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Overview

Q2P71A is the HPE StoreEasy 1660 Performance Storage. HPE StoreEasy 1660 Storage products deliver high capacity and drives down your cost per GB. Four or six-core processing (depends on model selected), up to 16 LFF hot-plug drive slots, and ready for external expandability enhance this ultra-dense 2U shared storage solution for small, medium, or large IT environments. HPE StoreEasy 1660 models come with Windows Storage Server 2016 Standard Edition OS pre-installed from the factory on two M.2 Solid State Disks. The HPE StoreEasy 1660 is built on a [ProLiant DL380 Gen 10 Server](#) and includes a rail kit.

Quick Spec

Table 1 shows the quick spec of HPE StoreEasy 1660 Storage.

Model	HPE StoreEasy 1660 Storage
Processor	Performance Model only: Intel® Xeon-Silver 4112 (2.6GHz/4-core/85W) Processor All others models: Intel® Xeon-Bronze 3104 (1.7GHz/6-core/85W) Processor
Memory	
Type	DDR4-2666 CAS-19-19-19 Registered (RDIMM)
Maximum	24TB (Limit based on operating system license - WSS2016)
Standard	16GB (1 x 16GB)
DIMM Sockets	24
Network Controller	
NIC ports	4
Controller	1Gb Ethernet 4-port
Dimensions	LFF Drives: 8.73 x 44.54 x 73.02 cm 3.44 x 17.54 x 28.75 in

Configuration Information

Table 2 shows you how to configure an HPE StoreEasy 1660 storage.

Step 1: Choose an HPE StoreEasy 1660 model	
BTO models	
HPE StoreEasy 1660 Pre-configured Build-to-Order (BTO) models come with factory-installed data drives and the Microsoft Windows Storage Server 2016 Standard Edition operating system pre-installed on 2 x SFF Solid State Disk (SSD) drives on a M.2 card in rear PCIe slot.	
HPE StoreEasy 1660 16TB SAS Storage	Q2P73A
NOTE: (8 x 2TB SAS 12G Midline 7.2K LFF Digitally Signed Firmware HDDs pre-installed in front slots, 4 open LFF slots).	
HPE StoreEasy 1660 32TB SAS Storage	Q2P74A
NOTE: (8 x 4TB SAS 12G Midline 7.2K LFF 512e Digitally Signed Firmware HDDs pre-installed in front slots, 4 open LFF slots).	
HPE StoreEasy 1660 64TB SAS Storage	Q2P75A
NOTE: (8 x 8TB SAS 12G Midline 7.2K rpm LFF 512e Helium Digitally Signed Firmware HDDs pre-installed in front slots, 4 open LFF slots). NOTE: Model names are based on raw storage capacity, not available user storage. NOTE: When adding drives to the any of the 4 open LFF slots for the models above, Hewlett Packard Enterprise recommends as a best practice to use all internal data drives of the same type and capacity. NOTE: All options in steps 2 to 9 of Configure-to-Order models are available for pre-configured BTO models. Ordered options ship separately and are not factory integrated.	

CTO models

The HPE StoreEasy 1660 models Configure-to-Order (CTO) models come with factory-installed data drives and the Microsoft Windows Storage Server 2016 Standard Edition operating system pre-installed on 2 x SFF Solid State Disk (SSD) drives on a M.2 card in rear PCIe slot. The HPE StoreEasy 1660 CTO models can ship with just the OS drives and no factory installed data drives. If data drives are needed, select drives/drive bundles below for factory integration.

HPE StoreEasy 1660 Performance Storage	Q2P71A
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HPE StoreEasy 1660 Storage	Q2P72A
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NOTE: Hewlett Packard Enterprise recommends as a best practice that all internal data drives for the CTO models be the same type and capacity.

Step 2: Choose required internal storage drives**Drive Options**

Minimum Number of internal drives required	0
Maximum Number of internal drives allowed	16 (with optional mid-chassis drive cage)

HPE StoreEasy 1660 LFF Drive Bundles

HPE 40TB SAS LFF Smart Carrier 4-pack HDD Bundle	Q0F60A
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NOTE: Bundle contains 4 x HPE 10TB 12G SAS 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Wty Digitally Signed Firmware HDD (SKU#[857644-B21](#)).

HPE 32TB SAS LFF Smart Carrier 4-pack HDD Bundle	N9Y12A
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NOTE: Bundle contains 4 x HPE 8TB 12G SAS 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Wty Digitally Signed Firmware HDD (SKU# 861590-B21).

HPE 24TB SAS LFF Smart Carrier 4-pack HDD Bundle	Q2P82A
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NOTE: Bundle contains 4 x HPE 6TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty 512e Digitally Signed Firmware HDD (SKU#[861754-B21](#)).

HPE 16TB SAS LFF Smart Carrier 4-pack HDD Bundle	Q2P81A
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NOTE: Bundle contains 4 x HPE 4TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty 512e Digitally Signed Firmware HDD (SKU# 861756-B21).

HPE 8TB SAS LFF Smart Carrier 4-pack HDD Bundle	Q2P80A
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NOTE: Bundle contains 4 x HPE 2TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty Digitally Signed Firmware HDD (SKU#[872485-B21](#)).

HPE Drive options (The following options are applicable for internal storage drives)

SmartCache Kit

HPE 1.6TB LFF Smart Carrier Converter Smart Cache Kit	Q2P86A
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SSDs

HPE 960GB SATA Read Intensive LFF SCC DS SSD	P09689-B21
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HPE 1.92TB SATA Read Intensive LFF SCC DS SSD	P09693-B21
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HPE 1.92TB SATA Mixed Use LFF SCC DS SSD	P09724-B21
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HPE 960GB SATA Mixed Use LFF SCC DS SSD	P09718-B21
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HPE 480GB SATA Mixed Use LFF SCC DS SSD	P07924-B21
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HPE 800GB SAS Mixed Use LFF SCC DS SSD	P04529-B21
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HDDs

HPE 2TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty Digitally Signed Firmware HDD	872485-B21
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HPE 4TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty Digitally Signed Firmware HDD	872487-B21
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HPE 6TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty 512e HDD	861754-B21
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HPE 8TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty 512e Digitally Signed Firmware HDD	819201-B21
HPE 10TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty Helium 512e Digitally Signed Firmware HDD	857644-B21
HPE 12TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty Helium 512e Digitally Signed Firmware HDD	881779-B21
HPE 1TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty HDD	861691-B21
HPE 2TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty Digitally Signed Firmware HDD	872489-B21
HPE 4TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty Digitally Signed Firmware HDD	872491-B21
HPE 6TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty 512e HDD	861750-B21
HPE 8TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty 512e Digitally Signed Firmware HDD	819203-B21
HPE 10TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty Helium 512e Digitally Signed Firmware HDD	857648-B21
HPE 12TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty Helium 512e Digitally Signed Firmware HDD	881785-B21
Step 3: Choose optional mid-chassis 4LFF drive cage	
HPE StoreEasy 1660 4LFF Midplane Drive Cage	Q2P93A
NOTE: Expands the number of Large Form Factor (3.5") drive slots from 12 to 16.	
Step 4: Choose optional external storage controller to connect to external storage enclosures	
HPE Smart Array SAS Controllers	
HPE Smart Array E208e-p SR Gen10 (8 External Lanes/No Cache) 12G SAS PCIe Plug-in Controller	804398-B21
HPE Smart Array P408e-p SR Gen10 (8 External Lanes/4GB Cache) 12G SAS PCIe Plug-in Controller	804405-B21
HPE Smart Array SR Secure Encryption (Data at Rest Encryption/per Server Entitlement) E-LTU	Q2F26AAE
Step 5: Choose optional second Network Adapter	
PCIe Network Adapter	
HPE StoreEasy 1GbE 2-port 332T Adapter	Q2P90A
HPE StoreEasy 10GbE 2-port 530T Adapter	Q2P91A
HPE StoreEasy 10GbE 2-port 530SFP+ Adapter	Q2P92A
FlexLOM Network Adapters	
HPE Ethernet 1Gb 4-port 366FLR Adapter	665240-B21
HPE Ethernet 10Gb 2-port 562FLR-SFP+ Adapter	727054-B21
HPE Ethernet 10Gb 2-port 535FLR-T Adapter	817721-B21
Step 6: Choose optional Riser Kit	
HPE DL Gen10 x8/x16/x8 Riser Kit	870548-B21
NOTE: The Riser Kit also requires the HPE StoreEasy 1660 Xeon-Silver 4112 or Xeon-Bronze 3104 Performance Kit to be installed. The Riser Kit expands the number of available PCIe slots to 5.	
Step 7: Choose optional Performance Kit	
HPE StoreEasy 1X60 Intel Xeon 4112 Performance Kit	Q2P88A
NOTE: The above Performance Kit can only be ordered with the HPE StoreEasy 1660 Performance model (SKU# Q2P71A). The kit contains one Xeon-Silver 4122 processor and one 16GB Dual Rank x8 DDR4-2666 CAS-19-19-19 RDIMM.	
HPE StoreEasy 1X60 Intel Xeon 3104 Performance Kit	Q2P89A

NOTE: The above Performance Kit can be ordered with all HPE StoreEasy 1660 models except the HPE StoreEasy 1660 Performance model. The kit contains one Xeon-Bronze 3104 processor and one 16GB Dual Rank x8 DDR4-2666 CAS-19-19-19 RDIMM.

Step 8: Choose optional extra memory kit

HPE 16GB (1x16GB) Dual Rank x8 DDR4-2666 CAS-19-19-19 Registered Smart Memory Kit	835955-B21
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NOTE: There are 12 DIMM slots per processor for a total maximum of 24 DIMM slots. All HPE StoreEasy 1660 models come with one processor and one 16GB DIMM standard.

Step 9: Choose optional System Recovery option

HPE StoreEasy XX60 Recovery Software Media Kit	Q2P95A
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Get More Information

Do you have any question about the Q2P71A?

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Specification

HPE StoreEasy 1660 Storage Specification	
Processor	1 x Intel® Xeon-Silver 4112 (2.6GHz/4-core/85W) or Intel® Xeon-Bronze 3104 (1.7GHz/6-core/85W); 2ndprocessor optional NOTE: The Xeon-Silver 4112 processor is only available on the HPE StoreEasy 1660 Performance Storage model (SKU# Q2P71A).
Memory	16GB (1 x HPE 16GB Dual Rank x8 DDR4-2666 CAS-19-19-19 Registered Smart Memory)
Storage Controller	HPE Smart Array P816i-a SR Gen10 (16 Internal Lanes/4GB Cache/SmartCache) 12G SAS Modular Controller for data drives HPE Smart Array S100i SR Gen10 SW RAID for OS drives only
Internal Drive Support	12 LFF (3.5") hot-plug drive bays in front, optional 4LFF hot-plug mid-chassis drive cage
Network Port(s)	4 x 1GbE; optional FlexLOM adapter or PCIe NICs
Expansion Slots	3x PCIe; optional 3 slot secondary riser NOTE: One PCIe slot occupied by M.2 SSD card.
Security	Trusted Platform Module 2.0 and 2U Lockable Security Bezel
Power	2 x 800W Platinum
Cooling	6 hot-plug, high-performance redundant fans
Form Factor	2U rack
Operating Systems	Microsoft® Windows Storage Server 2016, Standard Edition
Licenses	HPE iLO Advanced Premium Security Edition License with 1yr Support on Licensed Features
Dimensions	LFF Drives: 8.73 x 44.54 x 73.02 cm 3.44 x 17.54 x 28.75 in
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 VAC) for China Only For 500W Power Supply: 1979 BTU/hr (at 100 VAC), 1911 BTU/hr (at 200 VAC), 1965 BTU/hr (at 240 VAC) for China Only

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