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Overview

Q0F50A is the HPE StoreEasy 1650 Expanded WSS2016 Storage. HPE StoreEasy 1650 Expanded Storage products offers revolutionary storage density, with more than double the storage capacity of competitors for addressing bulk file storage use cases in a 2U form factor. Eight or six-core processing (depending on model selected), up to 280TB internal data storage capacity, and ready for external expandability enhance this ultra-dense 2U storage solution for small, medium, or large IT environments. StoreEasy 1650 Expanded models come with Windows Storage Server 2016 pre-installed on two M.2 Solid State Disks in internal PCIe slot. The StoreEasy 1650 Expanded Storage is built on an [Apollo 4200 Gen9 Server](#) and includes a rail kit and cable management arm.

Quick Spec

Table 1 shows the quick spec.

Model	Q0F50A
Processor	Intel® Xeon® E5-2609v4(1.7GHz/8-core/20MB/85W) Processor
Memory	
Type	DDR4 Registered (RDIMM)
Maximum	24TB
Standard	16GB (2 x 8GB)
DIMM Sockets	16
Network Controller	
NIC ports	2
Controller	HPE 361i Adapter 1Gb Ethernet 2-port plus optional HPE Flexible LOM for 10GbE, 10Gb or 40Gb Infiniband
Dimensions	LFF Drives: 3.44 x 17.63 x 32 in (8.75 x 44.8 x 81.28 cm)

Configuration Information

Table 2 shows you how to configure an HPE StoreEasy 1650 storage.

Step 1: Choose a Base Model	
BTO models	
The StoreEasy 1650 Expanded comes with two Solid State Disks on a M.2 Enablement Kit in PCIe slot factory-configured as RAID 1 with the WSS2016 OS pre-installed (depending on model selected). The StoreEasy 1650 Expanded can ship with just the OS drives and no data drives. If data drives are needed, select the drives for factory integration.	
StoreEasy 1650 Expanded WSS2016 Storage	Q0F50A
NOTE: This model does not include pre-configured data drives. Data drives can be added for factory integration.	
Step 2: Choose required internal storage and optional external storage drives	
Drive Options	
Minimum Number of internal drives required	0
Maximum Number of internal drives allowed	28
StoreEasy 1650 Expanded LFF Drive Bundles	
HPE StoreEasy 16TB SAS LFF (3.5in) Low profile 4-pack HDD Bundle	N9Y43A

NOTE: Bundle contains 4 x HPE 4TB 12G SAS 7.2K rpm LFF (3.5-inch) Low Profile Midline 1yr Warranty Hard Drive (SKU# 833928-B21).	
HPE StoreEasy 32TB SAS LFF (3.5in) Low profile 4-pack HDD Bundle	N9Y45A
NOTE: Bundle contains 4 x HPE 8TB 12G SAS 7.2K rpm LFF (3.5-inch) Low Profile Midline 1yr Warranty Hard Drive (SKU#834031-B21).	
HPE StoreEasy 32TB SATA LFF (3.5in) Low profile 4-pack HDD	N9Y46A
NOTE: Bundle contains 4 x HPE 8TB 6G SATA 7.2K rpm LFF (3.5-inch) Low Profile Midline 1yr Warranty Hard Drive (SKU#834028-B21).	
HPE StoreEasy 40TB SAS LFF (3.5in) Low profile 4-pack HDD	Q0F61A
NOTE: Bundle contains 4 x HPE 10TB 12G SAS 7.2K rpm LFF (3.5-inch) Low Profile Midline 1yr Warranty Hard Drive (SKU#857646-B21).	
HPE StoreEasy 40TB SATA LFF (3.5in) Low Profile 4-pack HDD Bundle	Q0F62A
NOTE: Bundle contains 4 x HPE 10TB 6G SATA 7.2K rpm LFF (3.5-inch) Low Profile Midline 1yr Warranty Hard Drive (SKU#857650-B21).	
HPE StoreEasy 48TB SATA LFF (3.5in) Low Profile Carrier 4-pack HDD Bundle	Q2S06A
NOTE: Bundle contains 4 x HPE 12TB 6G SATA 7.2K rpm LFF (3.5-inch) LP 1yr Wty Helium 512e Digitally Signed Firmware HDD (SKU# 881787-B21).	
D3000 or D6000 Disk Enclosures The StoreEasy 1650 Expanded support all of the HPE D3000, D6000 and D6020 Disk Enclosures to add additional capacity. A Smart Array with external Ports must be added to the StoreEasy 1650 Expanded to add external Disk Enclosures.	
Step 3: Choose optional external storage controller	
SAS Controllers HPE Smart Array Controllers	
HPE Smart Array P441/4GB FBWC 12Gb 2-ports Ext SAS Controller	726825-B21
HPE Smart Host Bus Adapters	
HPE H241 12Gb 2-ports Ext Smart Host Bus Adapter	726911-B21
Step 4: Choose optional second Network Adapter	
NOTE: HPE 361i 1GbEthernet 2-port Network Adapter is included in all of the StoreEasy 1650 Expanded models. Recommended option for additional network connectivity is HPE Ethernet 10Gb 2-port 560SFP+ Adapter – SKU#665249-B21.	
1 Gigabit Ethernet adapters Broadcom chipset-based with RSS, VMQ, VMWNQ, VMDq, MSI-X, EEE features	
HPE Ethernet 1Gb 4-port 331T Adapter	647594-B21
HPE Ethernet 1Gb 2-port 332T Adapter	615732-B21
10/25 Gigabit Ethernet adapters	
NOTE: A minimum of two Gigabytes (2 GB) of system memory is required per each adapter.	
Intel chipset-based with RSS, VMQ, VMWNQ, VMDq, MSI-X, EEE features	
HPE Ethernet 10Gb 2-port 560SFP+ Adapter	665249-B21
HPE Ethernet 10Gb 2-port 561T Adapter	716591-B21
HPE Ethernet 10Gb 2-port 562SFP+ Adapter	727055-B21
QLogic chipset-based with RSS, VMQ, VMWNQ, VMDq, MSI-X features	
HPE Ethernet 10Gb 2-port 530SFP Adapter	652503-B21
HPE Ethernet 10Gb 2-port 530T Adapter	656596-B21
Mellanox chipset-based with RDMA, RSS, VMQ, VMWNQ, MSI-X, EEE features	
HPE Ethernet 10Gb 2-port 546SFP+ Adapter	779793-B21

HPE Ethernet 10/25Gb 2-port 640SFP28 Adapter	817753-B21
FlexibleLOM Adapters NOTE: FlexibleLOM Adapters provide flexibility in meeting networking needs now and adapt to any future requirements without using a standard PCIe slot. These options are field upgradeable, integrate seamlessly with the StoreEasy system architecture and form factor. Only one FlexibleLOM can be added to the StoreEasy 1650 Expanded.	
Emulex chipset-based with RDMA, RSS, VMQ, VMWVQ, MSI-X features	
HPE FlexFabric 10Gb 2-port 556FLR-SFP+ Adapter	727060-B21
Intel chipset-based with RSS, VMQ, VMWVQ, VMDq, MSI-X, EEE features	
HPE Ethernet 10Gb 2-port 561FLR-T Adapter	700699-B21
HPE Ethernet 10Gb 2-port 560FLR-SFP+ Adapter	665243-B21
HPE Ethernet 1Gb 4-port 366FLR Adapter	665240-B21
HPE Ethernet 10Gb 2-port 562FLR-SFP+ Adapter	727054-B21
Mellanox chipset-based with RDMA, RSS, VMQ, VMWVQ, MSI-X features	
HPE Ethernet 10Gb 2-port 546FLR-SFP+ Adapter	779799-B21
HPE Ethernet 10/25Gb 2-port 640FLR-SFP28 Adapter	817749-B21
QLogic chipset-based with RSS, VMQ, VMWVQ, VMDq, MSI-X features	
HPE FlexFabric 10Gb 2-port 533FLR-T Adapter	700759-B21
HPE FlexFabric 10Gb 2-port 534FLR-SFP+ Adapter	700751-B21
HPE FlexFabric 10Gb 4-port 536FLR-T Adapter	764302-B21
InfiniBand Adapters NOTE: Direct Attach Cable (DAC) for copper environments or fiber transceivers and cables for fiber-optic environments must be purchased separately.	
HPE InfiniBand FDR/Ethernet 10Gb/40Gb 2-port 544+QSFP Adapter	764284-B21
HPE InfiniBand FDR/Ethernet 10Gb/40Gb 2-port 544+FLR-QSFP Adapter	764285-B21
HPE InfiniBand QDR/Ethernet 10Gb 2-port 544+FLR-QSFP Adapter	764286-B21
HPE 100Gb 1-port OP101 QSFP28 x16 PCIe Gen3 with Intel Omni-Path Architecture Adapter	829335-B21
Step 5: Choose optional second processor (StoreEasy 1650 Expanded WSS2016 Storage model only)	
HPE StoreEasy 1650 Expanded E5-2609v4 Processor Upgrade	Q0F70A
NOTE: Q0F70A is not factory integrated on Q0F50A by default.	
Step 6: Choose optional extra memory kit	
NOTE: Add the same type memory to the product that is shipped standard with the product	
Registered DIMMs (RDIMMs) for E5-2600v4 Series	
HPE 8GB (1x8GB) Single Rank x8 DDR4-2400 CAS-17-17-17 Registered Memory Kit	805347-B21
HPE 16GB (1x16GB) Single Rank x4 DDR4-2400 CAS-17-17-17 Registered Memory Kit	805349-B21
NOTE: The above memory kit needs to be ordered only with StoreEasy 1650 Expanded WSS2016 CTO model	
Registered DIMMs (RDIMMs) for E5-2600v3 Series	
HPE 8GB (1x8GB) Single Rank x4 DDR4-2133 CAS-15-15-15 Registered Memory Kit	726718-B21
HPE 16GB (1x16GB) Dual Rank x4 DDR4-2133 CAS-15-15-15 Registered Memory Kit	726719-B21

NOTE: The above memory kit needs to be ordered only with StoreEasy 1650 Expanded models.

Step 7: Choose optional Security option

HPE Trusted Platform Module 2.0 Kit	745823-B21
HPE Trusted Platform Module Option	488069-B21

Step 8: Choose optional System Recovery option

HPE StoreEasy XX50 WSS2016 Recovery Software Kit	Q0F58A
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Get More Information

Do you have any question about the Q0F50A?

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Specification

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Memory	
Type	DDR4 Registered (RDIMM)
Maximum	24TB
Standard	16GB (2 x 8GB)
DIMM Sockets	16
Network Controller	
NIC ports	2
Controller	HPE 361i Adapter 1Gb Ethernet 2-port plus optional HPE Flexible LOM for 10GbE, 10Gb or 40Gb Infiniband
Dimensions	LFF Drives: 3.44 x 17.63 x 32 in (8.75 x 44.8 x 81.28 cm)
Internal Drive Support	Twenty eight 3.5" (Large Form Factor) hot-plug drive bays (24 in front and 4 in rear), 2 x Solid State Disks on M.2 Enablement Kit in rear PCIe slot used for OS drives
Expansion Slots	4x PCIe
Power	2 x 800W Platinum
Form Factor	2U rack
Operating System	Microsoft® Windows Storage Server 2016, Standard Edition

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