



HPE Flash Media Kits

High performance boot solution



HPE Flash Media Kits offer reliable Flash boot solutions with high performance, high endurance, and better data retention for integrated hypervisors and first tier operating systems. Supporting virtualized environments and direct OS boot for Windows Server® 2012 and Linux® across the HPE ProLiant portfolio, these Flash Media Kits are available in three device form factors: USB Keys, SD cards, and microSD cards. Offered in both Enterprise Performance and Enterprise Mainstream grades, Hewlett Packard Enterprise tests and qualifies these devices according to stringent guidelines with strict revision control on the controllers and actual Flash memory. This facilitates greater reliability and performance within your IT environments. When compared to consumer grade off-the-shelf Flash devices, HPE Flash Media Kits demonstrate superior performances with write cycles up to 10X greater.

Available HPE Flash Media devices:

VMware® Hypervisor Solution

- HPE 2GB USB Flash Media Key Kit
- HPE 4GB SD Enterprise Performance Flash Media Kit
- HPE 4GB microSD Enterprise Performance Flash Media Kit
- HPE 8GB SD Enterprise Mainstream Flash Media Kit
- HPE 8GB microSD Enterprise Mainstream Flash Media Kit

Windows®/Linux Boot Solution

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

Key features and benefits

Designed especially for HPE ProLiant servers, HPE Flash Media Kits offer faster OS boot time when compared to traditional spindle storage media. Main features include:

- Higher write cycles (up to 100,000 write cycles or up to 10 times greater than consumer products)
- Static and dynamic wear leveling
- Error Correcting Code capability (40 bits/1K)
- Data retention of 1 year at the life end of the Flash
- Read/Write counter
- Intelligent Provisioning allowing OS install through AUX power
- Direct install for Windows Server 2012

OS Support

OS Support for VM Hypervisor Solution

- 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 ESX 5.0
- VMware® ESXi™ 4.1
- VMware ESXi 5.0
- VMware ESXi 5.1
- VMware ESXi 5.5

OS Support for Windows/Linux Boot Solution

- 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
- Red Hat® Enterprise Linux 6.3 (64 bit)
- RHEL 6.4 (64 bit)
- SLES11 SP2 (32 & 64 bit)
- SLES11 SP3 (32 & 64 bit)
- Ubuntu 12.04 (32 & 64 bit)

Technical specifications

	HPE 4GB SD Flash Media Kit 580387-B21	HPE 2GB USB Flash Media Drive Key Kit 608447-B21	HPE 4GB Micro SDHC Flash Media Kit 647444-B21
Usable capacity	4 GB	2 GB	4 GB
Performance	18+ MB/s read transfer rate, 17+ MB/s write transfer rate	23+ MB/s read transfer rate, 17+ MB/s write transfer rate	21+ MB/s read transfer rate, 17+ MB/s write transfer rate
Class	Class 6	Class 6	Class 6
Form factor	32 mm (L) x 24 mm (W) x 2.1 mm (H)	57.24 mm (L) x 17.29 mm (W) x 9.5 mm (H)	15 mm (L) x 11 mm (W) x 0.95 mm (H)
Voltage	2.7 V (min.)–3.6 V (max.)	3 V (min.)–3.6 V (max.)	2.7 V (min.)–3.6 V (max.)
Compliance	SD Card Association	USB specification revision 1.1 and 2.0	SD Card Association
Operating temperature	0/70°C (operational) –25°C/85°C (non-operational)	0/70°C (operational) –25°C/85°C (non-operational)	–25°C/85°C (operational) –40°C/85°C (non-operational)

	HPE 8GB SD EM Flash Media Kit 726113-B21	HPE 8GB microSD EM Flash Media Kit 726116-B21	HPE 32GB SD EM Flash Media Kit 700136-B21	HPE 32GB microSD EM Flash Media Kit 700139-B21
Usable capacity	8 GB	8 GB	32 GB	32 GB
Performance	21+ MB/s read transfer rate, 17+ MB/s write transfer rate	21+ MB/s read transfer rate, 17+ MB/s write transfer rate	21+ MB/s read transfer rate, 17+ MB/s write transfer rate	21+ MB/s read transfer rate, 17+ MB/s write transfer rate
Class	Class 10	Class 10	Class 10	Class 10
Form factor	32 mm (L) x 24 mm (W) x 2.1 mm (H)	15 mm (L) x 11 mm (W) x 0.95 mm (H)	32 mm (L) x 24 mm (W) x 2.1 mm (H)	15 mm (L) x 11 mm (W) x 0.95 mm (H)
Voltage	2.7 V (min.)–3.6 V (max.)	2.7 V (min.)–3.6 V (max.)	2.7 V (min.)–3.6 V (max.)	2.7 V (min.)–3.6 V (max.)
Compliance	SD Card Association	SD Card Association	SD Card Association	SD Card Association
Operating temperature	0/70°C (operational) –25°C/85°C (non-operational)	0/70°C (operational) –25°C/85°C (non-operational)	0°C/70°C (operational) –25°C/85°C (non-operational)	0/70°C (operational) –25°C/85°C (non-operational)

Optimize your IT investment strategy with new ways to acquire, pay for and use technology, in lock-step with your business and transformation goals.

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HPE Factory Express provides customization and deployment services along with your storage and server purchases. You can customize hardware to your exact specifications in the factory—helping speed deployment. hp.com/go/factoryexpress

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Introduce your virtualized environment to better efficiency and productivity

HPE Flash Media Kits for Memory Cards can help take the guesswork out of enhancing the cost-effectiveness and reliability of your data-intensive applications.

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