

### Overview

### HPE H241 Smart Host Bus Adapter

The HPE H241 Smart Host Bus Adapter is a 2 x4 external port HBA that provides customers with the flexibility and speed they have come to expect from HPE. The H241 Smart HBA is ideal for external connectivity to tape drives, shared storage, and external JBODs providing support for both 12G SAS and 6G SATA HDDs and SSDs. The H241 Smart HBA can also provide high performance for SSDs that do not require data protection. This SAS HBA is ideal for driving cost-effective and reliable scalability in today's data centers. The H241 Smart Host Bus Adapter provides flexibility to run in HBA mode or simple RAID mode. When operating in simple RAID mode, it provides RAID 0, RAID 1, and RAID 5 with optional HPE Secure Encryption capabilities. Unlike the HPE Smart Array Controllers, the H241 does not offer any acceleration or support cache modules.



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### Model

#### Host Bus Adapter

HPE H241 12Gb 2-ports Ext Smart Host Bus Adapter

726911-B21

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### Kit contents

- HPE H241 Smart Host Bus Adapter
- Low profile controller bracket

## Standard Features

### Key Features

- Storage interface (SAS/SATA)
  - 8 physical links across 2 x4 external ports
  - 12Gb/s SAS, 6Gb/s SATA technology
  - Mix-and-match SAS and SATA drives to the same controller
  - Support for SAS tape drives, SAS tape autoloaders and SAS tape libraries
- PCI Express Gen3 x8 link
- RAID 0, 1, 5, 10
- Simple RAID or HBA mode
- Legacy and UEFI boot operation
- Up to 200 physical drives
- Up to 64 logical drives
- HPE Secure Encryption (optional license)
- Seamless upgrades to other HPE Smart Array P-series controllers
- PCI Express standard plug-in card
  - Dimensions: 5.3 x 3.56 x 1.23 in (13.46 x 9.04 x 3.12 cm)

### Ports

External: 8 SAS/SATA physical links across 2 x4 external ports

### Performance

- 12Gb/s SAS (1200 MB/s theoretical bandwidth per physical lane)
- 6Gb/s SATA (600 MB/s theoretical bandwidth per physical lane)
- PCI Express Gen3 x8 link width

### HPE Secure Encryption

HPE Secure Encryption is a Smart Array controller-based data encryption solution for ProLiant Gen9 servers that protects sensitive, mission critical data. This is an enterprise-class encryption solution for data at rest on any bulk storage attached to the HPE Smart Array controllers including data on the cache memory of the controller. HPE Secure Encryption is an optional license per server requiring encryption enablement (see Related Options for more information on the license).

The solution is available for both local and remote key management mode deployments. Local Key Management Mode is focused on single server deployment where there is one Master key per controller that is managed by the user. Remote Key Management Mode is for enterprise wide deployments from just a few servers to thousands of servers.

For more information please visit <http://www.hp.com/go/hpsecureencryption>

### Warranty

The warranty for this device is 1 year parts only.

#### Warranty Upgrade Options

- Response - Upgrade on-site response from next business day to same day 4 hours
- Coverage - Extend hours of coverage from 9 hours x 5 days to 24 hours x 7 days
- Duration - Select duration of coverage for a period of 1, 3, or 5 years
- Warranty upgrade options can come in the form of Care Packs, which are sold at the HPE System level this product attaches too

## Compatibility

### Server Support

HPE ProLiant DL20 Gen9  
 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

HPE ProLiant ML10 Gen9  
 HPE ProLiant ML30 Gen9  
 HPE ProLiant ML110 Gen9  
 HPE ProLiant ML150 Gen9  
 HPE ProLiant ML350 Gen9  
  
 HPE ProLiant XL230a Gen9  
 HPE ProLiant XL230b Gen9  
 HPE ProLiant XL250a Gen9  
 HPE ProLiant XL260a Gen9  
 HPE ProLiant XL270d Gen9  
 HPE ProLiant XL450 Gen9

### Disk Enclosure Support

HPE D2600 Disk Enclosure  
 HPE D2700 Disk Enclosure  
 HPE D3600 Disk Enclosure  
 HPE D3700 Disk Enclosure

HPE D6000 Disk Enclosure  
 HPE D6020 Disk Enclosure  
  
 HPE MSA 2040 SAN Storage

### Operating Systems

Microsoft Windows Server  
 Microsoft Windows Hyper-V Server  
 VMware vSphere ESXi  
 Red Hat Enterprise Linux (RHEL)  
 SUSE Linux Enterprise Server (SLES)  
 Oracle Solaris  
 Oracle Linux  
 Canonical Ubuntu  
 CentOS  
 Wind River  
 Citrix XenServer

**NOTE: For a complete and up-to-date list of certified and supported OS versions for HPE Smart Array controllers, please refer to the HPE Smart Array Operating System Support Matrix at: <http://www.hpe.com/h20195/v2/GetPDF.aspx/4AA6-6550ENW.pdf>**

**NOTE: For more information on HPE's Certified and Supported ProLiant Servers for OS and Virtualization Software, please visit our Support Matrix at: <http://www.hpe.com/info/ossupport>**

### Storage Management Software Suite

#### **HPE Smart Storage Administrator (HPE SSA)**

Comprehensive management for HPE Smart Storage products with advanced scripting and diagnostic features and simplified and intuitive interface and functionality. For more information please visit: <http://www.hpe.com/servers/ssa>

#### **HPE Systems Insight Manager**

Powerful server and server options/storage manager tool with configuration/diagnostic utilities

#### **HPE Storage Management Utility**

Offers the simplest method for configuring the storage system via Initial System Configuration Wizard

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## Service and Support

### Service and Support **HPE Technology Services**

HPE Technology Services offers you technical consultants and support expertise to solve your most complex infrastructure problems. We help keep your business running, boost availability, and avoid downtime.

#### **Protect your business beyond warranty with HPE Pointnext operational services**

When you buy HPE Options, it's also a good time to think about what level of service you may need. HPE Pointnext operational services provide total care and support expertise with committed response choices designed to meet your IT and business need.

HPE Foundation Care services deliver scalable support-packages for Hewlett Packard Enterprise industry-standard servers and software. You can choose the type and level of service that is most suitable for your business needs. New to this portfolio is HPE Collaborative Support. If you are running business critical environments, Hewlett Packard Enterprise offers Proactive Care or Critical Advantage. These services help you deliver high levels of application availability through proactive service management and advanced technical response.

Here is the support service recommendation from the Foundation Care and Proactive Care portfolio. For customized support service solution, Hewlett Packard Enterprise can work with you to tailor a service solution for your unique support requirements using broader services portfolio of Foundation Care and Proactive Care.

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## Recommended HPE Pointnext operational services for optimal satisfaction with your HPE product

### Recommended Services **3-Year HPE 24x7 4 hour Response, Proactive Care**

Helps optimize your systems and delivers high levels of application availability through proactive service management and advanced technical response. A skilled Technical Manager will own your query or issue end to end until resolved, delivering a single point of contact for you

**OR**

### **3-Year HPE 24x7 4 hour Response, HPE Collaborative Support**

Provides problem resolution support across the stack of HW, firmware, and Hewlett Packard Enterprise and 3rd party SW. In case the issue is with 3rd party SW, Hewlett Packard Enterprise does known issue resolution. If Hewlett Packard Enterprise cannot solve the issue, it will contact the third-party vendor and create a problem incident on your behalf

<https://www.hpe.com/h20195/V2/GetPDF.aspx/4AA3-8232ENW.pdf>

### **HPE Installation of ProLiant Add On Options Service**

This easy-to-buy, easy-to-use HPE Care Pack service helps ensure that your new Hewlett Packard Enterprise hardware or software is installed smoothly, efficiently, and with minimal disruption of your IT and business operations

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## Related HPE Pointnext operational services to enhance your HPE product experience

### Related Services **3-Year HPE 24x7 4 hour Response, Proactive Care**

Helps optimize your systems and delivers high levels of application availability through proactive service management and advanced technical response. A skilled Technical Manager will own your query or issue end to end until resolved, delivering a single point of contact for you

**OR**

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## Service and Support

### **3-Year HPE 24x7 4 hour Response, Hardware Support Onsite Service**

Provides you with rapid remote support and if required an Hewlett Packard Enterprise Authorized representative who will arrive on site any time and day of the year to begin hardware maintenance service within 4 hours of the service request being logged

<https://www.hpe.com/h20195/V2/GetPDF.aspx/5982-6547EEE.pdf>

### **3-Year HPE 6-hour Onsite Call-to-Repair, HPE Collaborative Support**

Offers customers a single point of contact for server problem diagnosis, hardware problem resolution to return the hardware in operating condition within 6 hours of the initial service request to the HPE Global Solution Center, and basic software problem diagnosis, fault isolation, and resolution if available to Hewlett Packard Enterprise. <https://www.hpe.com/h20195/V2/GetPDF.aspx/4AA3-8232ENW.pdf>

<https://www.hpe.com/h20195/V2/GetPDF.aspx/4AA3-8232ENW.pdf>

### **HPE Proactive Select Service**

Provides a flexible way to purchase Hewlett Packard Enterprise best-in-class consultancy and technical services. You can buy Proactive Select Service Credits when you purchase your hardware and then use the credits over the next 12 months. <https://www.hpe.com/h20195/V2/GetPDF.aspx/4AA2-3842ENN.pdf>

<https://www.hpe.com/h20195/V2/GetPDF.aspx/4AA2-3842ENN.pdf>

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**Insight Remote Support** Provides 24 X 7 remote monitoring, proactive notifications, and problem resolution. Learn more <http://www.hp.com/go/insightremotesupport>

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**HPE Support Center** Personalized online support portal with access to information, tools and experts to support Hewlett Packard Enterprise business products. Submit support cases online, chat with Hewlett Packard Enterprise experts, access support resources or collaborate with peers. Learn more <http://www.hp.com/go/hpsc>

The HPE Support Center Mobile App\* allows you to resolve issues yourself or quickly connect to an agent for live support. Now, you can get access to personalized IT support anywhere, anytime. HPE Insight Remote Support and HPE Support Center are available at no additional cost with a Hewlett Packard Enterprise warranty, HPE Care Pack or Hewlett Packard Enterprise contractual support agreement.

**\*The Hewlett Packard Enterprise Support Center Mobile App is subject to local availability**

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**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 quick-specs, 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 Hewlett Packard Enterprise due to malfunction.

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**Warranty / Service Coverage** For ProLiant servers and storage systems, this service covers HPE-branded hardware options qualified for the server, purchased at the same time or afterward, internal to the enclosure, as well as external monitors up to 22" and tower UPS products; these items will be covered at the same service level and for the same coverage period as the server unless the maximum supported lifetime and/or the maximum usage limitation has been exceeded. Coverage of the UPS battery is not included; standard warranty terms and conditions apply.

The defective media retention service feature option applies only to Disk or eligible SSD/Flash Drives

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## Service and Support

replaced by Hewlett Packard Enterprise due to malfunction. It does not apply to any exchange of Disk or SSD/Flash Drives that have not failed. SSD/Flash Drives that are specified by Hewlett Packard Enterprise as consumable parts and/or that have exceeded maximum supported lifetime and/or the maximum usage limit as set forth in the manufacturer's operating manual or the technical data sheet are not eligible for the defective media retention service feature option.

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### **For more information**

To learn more on services for HPE ESSN Options, 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>

## Related Options

<b>HPE Secure Encryption</b>	HP Secure Encryption per Svr Entitlement <b>NOTE: HPE Secure Encryption licensing is based on the number of servers requiring encryption for direct attached storage.</b> For more information visit: <a href="http://www.hpe.com/server/secureencryption">http://www.hpe.com/server/secureencryption</a>	C9A82AAE
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<b>HPE External Cable Options</b>	<b>Cable options to be used with HP D3600 and D3700 Disk Enclosures</b> HP External 0.5m (1ft) Mini-SAS HD 4x to Mini-SAS HD 4x Cable HPE External 1.0m (3ft) Mini-SAS HD 4x to Mini-SAS HD 4x Cable  HP External 2.0m (6ft) Mini-SAS HD 4x to Mini-SAS HD 4x Cable HPE External 4.0m (13ft) Mini-SAS HD 4x to Mini-SAS HD 4x Cable  <b>Cable options to be used with D6000 and D6020 Disk Enclosures</b> HP 0.5m External Mini SAS High Density to Mini SAS Cable HPE 1.0m External Mini SAS High Density to Mini SAS Cable  HPE 2.0m External Mini SAS High Density to Mini SAS Cable  HPE 4.0m External Mini SAS High Density to Mini SAS Cable  HP 6.0m External Mini SAS High Density to Mini SAS Cable	691968-B21 716195-B21  716197-B21 716199-B21  691971-B21 716189-B21  716191-B21  716193-B21  733045-B21

## Summary of Changes

Date	Version History	Action	Description of Change
23-Oct-2017	Version 5	Changed	Care Pack naming and Service and Support- Parts and Materials updated.
19-Aug-2016	From Version 3 to 4	Changed	Overview, Standard Features, Compatibility, and Related Options were revised.
11-Dec-2015	From Version 2 to 3	Removed	Support for MSA 2040 was removed from QuickSpecs.
01-Dec-2014	From Version 1 to 2	Changed	Related Options section was revised.



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

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