



HPE COMPLETE BOM GUIDELINES: COMMVAULT HYPERSCALE



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HPE APOLLO 4200 GEN10 FOR COMMVAULT HYPERSCALE 1.5

Baseline components

The components below are required in all configurations.

TABLE 1. HPE Apollo 4200 Gen10 Baseline Components for Commvault HyperScale 1.5

Quantity	Part number	Description	Flex component	Notes
1	P07244-B21	HPE Apollo 4200 Gen10 24LFF Configure-to-order Server		
1	P19703-L21	Intel® Xeon® Silver 4210R (2.4GHz/10-core/100W) FIO Processor Kit		
1	P19703-B21	Intel Xeon Silver 4210R (2.4GHz/10-core/100W) Processor Kit		
8	P00924-K21	HPE 32GB (1x32GB) Dual Rank x4 DDR4-2933 CAS-21-21-21 Registered Smart Memory Kit		
1	869083-B21	HPE Smart Array P816i-a SR Gen10 (16 Internal Lanes/4GB Cache/SmartCache) 12G SAS Modular LH Controller		
1	P01367-B21	HPE 96W Smart Storage Battery (up to 20 Devices) with 260mm Cable Kit		
2	817753-B21	HPE Ethernet 10/25Gb 2-port SFP28 MCX4121A-ACUT Adapter		
*	*	Boot/Metadata	✓	Refer to Table 2
*	*	Data Storage Options	✓	Refer to Table 2
1	*	Optional I/O	✓	Refer to Table 2
*	*	Transceivers and Network Cables	✓	Refer to Table 2
2	830272-B21	HPE 1600W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit		
1	*	iLO Management	✓	Refer to Table 2
1	*	Rail Kit	✓	Refer to Table 2
*	*	HPE Support	✓	Refer to Table 2

* Refer to Table 2, HPE Apollo 4200 Gen10 Flex component guidelines

Flex component guidelines

The guidelines below must be satisfied for each component category.

TABLE 2. HPE Apollo 4200 Gen10 Flex component guidelines for Commvault HyperScale 1.5

Name	Guidelines																																																												
Boot/Metadata	<p>Separate Boot/Metadata is required for an HPE Apollo 4200 Gen10 Commvault HyperScale Node. Three configurations are supported. The first configuration below is recommended and the second and third are optional. Configure either the recommended or one of the optional.</p> <p>Recommended:</p> <table border="1"> <thead> <tr> <th>Quantity</th> <th>Part number</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>830824-B21</td> <td>HPE Smart Array P408i-p SR Gen10 12G SAS PCIe Plug-in Controller</td> </tr> <tr> <td>1</td> <td>P14010-B21</td> <td>HPE Apollo 4200 Gen10 6SFF SAS/SATA Rear Drive Cage Kit</td> </tr> <tr> <td>1</td> <td>P09656-B21</td> <td>HPE Smart Array E/P SR FIO Controller Mode for Rear Storage</td> </tr> <tr> <td>2</td> <td>P18432-K21</td> <td>HPE 480GB SATA 6G Mixed Use SFF SC 3yr Wty Multi Vendor SSD</td> </tr> <tr> <td>1</td> <td>P04539-K21</td> <td>HPE 6.4TB SAS 12G Mixed Use SFF SC PM5 SSD</td> </tr> </tbody> </table> <p>Option 1:</p> <p>All of the SKUs below are required:</p> <table border="1"> <thead> <tr> <th>Quantity</th> <th>Part number</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>P07943-B21</td> <td>HPE Apollo 4200 Gen10 4LFF Rear Cage Kit</td> </tr> <tr> <td>1</td> <td>813546-B21</td> <td>HPE 2nd Cage FIO Controller Mode for Rear Storage</td> </tr> </tbody> </table> <p>Boot drives, quantity 2, select 480 GB SATA LFF SSDs from the supported drives below:</p> <table border="1"> <thead> <tr> <th>Quantity</th> <th>Part number</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>P19974-K21</td> <td>HPE 480GB SATA 6G Read Intensive LFF LPC 5300P SSD</td> </tr> </tbody> </table> <p>Metadata drives, quantity 1, select one 6.4 TB PCIe NVMe MU SSD from the supported drives below:</p> <table border="1"> <thead> <tr> <th>Quantity</th> <th>Part number</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>P26938-K21</td> <td>HPE 6.4TB NVMe Gen4 x8 High Perf Mixed Use AIC HHHL PM1735 SSD</td> </tr> </tbody> </table> <p>Option 2:</p> <p>All of the SKUs below are required:</p> <table border="1"> <thead> <tr> <th>Quantity</th> <th>Part number</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>P07943-B21</td> <td>HPE Apollo 4200 Gen10 4LFF Rear Cage Kit</td> </tr> <tr> <td>1</td> <td>813546-B21</td> <td>HPE 2nd Cage FIO Controller Mode for Rear Storage</td> </tr> </tbody> </table> <p>Boot drives, quantity 2, select 480 GB SATA LFF SSDs from the supported drives below:</p> <table border="1"> <thead> <tr> <th>Quantity</th> <th>Part number</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>P19974-K21</td> <td>HPE 480GB SATA 6G Read Intensive LFF LPC 5300P SSD</td> </tr> </tbody> </table> <p>Metadata drives, quantity 2, select 3.2 TB PCIe NVMe MU SSDs from the supported drives below:</p> <table border="1"> <thead> <tr> <th>Quantity</th> <th>Part number</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>P26936-K21</td> <td>HPE 3.2TB NVMe Gen4 x8 High Perf Mixed Use AIC HHHL PM1735 SSD</td> </tr> </tbody> </table>	Quantity	Part number	Description	1	830824-B21	HPE Smart Array P408i-p SR Gen10 12G SAS PCIe Plug-in Controller	1	P14010-B21	HPE Apollo 4200 Gen10 6SFF SAS/SATA Rear Drive Cage Kit	1	P09656-B21	HPE Smart Array E/P SR FIO Controller Mode for Rear Storage	2	P18432-K21	HPE 480GB SATA 6G Mixed Use SFF SC 3yr Wty Multi Vendor SSD	1	P04539-K21	HPE 6.4TB SAS 12G Mixed Use SFF SC PM5 SSD	Quantity	Part number	Description	1	P07943-B21	HPE Apollo 4200 Gen10 4LFF Rear Cage Kit	1	813546-B21	HPE 2nd Cage FIO Controller Mode for Rear Storage	Quantity	Part number	Description	2	P19974-K21	HPE 480GB SATA 6G Read Intensive LFF LPC 5300P SSD	Quantity	Part number	Description	1	P26938-K21	HPE 6.4TB NVMe Gen4 x8 High Perf Mixed Use AIC HHHL PM1735 SSD	Quantity	Part number	Description	1	P07943-B21	HPE Apollo 4200 Gen10 4LFF Rear Cage Kit	1	813546-B21	HPE 2nd Cage FIO Controller Mode for Rear Storage	Quantity	Part number	Description	2	P19974-K21	HPE 480GB SATA 6G Read Intensive LFF LPC 5300P SSD	Quantity	Part number	Description	2	P26936-K21	HPE 3.2TB NVMe Gen4 x8 High Perf Mixed Use AIC HHHL PM1735 SSD
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TABLE 2. HPE Apollo 4200 Gen10 Flex component guidelines for Commvault HyperScale 1.5 (continued)

Name	Guidelines												
Data Storage Options	One of the below supported data storage options must be included. Mixing data drive capacities within a node not supported. Drive quantity must be 6, 12, 18, or 24 per node. <table border="1"> <thead> <tr> <th>Part number</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>834028-K21</td> <td>HPE 8TB SATA 6G Midline 7.2K LFF (3.5in) LP 1yr Wty 512e Digitally Signed Firmware HDD</td> </tr> <tr> <td>P09161-K21</td> <td>HPE 10TB SATA 6G Midline 7.2K LFF (3.5in) LP 1yr Wty Helium 512e Digitally Signed Firmware HDD</td> </tr> <tr> <td>881787-K21</td> <td>HPE 12TB SATA 6G Midline 7.2K LFF (3.5in) LP 1yr Wty Helium 512e Digitally Signed Firmware HDD</td> </tr> <tr> <td>P09165-K21</td> <td>HPE 14TB SATA 6G Midline 7.2K LFF (3.5in) LP 1yr Wty Helium 512e Digitally Signed Firmware HDD</td> </tr> <tr> <td>P23449-K21</td> <td>HPE 16TB SATA 6G Business Critical 7.2K LFF (3.5in) LP 1yr Wty 512e ISE HDD</td> </tr> </tbody> </table>	Part number	Description	834028-K21	HPE 8TB SATA 6G Midline 7.2K LFF (3.5in) LP 1yr Wty 512e Digitally Signed Firmware HDD	P09161-K21	HPE 10TB SATA 6G Midline 7.2K LFF (3.5in) LP 1yr Wty Helium 512e Digitally Signed Firmware HDD	881787-K21	HPE 12TB SATA 6G Midline 7.2K LFF (3.5in) LP 1yr Wty Helium 512e Digitally Signed Firmware HDD	P09165-K21	HPE 14TB SATA 6G Midline 7.2K LFF (3.5in) LP 1yr Wty Helium 512e Digitally Signed Firmware HDD	P23449-K21	HPE 16TB SATA 6G Business Critical 7.2K LFF (3.5in) LP 1yr Wty 512e ISE HDD
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Optional I/O	The optional I/O add-on cards below are supported. <table border="1"> <thead> <tr> <th>Quantity</th> <th>Part number</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>P9M76A</td> <td>HPE StoreFabric SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter</td> </tr> <tr> <td>1</td> <td>Q0L12A</td> <td>HPE StoreFabric SN1600E 32Gb Dual Port Fibre Channel Host Bus Adapter</td> </tr> <tr> <td>1</td> <td>817753-B21</td> <td>HPE Ethernet 10/25Gb 2-port SFP28 MCX4121A-ACUT Adapter</td> </tr> </tbody> </table>	Quantity	Part number	Description	1	P9M76A	HPE StoreFabric SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter	1	Q0L12A	HPE StoreFabric SN1600E 32Gb Dual Port Fibre Channel Host Bus Adapter	1	817753-B21	HPE Ethernet 10/25Gb 2-port SFP28 MCX4121A-ACUT Adapter
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Transceivers and Network Cables	A minimum of four 10 Gb or higher speed network connections per HyperScale server are required. Transceivers and network cables are required for these server to network switch connections. The type and quantity of transceivers and cables required is dependent on planned implementation speed (10 Gb/25 Gb), switch type and medium type (copper or optical). For more information refer to the HPE Ethernet 10/25Gb Adapters QuickSpecs and the HPE Ethernet Transceivers and Cables QuickSpecs .												
HPE iLO Management	Required, HPE iLO Advanced license.												
Rail Kit	Any HPE rail kit supported with server platform.												
HPE Support	HPE Support is required.												

Note:

With the baseline configuration and Recommended Boot/Metadata configuration, 2 PCIe slots are available for Optional I/O.
 With the baseline configuration and Option-1 Boot/Metadata configuration, 2 PCIe slots are available for Optional I/O.
 With the baseline configuration and Option-2 Boot/Metadata configuration, 1 PCIe slot is available for Optional I/O.

HPE PROLIANT DL380 GEN10 FOR COMMVAULT HYPERSCALE 1.5

Baseline components

The components below are required in all configurations.

TABLE 3. HPE ProLiant DL380 Gen10 baseline components for Commvault HyperScale 1.5

Quantity	Part number	Description	Flex component	Notes
1	P19718-B21	HPE DL380 Gen10 12LFF NC CTO Svr		
1	P23549-L21	Intel Xeon Silver 4210R (2.4GHz/10-core/100W) FIO Processor Kit		
1	P23549-B21	Intel Xeon Silver 4210R (2.4GHz/10-core/100W) Processor Kit		
8	P00924-B21	HPE 32GB Dual Rank x4 DDR-2933 CAS-21-21-21 Registered Smart Memory Kit		
1	817753-B21	HPE Ethernet 10/25Gb 2-port SFP28 MCX4121A-ACUT Adapter		
1	P01366-B21	HPE 96W Smart Storage Battery (up to 20 Devices/145mm Cable) Kit		
1	804338-B21	HPE Smart Array P816i-a SR Gen10 (16 Internal Lanes/4GB Cache/SmartCache) 12G SAS Modular Controller		
1	817749-B21	HPE Ethernet 10/25Gb 2-port FLR-SFP28 MCX4121A-ACFT Adapter		
1	826687-B21	HPE DL38X Gen10 2SFF Premium HDD Front NVMe or Front/Rear SAS/SATA Kit		
*	*	Boot/Metadata	✓	Refer to Table 4
*	*	Data Storage Options	✓	Refer to Table 4
1	*	Optional I/O	✓	Refer to Table 4
*	*	Transceivers and Network Cables	✓	Refer to Table 4
*	*	Risers	✓	Refer to Table 4
*	*	Power Supply	✓	Refer to Table 4
1	*	Rail Kit	✓	Refer to Table 4
*	*	HPE iLO Management	✓	Refer to Table 4
*	*	HPE Support	✓	Refer to Table 4

*Refer to Table 4, HPE ProLiant DL380 Gen10 Flex component guidelines for Commvault HyperScale 1.5



Flex component guidelines

The guidelines below must be satisfied for each component category.

TABLE 4. HPE ProLiant DL380 Gen10 Flex component guidelines for Commvault HyperScale 1.5

Category name	Guidelines																																										
Boot/Metadata	<p>Separate Boot/Metadata is required for a DL380 Gen10 Commvault HyperScale Node. Two configurations are supported. The first configuration below is recommended and the second is optional. Configure either the recommended or the optional, not both.</p> <p>Recommended: All of the SKUs below are required:</p> <table border="1"> <thead> <tr> <th>Quantity</th> <th>Part number</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>870549-B21</td> <td>HPE DL38X Gen10 12Gb SAS Expander Card Kit with Cables</td> </tr> <tr> <td>1</td> <td>826686-B21</td> <td>HPE DL38X Gen10 4LFF Midplane SAS/SATA HDD kit</td> </tr> </tbody> </table> <p>Boot drives, quantity 2, select 480 GB SATA LFF SSDs from the supported drives below:</p> <table border="1"> <thead> <tr> <th>Quantity</th> <th>Part number</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>P19978-B21</td> <td>HPE 480GB SATA 6G Mixed Use LFF SCC 5300M SSD</td> </tr> </tbody> </table> <p>Metadata drives, quantity 1, select one 3.2 TB SAS SSD from the supported drives below:</p> <table border="1"> <thead> <tr> <th>Quantity</th> <th>Part number</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>P19917-B21</td> <td>HPE 3.2TB SAS 12G Mixed Use SFF SC PM1645a SSD</td> </tr> <tr> <td>1</td> <td>P21135-B21</td> <td>HPE 3.2TB SAS 12G Mixed Use SFF SC S5540 SSD</td> </tr> </tbody> </table> <p>Optional: Boot drives, quantity 2, select 480 GB SATA SFF SSDs from the supported drives below:</p> <table border="1"> <thead> <tr> <th>Quantity</th> <th>Part number</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>P18432-B21</td> <td>HPE 480GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Multi Vendor SSD</td> </tr> <tr> <td>2</td> <td>P19947-B21</td> <td>HPE 480GB SATA 6G Mixed Use SFF SC 5300M SSD</td> </tr> <tr> <td>2</td> <td>P09712-B21</td> <td>HPE 480GB SATA 6G Mixed Use SFF SC SM883 SSD</td> </tr> </tbody> </table> <p>Metadata drives, quantity 1, select one 3.2 TB PCIe NVMe SSD from the supported drives below:</p> <table border="1"> <thead> <tr> <th>Quantity</th> <th>Part number</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>P26936-B21</td> <td>HPE 3.2 TB NVMe Gen4 x8 High Performance Mixed Use AIC HHHL PM1735 SSD</td> </tr> </tbody> </table>	Quantity	Part number	Description	1	870549-B21	HPE DL38X Gen10 12Gb SAS Expander Card Kit with Cables	1	826686-B21	HPE DL38X Gen10 4LFF Midplane SAS/SATA HDD kit	Quantity	Part number	Description	2	P19978-B21	HPE 480GB SATA 6G Mixed Use LFF SCC 5300M SSD	Quantity	Part number	Description	1	P19917-B21	HPE 3.2TB SAS 12G Mixed Use SFF SC PM1645a SSD	1	P21135-B21	HPE 3.2TB SAS 12G Mixed Use SFF SC S5540 SSD	Quantity	Part number	Description	2	P18432-B21	HPE 480GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Multi Vendor SSD	2	P19947-B21	HPE 480GB SATA 6G Mixed Use SFF SC 5300M SSD	2	P09712-B21	HPE 480GB SATA 6G Mixed Use SFF SC SM883 SSD	Quantity	Part number	Description	1	P26936-B21	HPE 3.2 TB NVMe Gen4 x8 High Performance Mixed Use AIC HHHL PM1735 SSD
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Optional I/O	<p>The optional I/O add-on cards below are supported.</p> <table border="1"> <thead> <tr> <th>Quantity</th> <th>Part number</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>817753-B21</td> <td>HPE Ethernet 10/25Gb 2-port SFP28 MCX4121A-ACUT Adapter</td> </tr> <tr> <td>1</td> <td>P9D94A</td> <td>HPE StoreFabric SN1100Q 16Gb Dual Port Fibre Channel Host Bus Adapter</td> </tr> <tr> <td>1</td> <td>Q0L14A</td> <td>HPE StoreFabric SN1200E 16Gb Dual Port Fibre Channel Host Bus Adapter</td> </tr> <tr> <td>1</td> <td>P9M76A</td> <td>HPE StoreFabric SN1600Q 32Gb Dual Port FC Adapter</td> </tr> <tr> <td>1</td> <td>Q0L12A</td> <td>HPE StoreFabric SN1600E 32Gb Dual Port FC Adapter</td> </tr> </tbody> </table>	Quantity	Part number	Description	1	817753-B21	HPE Ethernet 10/25Gb 2-port SFP28 MCX4121A-ACUT Adapter	1	P9D94A	HPE StoreFabric SN1100Q 16Gb Dual Port Fibre Channel Host Bus Adapter	1	Q0L14A	HPE StoreFabric SN1200E 16Gb Dual Port Fibre Channel Host Bus Adapter	1	P9M76A	HPE StoreFabric SN1600Q 32Gb Dual Port FC Adapter	1	Q0L12A	HPE StoreFabric SN1600E 32Gb Dual Port FC Adapter																								
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Transceivers and Network Cables	<p>A minimum of four 10 Gb or higher speed network connections per HyperScale server are required. Transceivers and network cables are required for these server to network switch connections. The type and quantity of transceivers and cables required is dependent on planned implementation speed (10 Gb/25 Gb), switch type and medium type (copper or optical). For more information refer to the HPE Ethernet 10/25Gb Adapters QuickSpecs and the HPE Ethernet Transceivers and Cables QuickSpecs.</p>																																										
Risers	<p>With the Baseline components and Boot/Metadata configured, 1 PCIe slot is available on the Standard Primary riser for Optional I/O. If additional PCIe slots are required, a Secondary riser can be added to the configuration which provides 3 additional PCIe slots:</p> <table border="1"> <thead> <tr> <th>Part number</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>870548-B21</td> <td>HPE DL Gen10 x8/x16/x8 Riser Kit</td> </tr> </tbody> </table> <p>Fibre Channel adapters or additional Network adapters are supported for these PCIe slots.</p>	Part number	Description	870548-B21	HPE DL Gen10 x8/x16/x8 Riser Kit																																						
Part number	Description																																										
870548-B21	HPE DL Gen10 x8/x16/x8 Riser Kit																																										
Power Supply	Any HPE power supply supported with server platform. Dual power supplies provide the best redundancy.																																										
Rail Kit	Any HPE rail kit supported with server platform.																																										
HPE iLO Management	HPE iLO Advanced Management is required.																																										
HPE Support	HPE Support is required.																																										



HPE PROLIANT DL360 GEN10 FOR COMMVault HYPERSCALE 1.5

Baseline components

The components below are required in all configurations.

TABLE 5. HPE ProLiant DL360 Gen10 baseline components for Commvault HyperScale 1.5

Quantity	Part number	Description	Flex component	Notes
1	867958-B21	HPE ProLiant DL360 Gen10 4LFF Configure-to-order Server		
1	P02571-L21	HPE DL360 Gen10 Intel Xeon Silver 4208 (2.1GHz/8-core/85W) FIO Processor Kit		
1	P02571-B21	HPE DL360 Gen10 Intel Xeon Silver 4208 (2.1GHz/8-core/85W) Processor Kit		
4	P00924-B21	HPE 32GB (1x32GB) Dual Rank x4 DDR4-2933 CAS-21-21-21 Registered Smart Memory Kit		
1	804338-B21	HPE Smart Array P816i-a SR Gen10 (16 Internal Lanes/4GB Cache/SmartCache) 12G SAS Modular Controller		
1	P01366-B21	HPE 96W Smart Storage Battery (up to 20 Devices) with 145mm Cable Kit		
1	867972-B21	HPE DL360 Gen10 1SFF Rear SAS/SATA/UFF Backplane Kit		
1	867982-B21	HPE DL360 Gen10 Low Profile Riser Kit		
1	817718-B21	HPE Ethernet 10/25Gb 2-port SFP28 BCM57414 Adapter		
1	817709-B21	HPE Ethernet 10/25Gb 2-port FLR-SFP28 BCM57414 Adapter		
*	*	Boot/Metadata	✓	Refer to Table 6
4	*	Data Storage Options	✓	Refer to Table 6
N/A	*	Optional I/O	✓	Refer to Table 6
*	*	Transceivers and Network Cables	✓	Refer to Table 6
2	*	Power Supply	✓	Refer to Table 6
1	*	iLO Management	✓	Refer to Table 6
1	*	Rail Kit	✓	Refer to Table 6
*	*	HPE Support	✓	Refer to Table 6

* Refer to Table 6, HPE ProLiant DL360 Gen10 Flex component guidelines for Commvault HyperScale 1.5

Flex component guidelines

The guidelines below must be satisfied for each component category.

TABLE 6. HPE ProLiant DL360 Gen10 Flex component guidelines for Commvault HyperScale 1.5

Category name	Guidelines																								
Boot/Metadata	<p>Separate Boot/Metadata is required for a DL360 Gen10 Commvault HyperScale Node. Boot drives, quantity 1, select a 480 GB SATA SFF SSD from the supported drives below:</p> <table border="1"> <thead> <tr> <th>Quantity</th> <th>Part number</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>P18432-B21</td> <td>HPE 480GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Multi Vendor SSD</td> </tr> <tr> <td>1</td> <td>P19947-B21</td> <td>HPE 480GB SATA 6G Mixed Use SFF SC 5300M SSD</td> </tr> <tr> <td>1</td> <td>P09712-B21</td> <td>HPE 480GB SATA 6G Mixed Use SFF SC SM883 SSD</td> </tr> </tbody> </table> <p>Metadata drives, quantity 1, select one 1.6 TB PCIe NVMe SSD from the supported drives below:</p> <table border="1"> <thead> <tr> <th>Quantity</th> <th>Part number</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>P26934-B21</td> <td>HPE 1.6TB NVMe Gen4 x8 High Performance Mixed Use AIC HHHL PM1735 SSD</td> </tr> </tbody> </table> <p>Note: Only a single boot drive is supported due to SFF drive slot availability.</p>	Quantity	Part number	Description	1	P18432-B21	HPE 480GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Multi Vendor SSD	1	P19947-B21	HPE 480GB SATA 6G Mixed Use SFF SC 5300M SSD	1	P09712-B21	HPE 480GB SATA 6G Mixed Use SFF SC SM883 SSD	Quantity	Part number	Description	1	P26934-B21	HPE 1.6TB NVMe Gen4 x8 High Performance Mixed Use AIC HHHL PM1735 SSD						
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Data Storage Options	<p>One of the below supported data storage options must be included. Mixing data drive capacities within a node is not supported. Drive quantity must be 4 per DL360 Gen10 node.</p> <table border="1"> <thead> <tr> <th>Quantity</th> <th>Part number</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>4</td> <td>872491-B21</td> <td>HPE 4TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty 512e HDD</td> </tr> <tr> <td>4</td> <td>861750-B21</td> <td>HPE 6TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty 512e HDD</td> </tr> <tr> <td>4</td> <td>819203-B21</td> <td>HPE 8TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty 512e DS Firmware HDD</td> </tr> <tr> <td>4</td> <td>857648-B21</td> <td>HPE 10TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty Helium 512e DS Firmware HDD</td> </tr> <tr> <td>4</td> <td>881785-B21</td> <td>HPE 12TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty Helium 512e DS Firmware HDD</td> </tr> </tbody> </table> <p>Note: If 857648-B21 10 TB or 881785-B21 12 TB SATA HDDs are selected, the following must be included:</p> <table border="1"> <thead> <tr> <th>Quantity</th> <th>Part number</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>871246-B21</td> <td>HPE DL360 Gen10 High Performance Heat Sink Kit</td> </tr> </tbody> </table>	Quantity	Part number	Description	4	872491-B21	HPE 4TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty 512e HDD	4	861750-B21	HPE 6TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty 512e HDD	4	819203-B21	HPE 8TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty 512e DS Firmware HDD	4	857648-B21	HPE 10TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty Helium 512e DS Firmware HDD	4	881785-B21	HPE 12TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty Helium 512e DS Firmware HDD	Quantity	Part number	Description	1	871246-B21	HPE DL360 Gen10 High Performance Heat Sink Kit
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Quantity	Part number	Description																							
1	871246-B21	HPE DL360 Gen10 High Performance Heat Sink Kit																							
Optional I/O	Not supported. HPE ProLiant DL360 Gen10 with dual 2-port Ethernet cards lacks space required for optional I/O add-on cards.																								
Transceivers and Network Cables	A minimum of four 10 Gb or higher speed network connections per HyperScale server are required. Transceivers and network cables are required for these server to network switch connections. The type and quantity of transceivers and cables required is dependent on planned implementation speed (10 Gb/25 Gb), switch type and medium type (copper or optical). For more information refer to the HPE Ethernet 10/25Gb Adapters QuickSpecs and the HPE Ethernet Transceivers and Cables QuickSpecs .																								



TABLE 6. HPE ProLiant DL360 Gen10 Flex component guidelines for Commvault HyperScale 1.5 (continued)

Category name	Guidelines
Power Supply	Dual Power Supplies recommended. Any HPE power supply supported with server platform.
iLO Management	Required, HPE iLO Advanced license.
Rail Kit	Any HPE rail kit supported with server platform.
HPE Support	HPE Support is required

HPE APOLLO 4200 GEN10 FOR COMMVAULT HYPERSCALE X

Baseline components

The components below are required in all configurations. HPE Apollo 4200 Gen10 for Commvault HyperScale X nodes require 24 data drives are configured per node. Commvault licensing is per node for HyperScale X configurations.

TABLE 7. Baseline Components—HPE Apollo Gen10 4200 for Commvault HyperScale X

Quantity	Part number	Description	Flex component	Notes
1	P07244-B21	HPE Apollo 4200 Gen10 24LFF Configure-to-order Server		
1	P07907-L21	Intel Xeon Silver 4216 (2.1GHz/16-core/100W) FIO Processor Kit		
1	P07907-B21	Intel Xeon Silver 4216 (2.1GHz/16-core/100W) Processor Kit		
16	P00924-K21	HPE 32GB (1x32GB) Dual Rank x4 DDR4-2933 CAS-21-21-21 Registered Smart Memory Kit		
1	869083-B21	HPE Smart Array P816i-a SR Gen10 (16 Internal Lanes/4GB Cache/SmartCache) 12G SAS Modular LH Controller		
1	P01367-B21	HPE 96W Smart Storage Battery (up to 20 Devices) with 260mm Cable Kit		
2	817753-B21	HPE Ethernet 10/25Gb 2-port SFP28 MCX4121A-ACUT Adapter		
*	*	Boot/Metadata	✓	Refer to Table 8
24	*	Data Storage Options	✓	Refer to Table 8
*	*	Optional I/O	✓	Refer to Table 8
*	*	Transceivers and Network Cables	✓	Refer to Table 8
2	830272-B21	HPE 1600W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit		
1	*	Rail Kit	✓	Refer to Table 8
1	BD505A	HPE iLO Advanced 1-server License with 3yr Support on iLO Licensed Features		
*	*	HPE Support	✓	Refer to Table 8

* Refer to Table 8 HPE Apollo 4200 Gen10 for Commvault HyperScale X Flex components



Flex components

The guidelines below must be satisfied for each component category.

TABLE 8. HPE Apollo 4200 Gen10 for Commvault HyperScale X Flex components

Flex component	Guidelines																																																																		
Boot/Metadata	<p>Required. Two configurations are supported. The first configuration below is recommended and the second is optional. Configure either the recommended or the optional, not both.</p> <p>Recommended:</p> <p>All of the SKUs below are required:</p> <table border="1"> <thead> <tr> <th>Quantity</th> <th>Part number</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>830824-B21</td> <td>HPE Smart Array P408i-p SR Gen10 12G SAS PCIe Plug-in Controller</td> </tr> <tr> <td>1</td> <td>P14010-B21</td> <td>HPE Apollo 4200 Gen10 6SFF SAS/SATA Rear Drive Cage Kit</td> </tr> <tr> <td>1</td> <td>P09656-B21</td> <td>HPE Smart Array E/P SR FIO Controller Mode for Rear Storage</td> </tr> </tbody> </table> <p>Boot drives, quantity 2, select 480 GB SATA MU SFF SSDs from the supported drives below:</p> <table border="1"> <thead> <tr> <th>Quantity</th> <th>Part number</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>P18432-K21</td> <td>HPE 480GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Multi Vendor SSD</td> </tr> <tr> <td>2</td> <td>P19947-K21</td> <td>HPE 480GB SATA 6G Mixed Use SFF SC 5300M SSD</td> </tr> </tbody> </table> <p>Metadata drives, quantity 2, select one 6.4 TB SAS SSD and one 3.2 TB SAS SSD from the supported drives below:</p> <p>HPE 6.4TB SAS MU SFF SSDs:</p> <table border="1"> <thead> <tr> <th>Quantity</th> <th>Part number</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>P19919-K21</td> <td>HPE 6.4TB SAS 12G Mixed Use SFF SC PM1645a SSD</td> </tr> <tr> <td>1</td> <td>P21137-K21</td> <td>HPE 6.4TB SAS 12G Mixed Use SFF SC SS540 SSD</td> </tr> </tbody> </table> <p>HPE 3.2TB SAS MU SFF SSDs:</p> <table border="1"> <thead> <tr> <th>Quantity</th> <th>Part number</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>P19917-K21</td> <td>HPE 3.2TB SAS 12G Mixed Use SFF SC PM1645a SSD</td> </tr> <tr> <td>1</td> <td>P21135-K21</td> <td>HPE 3.2TB SAS 12G Mixed Use SFF SC SS540 SSD</td> </tr> </tbody> </table> <p>Optional:</p> <p>All of the SKUs below are required:</p> <table border="1"> <thead> <tr> <th>Quantity</th> <th>Part number</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>P07943-B21</td> <td>HPE Apollo 4200 Gen10 4LFF Rear Cage Kit</td> </tr> <tr> <td>1</td> <td>813546-B21</td> <td>HPE 2nd Cage FIO Controller Mode for Rear Storage</td> </tr> </tbody> </table> <p>Boot drives, quantity 2, select 480 GB SATA LFF SSDs from the supported drives below:</p> <table border="1"> <thead> <tr> <th>Quantity</th> <th>Part number</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>P19974-K21</td> <td>HPE 480GB SATA 6G Read Intensive LFF LPC 5300P SSD</td> </tr> </tbody> </table> <p>Metadata drives, quantity 2, select one 6.4 TB PCIe NVMe MU SSD and one 3.2 TB PCIe NVMe MU SSD from the supported drives below:</p> <p>HPE 6.4TB PCIe NVMe MU SSDs:</p> <table border="1"> <thead> <tr> <th>Quantity</th> <th>Part number</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>P26938-K21</td> <td>HPE 6.4TB NVMe Gen4 x8 High Perf Mixed Use AIC HHHL PM1735 SSD</td> </tr> </tbody> </table> <p>HPE 3.2TB PCIe NVMe MU SSDs:</p> <table border="1"> <thead> <tr> <th>Quantity</th> <th>Part number</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>P26936-K21</td> <td>HPE 3.2 TB NVMe Gen4 x8 High Perf Mixed Use AIC HHHL PM1735 SSD</td> </tr> </tbody> </table>	Quantity	Part number	Description	1	830824-B21	HPE Smart Array P408i-p SR Gen10 12G SAS PCIe Plug-in Controller	1	P14010-B21	HPE Apollo 4200 Gen10 6SFF SAS/SATA Rear Drive Cage Kit	1	P09656-B21	HPE Smart Array E/P SR FIO Controller Mode for Rear Storage	Quantity	Part number	Description	2	P18432-K21	HPE 480GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Multi Vendor SSD	2	P19947-K21	HPE 480GB SATA 6G Mixed Use SFF SC 5300M SSD	Quantity	Part number	Description	1	P19919-K21	HPE 6.4TB SAS 12G Mixed Use SFF SC PM1645a SSD	1	P21137-K21	HPE 6.4TB SAS 12G Mixed Use SFF SC SS540 SSD	Quantity	Part number	Description	1	P19917-K21	HPE 3.2TB SAS 12G Mixed Use SFF SC PM1645a SSD	1	P21135-K21	HPE 3.2TB SAS 12G Mixed Use SFF SC SS540 SSD	Quantity	Part number	Description	1	P07943-B21	HPE Apollo 4200 Gen10 4LFF Rear Cage Kit	1	813546-B21	HPE 2nd Cage FIO Controller Mode for Rear Storage	Quantity	Part number	Description	2	P19974-K21	HPE 480GB SATA 6G Read Intensive LFF LPC 5300P SSD	Quantity	Part number	Description	1	P26938-K21	HPE 6.4TB NVMe Gen4 x8 High Perf Mixed Use AIC HHHL PM1735 SSD	Quantity	Part number	Description	1	P26936-K21	HPE 3.2 TB NVMe Gen4 x8 High Perf Mixed Use AIC HHHL PM1735 SSD
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Data Storage Options	<p>Required. Quantity 24 must be configured. One of the below supported data storage options must be included. Mixing data drive capacities within a node is not supported.</p> <table border="1"> <thead> <tr> <th>Quantity</th> <th>Part number</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>24</td> <td>834031-K21</td> <td>HPE 8TB SAS 12G Midline 7.2K LFF (3.5in) LP 512e DS Signed FW HDD</td> </tr> <tr> <td>24</td> <td>P09149-K21</td> <td>HPE 10TB SAS 12G Midline 7.2K LFF (3.5in) LP 512e DS Signed FW HDD</td> </tr> <tr> <td>24</td> <td>881781-K21</td> <td>HPE 12TB SAS 12G Midline 7.2K LFF (3.5in) LP 512e DS Signed FW HDD</td> </tr> <tr> <td>24</td> <td>P09155-K21</td> <td>HPE 14TB SAS 12G Midline 7.2K LFF (3.5in) LP 512e DS Signed FW HDD</td> </tr> <tr> <td>24</td> <td>P23608-K21</td> <td>HPE 16TB SAS 12G Business Critical 7.2K LFF (3.5in) LP 512e ISE HDD</td> </tr> </tbody> </table>	Quantity	Part number	Description	24	834031-K21	HPE 8TB SAS 12G Midline 7.2K LFF (3.5in) LP 512e DS Signed FW HDD	24	P09149-K21	HPE 10TB SAS 12G Midline 7.2K LFF (3.5in) LP 512e DS Signed FW HDD	24	881781-K21	HPE 12TB SAS 12G Midline 7.2K LFF (3.5in) LP 512e DS Signed FW HDD	24	P09155-K21	HPE 14TB SAS 12G Midline 7.2K LFF (3.5in) LP 512e DS Signed FW HDD	24	P23608-K21	HPE 16TB SAS 12G Business Critical 7.2K LFF (3.5in) LP 512e ISE HDD																																																
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TABLE 8. HPE Apollo 4200 Gen10 for Commvault HyperScale X Flex components (continued)

Flex component	Guidelines								
Optional I/O	<p>The Optional I/O add-on cards below are supported.</p> <table border="1"> <thead> <tr> <th>Part number</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>817753-B21</td> <td>HPE Ethernet 10/25Gb 2-port SFP28 MCX4121A-ACUT Adapter</td> </tr> <tr> <td>P9M76A</td> <td>HPE StoreFabric SN1600Q 32Gb Dual Port FC Adapter</td> </tr> <tr> <td>Q0L12A</td> <td>HPE StoreFabric SN1600E 32Gb Dual Port FC Adapter</td> </tr> </tbody> </table> <p>Note: Two PCIe slots are available for Optional I/O when the Recommended Boot/Metadata configuration is used. Note: One PCIe slot is available for Optional I/O when the Optional Boot/Metadata configuration is used.</p>	Part number	Description	817753-B21	HPE Ethernet 10/25Gb 2-port SFP28 MCX4121A-ACUT Adapter	P9M76A	HPE StoreFabric SN1600Q 32Gb Dual Port FC Adapter	Q0L12A	HPE StoreFabric SN1600E 32Gb Dual Port FC Adapter
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Transceivers and Network Cables	A minimum of four 10 Gb or higher speed network connections per HyperScale server are required. Transceivers and network cables are required for these server to network switch connections. The type and quantity of transceivers and cables required is dependent on planned implementation speed (10 Gb/25 Gb), switch type and medium type (copper or optical). For more information refer to the HPE Ethernet 10/25Gb Adapters QuickSpecs and the HPE Ethernet Transceivers and Cables QuickSpecs .								
Rail Kit	Any HPE rail kit supported with server platform.								
HPE Support	HPE Support is required.								

HPE PROLIANT DL380 GEN10 FOR COMMVAULT HYPERSCALE X

Baseline components

The components below are required in all configurations. HPE ProLiant DL380 Gen10 for Commvault HyperScale X nodes require 12 data drives are configured per node. Commvault licensing is per node for HyperScale X configurations.

TABLE 9. HPE ProLiant DL380 Gen10 Baseline Components for Commvault HyperScale X

Quantity	Part number	Description	Flex component	Notes
1	P19718-B21	HPE DL380 Gen10 12LFF NC CTO Server		
1	P02495-L21	Intel Xeon Silver 4216 (2.1GHz/16-core/100W) FIO Processor Kit		
1	P02495-B21	Intel Xeon Silver 4216 (2.1GHz/16-core/100W) Processor Kit		
16	P00924-B21	HPE 32GB Dual Rank x4 DDR-2933 CAS-21-21-21 Registered Smart Memory Kit		
1	817753-B21	HPE Ethernet 10/25Gb 2-port SFP28 MCX4121A-ACUT Adapter		
1	P01366-B21	HPE 96W Smart Storage Battery (up to 20 Devices/145mm Cable) Kit		
1	804338-B21	HPE Smart Array P816i-a SR Gen10 (16 Internal Lanes/4GB Cache/SmartCache) 12G SAS Modular Controller		
1	817749-B21	HPE Ethernet 10/25Gb 2-port FLR-SFP28 MCX4121A-ACFT Adapter		
1	826687-B21	HPE DL38X Gen10 2SFF Premium HDD Front NVMe or Front/Rear SAS/SATA Kit		
*	*	Boot/Metadata	✓	Refer to Table 10
12	*	Data Storage Options	✓	Refer to Table 10
*	*	Optional I/O	✓	Refer to Table 10
*	*	Transceivers and Network Cables	✓	Refer to Table 10
*	*	Risers	✓	Refer to Table 10
2	*	Power Supply	✓	Refer to Table 10
1	BD505A	HPE iLO Advanced 1-server License with 3yr Support on iLO Licensed Features		
1	*	Rail Kit	✓	Refer to Table 10
*	*	HPE Support	✓	Refer to Table 10

* Refer to Table 10 HPE ProLiant DL380 Gen10 for Commvault HyperScale X Flex component



Flex component guidelines

The guidelines below must be satisfied for each component category.

TABLE 10. HPE ProLiant DL380 Gen10 for Commvault HyperScale X Flex component

Flex component	Guidelines																																										
Boot/Metadata	<p>Required. Two configurations are supported. The first configuration below is recommended and the second is optional. Configure either the recommended or the optional, not both.</p> <p>Recommended:</p> <p>Optional:</p> <p>All of the SKUs below are required:</p> <table border="1"> <thead> <tr> <th>Quantity</th> <th>Part number</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>870549-B21</td> <td>HPE DL38X Gen10 12Gb SAS Expander Card Kit with Cables</td> </tr> <tr> <td>1</td> <td>826686-B21</td> <td>HPE DL38X Gen10 4LFF Midplane SAS/SATA HDD kit</td> </tr> </tbody> </table> <p>Boot drives, quantity 2, select 480 GB SATA LFF SSDs from the supported drives below:</p> <table border="1"> <thead> <tr> <th>Quantity</th> <th>Part number</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>P19978-B21</td> <td>HPE 480GB SATA 6G Mixed Use LFF SCC 5300M SSD</td> </tr> </tbody> </table> <p>Metadata drives, quantity 2, select 3.2 TB SAS SSD from the supported drives below:</p> <table border="1"> <thead> <tr> <th>Quantity</th> <th>Part number</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>P19917-B21</td> <td>HPE 3.2TB SAS 12G Mixed Use SFF SC PM1645a SSD</td> </tr> <tr> <td>2</td> <td>P21135-B21</td> <td>HPE 3.2TB SAS 12G Mixed Use SFF SC SS540 SSD</td> </tr> </tbody> </table> <p>Optional:</p> <p>Boot drives, quantity 2, select 480 GB SATA SFF SSDs from the supported drives below:</p> <table border="1"> <thead> <tr> <th>Quantity</th> <th>Part number</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>P18432-B21</td> <td>HPE 480GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Multi Vendor SSD</td> </tr> <tr> <td>2</td> <td>P19947-B21</td> <td>HPE 480GB SATA 6G Mixed Use SFF SC 5300M SSD</td> </tr> <tr> <td>2</td> <td>P09712-B21</td> <td>HPE 480GB SATA 6G Mixed Use SFF SC SM883 SSD</td> </tr> </tbody> </table> <p>Metadata drives, quantity 2, select 3.2 TB PCIe NVMe SSD from the supported drives below:</p> <table border="1"> <thead> <tr> <th>Quantity</th> <th>Part number</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>P26936-B21</td> <td>HPE 3.2 TB NVMe Gen4 x8 High Performance Mixed Use AIC HHHH PM1735 SSD</td> </tr> </tbody> </table> <p>Note: With the Recommended Boot/Metadata configured, 1 PCIe slot is available on the Standard Primary riser for Optional I/O.</p> <p>Note: With the Optional Boot/Metadata configured no additional PCIe slots are available on the Standard Primary Riser for Optional I/O.</p> <p>Note: If additional PCIe slots are required, a Secondary riser can be added to the configuration which provides 3 additional PCIe slots. Refer to Risers Flex component below.</p>	Quantity	Part number	Description	1	870549-B21	HPE DL38X Gen10 12Gb SAS Expander Card Kit with Cables	1	826686-B21	HPE DL38X Gen10 4LFF Midplane SAS/SATA HDD kit	Quantity	Part number	Description	2	P19978-B21	HPE 480GB SATA 6G Mixed Use LFF SCC 5300M SSD	Quantity	Part number	Description	2	P19917-B21	HPE 3.2TB SAS 12G Mixed Use SFF SC PM1645a SSD	2	P21135-B21	HPE 3.2TB SAS 12G Mixed Use SFF SC SS540 SSD	Quantity	Part number	Description	2	P18432-B21	HPE 480GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Multi Vendor SSD	2	P19947-B21	HPE 480GB SATA 6G Mixed Use SFF SC 5300M SSD	2	P09712-B21	HPE 480GB SATA 6G Mixed Use SFF SC SM883 SSD	Quantity	Part number	Description	2	P26936-B21	HPE 3.2 TB NVMe Gen4 x8 High Performance Mixed Use AIC HHHH PM1735 SSD
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Configuration guide

TABLE 10. HPE ProLiant DL380 Gen10 for Commvault HyperScale X Flex component (continued)

Flex component	Guidelines
Power Supply	Dual Power Supplies recommended. Any HPE power supply supported with server platform. Refer to the HPE Power Advisor for wattage requirements.
Rail Kit	Any HPE rail kit supported with server platform.
HPE Support	HPE Support is required.

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