

### Overview

#### HPE Flash Media Kits

Hewlett Packard Enterprise provides several high performance Flash Media kits for customers who require boot from flash solutions. Form factors include USB Key, SD Card and MicroSD Card allowing the flexibility to support VMWare Hypervisors and direct OS boot for Windows2012 Server and Linux across HPE ProLiant portfolio.

HPE Flash Media kits optimized for VMWare Hypervisors:

- HPE 8GB USB Enterprise Mainstream Flash Media Drive Key Kit
- HPE 8GB SD Enterprise Mainstream Flash Media Kit
- HPE 8GB microSD Enterprise Mainstream Flash Media Kit
- HPE Dual 8GB microSD Enterprise Midline USB Kit
- HPE 32GB SD enterprise Mainstream Flash Media Kit
- HPE 32GB microSD Enterprise Mainstream Flash Media Kit

HPE Flash Media kits optimized for Windows2012 and Linux boot:

- HPE 32GB SD Enterprise Mainstream Flash Media Kit
- HPE 32GB microSD Enterprise Mainstream Flash Media Kit

#### HPE 8GB MicroSD Enterprise Performance Flash Media Kit



### What's New

- 32GB SD and MicroSD support for VMware

### Models

#### HPE Flash Media Kits for HPE Flash Media Kits for USB Drives

##### USB Drives

HP 8GB USB Enterprise Mainstream Flash Media Drive Key Kit

737953-B21

HP Dual 8GB microSD Enterprise Midline USB Kit

741279-B21

**NOTE: This device is only supported in UEFI mode. There is no support for legacy BIOS mode.**

## Overview

**NOTE:** Supported on Gen9 ProLiant servers only.

### **HPE Enterprise Mainstream Flash Media Kits for Memory Cards**

HP 8GB SD Enterprise Mainstream Flash Media Kit	726113-B21
HP 8GB microSD Enterprise Mainstream Flash Media Kit	726116-B21
HP 32GB SD Enterprise Mainstream Flash Media Kit	700136-B21
HP 32GB microSD Enterprise Mainstream Flash Media Kit	700139-B21

## Compatibility

### Compatibility

**HPE 8GB USB Enterprise** **NOTE:** This is a list of supported servers. Some may be discontinued.

#### Mainstream Flash Media

##### Drive Key Kit

(PN 737953-B21)

##### ProLiant BL (BladeSystem):

- HPE ProLiant BL420c Gen8
- HPE ProLiant BL460c Gen8
- HPE ProLiant BL465c Gen8
- HPE ProLiant BL620c G7
- HPE ProLiant BL660c Gen8
- HPE ProLiant BL680c G7
- HPE ProLiant BL685c G7

##### ProLiant DL (rack-optimized):

- HPE ProLiant DL160 Gen8
- HPE ProLiant DL320e Gen8
- HPE ProLiant DL320e Gen8 v2
- HPE ProLiant DL360p Gen8
- HPE ProLiant DL380p Gen8
- HPE ProLiant DL385p Gen8
- HPE ProLiant DL560 Gen8
- HPE ProLiant DL580 G7
- HPE ProLiant DL585 G7

##### ProLiant ML (expansion-optimized):

- HPE ProLiant ML310e Gen8
- HPE ProLiant ML310e Gen8 v2
- HPE ProLiant ML350e Gen8
- HPE ProLiant ML350p Gen8

##### ProLiant SL (Scalable System):

- HPE ProLiant SL210t Gen8
- HPE ProLiant SL230s Gen8
- HPE ProLiant SL250s Gen8
- HPE ProLiant SL270s Gen8

##### ProLiant MicroServer:

- HPE ProLiant MicroServer Gen8

**HPE Dual 8GB microSD** **NOTE:** This is a list of supported servers. Some may be discontinued.

#### Enterprise Midline

##### USB Kit

## Compatibility

(PN 741279-B21)

### ProLiant BL (BladeSystem):

- HPE ProLiant BL460c Gen9
- HPE ProLiant WS460c Gen9
- HPE ProLiant BL660c Gen9

### ProLiant DL (rack-optimized):

- HPE ProLiant DL60 Gen9
- HPE ProLiant DL80 Gen9
- HPE ProLiant DL120 Gen9
- HPE ProLiant DL160 Gen9
- HPE ProLiant DL180 Gen9
- HPE ProLiant DL360 Gen9
- HPE ProLiant DL380 Gen9
- HPE ProLiant DL560 Gen9
- HPE ProLiant DL580 Gen9

### ProLiant ML (expansion-optimized):

- HPE ProLiant ML110 Gen9
- HPE ProLiant ML150 Gen9
- HPE ProLiant ML350 Gen9

### ProLiant XL (Scalable System):

- HPE ProLiant XL230a Gen9
- HPE ProLiant XL230b Gen9
- HPE ProLiant XL250a Gen9

**HPE 8GB SD Enterprise** **NOTE:** This is a list of supported servers. Some may be discontinued.**Mainstream Flash Media****Kit**

(PN 726113-B21)

### ProLiant DL (rack-optimized):

- HPE ProLiant DL160 Gen8
- HPE ProLiant DL320e Gen8
- HPE ProLiant DL360e Gen8
- HPE ProLiant DL360p Gen8
- HPE ProLiant DL380e Gen8
- HPE ProLiant DL380p Gen8
- HPE ProLiant DL385p Gen8
- HPE ProLiant DL580 G7
- HPE ProLiant DL585 G7

### ProLiant ML (expansion-optimized):

- HPE ProLiant ML310e Gen8
- HPE ProLiant ML350e Gen8
- HPE ProLiant ML350e Gen8 v2

## Compatibility

- HPE ProLiant ML350p Gen8

**HPE 8GB microSD Enterprise Mainstream Flash Media Kit**  
(PN 726116-B21)

**NOTE:** This is a list of supported servers. Some may be discontinued.

**ProLiant BL (BladeSystem):**

- HPE ProLiant BL420c Gen8
- HPE ProLiant BL460c Gen8
- HPE ProLiant BL465c Gen8
- HPE ProLiant BL620c G7
- HPE ProLiant BL660c Gen8
- HPE ProLiant BL680c G7
- HPE ProLiant BL685c G7

**ProLiant DL (rack-optimized):**

- HPE ProLiant DL320e Gen8 v2
- HPE ProLiant DL560 Gen8

**ProLiant ML (expansion-optimized):**

- HPE ProLiant ML310e Gen8 v2

**ProLiant SL (Scalable System):**

- HPE ProLiant SL230s Gen8
- HPE ProLiant SL250s Gen8
- HPE ProLiant SL270s Gen8

ProLiant MicroServer:

- HPE ProLiant MicroServer Gen8

**HPE 32GB SD Enterprise Mainstream Flash Media Kit**  
(PN 700136-B21)

**ProLiant DL (rack-optimized):**

- HPE ProLiant DL160 Gen8
- HPE ProLiant DL320e Gen8
- HPE ProLiant DL360e Gen8
- HPE ProLiant DL360p Gen8
- HPE ProLiant DL380e Gen8
- HPE ProLiant DL380p Gen8
- HPE ProLiant DL385p Gen8

**ProLiant ML (expansion-optimized):**

- HPE ProLiant ML310e Gen8
- HPE ProLiant ML350e Gen8
- HPE ProLiant ML350e Gen8 v2

## Compatibility

- HPE ProLiant ML350p Gen8

### HPE 32GB microSD

#### Enterprise Mainstream

#### Flash Media Kit

(PN 700139-B21)

**NOTE:** This is a list of supported servers. Some may be discontinued.

#### ProLiant BL (BladeSystem):

- HPE ProLiant BL420c Gen8
- HPE ProLiant BL460c Gen8
- HPE ProLiant BL465c Gen8
- HPE ProLiant BL660c Gen8

#### ProLiant DL (rack-optimized):

- HPE ProLiant DL560 Gen8

#### ProLiant SL (Scalable System):

- HPE ProLiant SL230s Gen8
- HPE ProLiant SL250s Gen8
- HPE ProLiant SL270s Gen8

#### ProLiant MicroServer:

- HPE ProLiant MicroServer Gen8

#### WorkStation Blade:

- HPE ProLiant WS460c Gen8

## Standard Features

**Why HPE Flash Media?** HPE Flash media delivers blazing performance by providing solid state technology to increase bandwidth for both operating system booting and virtualized environments.

HPE tests and qualifies these devices using the highest industry flash technology that provides a higher level of performance and longer endurance characteristics at an enterprise level. Each device undergoes rigorous performance testing, software validation and strict revision control to verify the highest level of quality and reliability while running on HPE ProLiant Servers. Form factors including USB Key, SD Card, and MicroSD Card are offered allowing the flexibility to support direct OS boot or virtualization across the HPE ProLiant portfolio.

**Read/Write Performance** HPE Flash Media products offer superior performance with greater than 10+ MB/second Read Transfer Rate, and 5+ MB/second Write Transfer Rate.

**Power** A typical flash media device draws 1W versus 18W total power on 2 x 146GB SAS 10K SFF hard drives in a RAID configuration.

### OS Support

**For all HPE 8GB Flash Media devices including:**

HPE 8GB USB Enterprise Mainstream Flash Media Drive Key Kit  
HPE Dual 8GB microSD Enterprise Midline USB Kit

**NOTE: This device is only supported in UEFI mode. There is no support for legacy BIOS mode.**

HPE 8GB SD Enterprise Mainstream Flash Media Kit  
HPE 8GB microSD Enterprise Mainstream Flash Media Kit

- VMware ESX Server 3.5 Update 4 Build 153875 (30 Mar 2009)
- VMware ESX Server 3.5 Update 5 Build 207095 (03 Dec 2009)
- VMware vSphere 4.0 (May 20, 2009)
- VMware ESX 4.0 Build 164009 (21 May 2009)
- VMware ESX 4.0 Update 1 Build 208167 (19 Nov 2009)
- VMware ESXi 4.1
- VMware ESXi 5.0
- VMware ESXi 5.1
- VMware ESXi 5.5
- VMware ESXi 6.0

**NOTE: Intelligent Provisioning not supported on all HPE 8GB Flash Media devices.**

**For all HPE 32GB Flash Media devices including:**

HPE 32GB SD Enterprise Mainstream Flash Media Kit  
HPE 32GB microSD Enterprise Mainstream Flash Media Kit

- Windows Server 2012 Standard Server
- Windows Server 2012 Standard Server Core
- Windows Server 2012 Datacenter Server
- Windows Server 2012 Datacenter Server Core
- Windows Server 2012 Hyper-V Server
- RHEL 6.3 (64 bit)
- RHEL 6.4 (64 bit)
- RHEL 7.0
- SLES11 SP2 (32 & 64 bit)

## Standard Features

- SLES11 SP3 (32 & 64 bit)
- SLES 12
- Ubuntu 12.04 (32 & 64 bit)
- VMware ESXi 5.1 Update 3
- VMware ESXi 5.5 Update 3
- VMware ESXi 6.0

### Warranty

HPE Flash Media Kits have a 1 year limited warranty regardless of the warranty period for the system in which they are installed.

For more details on HPE Qualified Options Limited Warranty visit:

**<http://h18004.www1.hp.com/products/servers/platforms/warranty/index.html>**

## Service and Support

### Service and Support

**NOTE:** HPE Flash Media Kits are supported as a part of the HPE Server Infrastructure. No separate care packs are needed to be purchased.

#### **HPE Technology Services for Industry Standard Servers**

HPE Technology Services delivers confidence, reduces risk and helps customers realize agility and stability. Connect to HPE to help prevent problems and solve issues faster. Our support technology lets you to tap into the knowledge of millions of devices and thousands of experts to stay informed and in control, anywhere, any time.

#### **Protect your business beyond warranty with HPE Care Pack Services**

HPE Care Pack Services enable you to order the right service level, length of coverage and response time as you purchase your new server, giving you full entitlement for the term you select.

### Get connected to HPE to improve your support experience

Connecting products to Hewlett Packard Enterprise will help prevent problems with 24x7 monitoring, prefailure alerts, automatic call logging, and parts dispatch. With Connected products, you can have a dashboard to manage your IT anywhere, anytime, from any device.

### Parts and Materials

Hewlett Packard Enterprise will provide HPE-supported replacement parts and materials necessary to maintain the covered hardware product in operating condition, including parts and materials for available and recommended engineering improvements.

Parts and components that have reached their maximum supported lifetime and/or the maximum usage limitations as set forth in the manufacturer's operating manual, product QuickSpecs, or the technical product data sheet will not be provided, repaired, or replaced as part of these services.

The defective media retention service feature option applies only to Disk or eligible SSD/Flash Drives replaced by HPE due to malfunction.

### Customer Technical Training

In today's cost-conscious business environment, IT professionals, developers, consultants and users face an interesting challenge: how to keep up with the latest technologies and expand important skills while delivering profitable results on current projects. To help address this challenge, Hewlett Packard Enterprise offers innovative training solutions that help keep you up-to-date on virtualization, server, storage, Insight Control, Citrix, Microsoft® and open source/Linux-related topics-while spending less time away from business-critical activities.

### HPE Services Awards

HPE Technology Services continues to be recognized for service and support excellence by customers, partners, industry organizations and publications around the world. Recent honors and award reflect our services team's dedications, technical expertise, professionalism and uncompromising commitment to customer satisfaction.

### Additional Services Information

To learn more on HPE ProLiant servers, HPE BladeSystem servers and HPE storage products, please contact your Hewlett Packard Enterprise sales representative or Hewlett Packard Enterprise Authorized Channel Partner. Or visit: <http://www.hp.com/services/proliant> or <http://www.hp.com/services/bladesystem> or <http://www.hp.com/services/storage>

## Technical Specifications

<b>HPE Dual 8GB microSD Enterprise Midline USB Kit</b> 741279-B21	<b>Usable Capacity</b>	8GB
	<b>Performance</b>	43+ MB/second Read Transfer Rate, 43+ MB/second Write Transfer Rate
	<b>Class</b>	Class 10
	<b>Form factor</b>	63mm(L) x 20mm(W) x 9.3mm(H)
	<b>Voltage</b>	4.0V (min) – 6.0V (max)
	<b>Compliance</b>	USB specification 2.0
	<b>Operating Temperature</b>	0/70°C (Operational), -25°C/85°C (non-operational)
<b>HPE 8GB USB Enterprise Mainstream Flash Media Drive Key Kit</b> 737953-B21	<b>Usable Capacity</b>	8GB
	<b>Performance</b>	20+ MB/second Read Transfer Rate, 17+ MB/second Write Transfer Rate
	<b>Form factor</b>	57.24mm(L) x 17.29mm(W) x 9.5mm(H)
	<b>Voltage</b>	4.5V (min) - 5.5V (max)
	<b>Compliance</b>	USB specification revision 1.1 and 2.0
	<b>Operating Temperature</b>	0/70°C (Operational), -25°C/85°C (non-operational)
<b>HPE 8GB SD EM Flash Media Kit</b> 726113-B21	<b>Usable Capacity</b>	8GB
	<b>Performance</b>	21+ MB/second Read Transfer Rate, 17+ MB/second Write Transfer Rate
	<b>Class</b>	Class 10
	<b>Form factor</b>	32mm(L) x 24mm(W) x 2.1mm(H)
	<b>Voltage</b>	2.7V (min) - 3.6V (max)
	<b>Compliance</b>	SD Card Association
	<b>Operating Temperature</b>	0°C /70°C (Operational), -25°C/85°C (non-operational)
<b>HPE 8GB microSD EM Flash Media Kit</b> 726116-B21	<b>Usable Capacity</b>	8GB
	<b>Performance</b>	21+ MB/second Read Transfer Rate, 17+ MB/second Write Transfer Rate
	<b>Class</b>	Class 10
	<b>Form factor</b>	15mm(L) x 11mm(W) x .95mm(H)
	<b>Voltage</b>	2.7V (min) - 3.6V (max)
	<b>Compliance</b>	SD Card Association
	<b>Operating Temperature</b>	0°C /70°C (Operational), -25°C/85°C (non-operational)
<b>HPE 32GB SD Enterprise Mainstream Flash Media Kit</b> 700136-B21	<b>Usable Capacity</b>	32GB
	<b>Performance</b>	21+ MB/second Read Transfer Rate, 17+ MB/second Write Transfer Rate
	<b>Class</b>	Class 10
	<b>Form factor</b>	32mm(L) x 24mm(W) x 2.1mm(H)
	<b>Voltage</b>	2.7V (min) - 3.6V (max)
	<b>Compliance</b>	SD Card Association
	<b>Operating Temperature</b>	0°C /70°C (Operational), -25°C/85°C (non-operational)

## Technical Specifications

<b>HPE 32GB microSD Enterprise Mainstream Flash Media Kit</b> 700139-B21	<b>Usable Capacity</b>	32GB
	<b>Performance</b>	21+ MB/second Read Transfer Rate, 17+ MB/second Write Transfer Rate
	<b>Class</b>	Class 10
	<b>Form factor</b>	15mm(L) x 11mm(W) x .95mm(H)
	<b>Voltage</b>	2.7V (min) - 3.6V (max)
	<b>Compliance</b>	SD Card Association
	<b>Operating Temperature</b>	0°C /70°C (Operational), -25°C/85°C (non-operational)

<b>Environment-friendly Products and Approach</b>	<b>End-of-life Management and Recycling</b>	Hewlett Packard Enterprise offers end-of-life Hewlett Packard Enterprise product return, trade-in, and recycling programs in many geographic areas. For trade-in information, please go to: <a href="http://www.hp.com/go/green">http://www.hp.com/go/green</a> . To recycle your product, please go to: <a href="http://www.hp.com/go/green">http://www.hp.com/go/green</a> or contact your nearest Hewlett Packard Enterprise sales office. Products returned to Hewlett Packard Enterprise will be recycled, recovered or disposed of in a responsible manner. The EU WEEE directive (2002/95/EC) requires manufacturers to provide treatment information for each product type for use by treatment facilities. This information (product disassembly instructions) is posted on the Hewlett Packard Enterprise web site at: <a href="http://www.hp.com/go/green">http://www.hp.com/go/green</a> . These instructions may be used by recyclers and other WEEE treatment facilities as well as HEWLETT PACKARD ENTERPRISE OEM customers who integrate and re-sell Hewlett Packard Enterprise equipment.
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## Summary of Changes

Date	Version History	Action	Description of Change
11-Dec-2015	From Version 18 to 19	Changed	OS Support was revised.
28-Sep-2015	From Version 17 to 18	Added	Added HPE 32GB SD enterprise Mainstream Flash Media Kit and HPE 32GB microSD Enterprise Mainstream Flash Media Kit for VMWare Hypervisors.  Added VMWare ESXi 5.1 Update 3, VMWare ESXi 5.5 Update 3, VMWare ESXi 6.0 to OS Support.
		Changed	Changed What's New was updated section to read: 32GB SD and MicroSD support for VMWare.
30-Mar-2015	From Version 16 to 17	Added	Added HPE Dual 8GB microSD Enterprise Midline USB Kit
		Changed	Compatibility, Standard Features, Service and Support, and Technical Specifications were revised.
20-Jun-2014	From Version 15 to 16	Changed	4GB card was replaced by 8GB
		Removed	EOL kits were removed: <ul style="list-style-type: none"><li>• HPE 2GB USB Flash Media Drive Key Kit</li><li>• HPE 4GB SD Enterprise Performance Flash Media Kit</li><li>• HPE 4GB microSD Enterprise Performance Flash Media Kit</li></ul>
16-May-2014	From Version 14 to 15	Changed	Compatibility was revised
9-Dec-2013	From Version 13 to 14	Changed	Changed What's New section to read: HPE 8GB USB Enterprise Mainstream Flash Media Drive Key Kit
30-Sep-2013	From Version 12 to 13	Added	HPE 8GB SD and microSD Enterprise Mainstream Flash Media Kits were added  Servers were added to Compatibility  Intelligent Provisioning was added to Standard Features VMWare ESXi 5.1 and 5.5, RHEL 6.4, and SLES SP3 were added to OS Support
13-Mar-2013	From Version 11 to 12	Changed	Technical Specifications: Updated entire section
20-Mar-2013	From Version 10 to 11	Removed	Removed Supports Intelligent Provisioning of OS through AUX power from the Overview section
20-Feb-2013	From Version 9 to 10	Changed	Changes made to update the Models and Technical Specifications sections
19-Feb-2013	From Version 8 to 9	Changed	Changes made to completely revise the entire QuickSpecs except for the Service and Support section
4-Dec-2012	From Version 7 to 8	Changed	Changes made in Overview and Service and Support sections
10-Oct-2012	From Version 6 to 7	Changed	Changes made in the Compatibility section
24-Sep-2012	From Version 5 to 6	Changed	Changes made in the Compatibility section
6-Apr-2012	From Version 4 to 5	Changed	Changes made to the OS Support and Technical Specifications sections.
6-Mar-2012	From Version 3 to 4	Changed	Server Support was updated
20-Jun-2011	From Version 2 to 3	Removed	Mentions of StorageWorks were removed
22-Apr-2011	From Version 1 to 2	Changed	Warranty was revised in Standard Features  Compliance was completely revised for HPE 2GB USB Flash Media Drive Key Kit in Technical Specifications  Note and Maximum supported lifetime/maximum usage was removed from Additional Services Information

## Summary of Changes



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For hard drives, 1GB = 1 billion bytes. Actual formatted capacity is less.

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**Hewlett Packard Enterprise**