays, network adapters, and storage drives using [Service Pack for ProLiant \(SPP\) Version 2019.09.0](#) or newer.
- For information on configuration and deployment of HPE Azure Stack HCI Solutions on ProLiant see, [Implementing Windows Server 2019 Storage Spaces Direct using HPE ProLiant servers](#).

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 Windows Server 2019 OEM QuickSpecs](#).



Reference

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

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