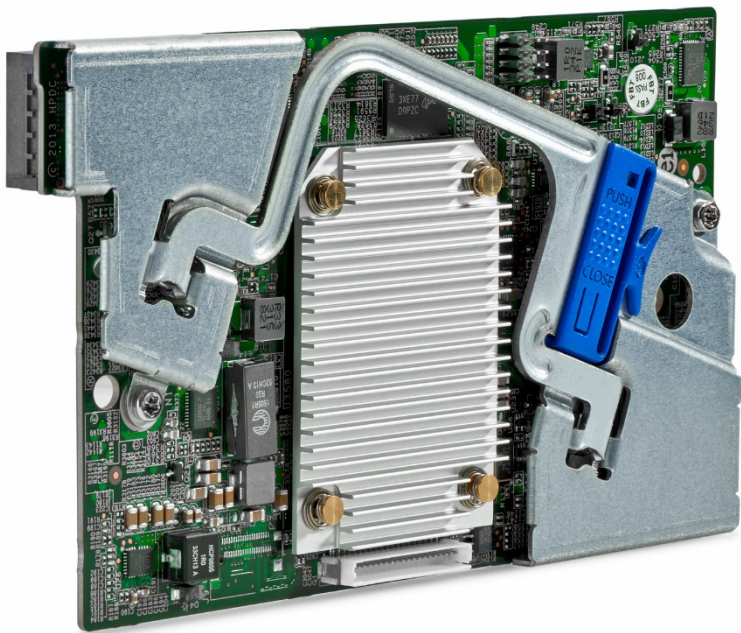


### Overview

### HPE H244br Host Bus Adapter

The HPE H244br Smart Host Bus Adapter comes in a Flexible Smart SAS HBA form factor that provides a reliable, high performing 12G/s SAS connectivity to the internal drives in the ProLiant BL460c Gen9 server. The H244br Smart Host Bus Adapter provides flexibility to run as an 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 H244br does not offer any acceleration or support cache modules.



Host Bus Adapter

### Model

HPE H244br 12Gb 2-ports Int Smart Host Bus Adapter (Extended)

726809-B21

### Kit contents

- HPE H244br Smart Host Bus Adapter

## Standard Features

### Key Features

- Storage interface (SAS/SATA)
  - 2 physical links across 2 x1 internal 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
- RAID or HBA mode
- Legacy and UEFI boot operation
- Up to 2 physical drives
- Up to 64 logical drives
- HPE Secure Encryption (optional license)
- Seamless upgrades to and from other HPE Smart Array controllers
- PCI Express flexible card
  - Dimensions: 5.3 x 3.6 x 1.2 in (13.46 x 9.04 x 3.12 cm)

### Ports

Internal: 2 SAS/SATA physical links across 2 x1 internal ports

### Performance

- 12Gb/s SAS (1200 MB/s theoretical bandwidth per physical lane)
- 6Gb/s SATA (600 MB/s theoretical bandwidth per physical lane)
- x8 PCIe 3.0 provides 8GB/s maximum bandwidth

### 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 <https://www.hpe.com/us/en/product-catalog/detail/pip.6532260.html>

### 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

### Extended Option

Extended Options provide an extended catalog of products tailored for customers in specific markets or with specific workloads, requiring the utmost in performance or value. Fully integrated into the ProLiant management and security experience, Extended Options represent great value and performance but typically have a longer lead-time.

## Compatibility

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<b>Server Support</b>	HPE ProLiant BL460c Gen9 HPE ProLiant XL450 Gen9
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<b>Operating Systems</b>	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 <b>NOTE:</b> 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: <a href="http://www.hpe.com/h20195/v2/GetPDF.aspx/4AA6-6550ENW.pdf">http://www.hpe.com/h20195/v2/GetPDF.aspx/4AA6-6550ENW.pdf</a> <b>NOTE:</b> For more information on HPE's Certified and Supported ProLiant Servers for OS and Virtualization Software, please visit our Support Matrix at: <a href="http://www.hpe.com/info/ossupport">http://www.hpe.com/info/ossupport</a>
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<b>Software Suite</b>	<b>HPE Smart Storage Administrator</b> (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: <a href="http://www.hpe.com/servers/ssa">http://www.hpe.com/servers/ssa</a> <b>HPE Systems Insight Manager</b> Powerful server and server options/storage manager tool with configuration/diagnostic utilities <b>HPE Storage Management Utility</b> 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**

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

Provides you with rapid remote support and if required a Hewlett Packard Enterprise Authorized

## Service and Support

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

### HPE Proactive Select Service

Provides a flexible way to purchase HPE 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>

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**Insight Remote Support** Provides 24 X 7 remote monitoring, proactive notifications, and problem resolution. Learn more <http://h20565.www2.hpe.com/portal/site/hpsc/public/psi/home?sp4ts.oid=5211911&ac.admitted=1507816040466.125225703.1851288163>

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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 HPE experts, access support resources or collaborate with peers. Learn more <http://h20565.www2.hpe.com/portal/site/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 HPE 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 replaced by HPE 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 HPE 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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## Service and Support

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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: <https://www.hpe.com/us/en/support.html> or <https://www.hpe.com/us/en/services/operational.html>

Summary of Changes

Date	Version History	Action	Description of Change
04-Jun-2018	Version 4	Changed	SKU description and Standard Features were updated.
23-Oct-2017	Version 3	Changed	Care Pack naming and Service and Support- Parts and Materials updated.
19-Aug-2016	Version 2	Changed	Overview, Standard Features, and Compatibility were revised.
09-Sep-2014	Version 1	New	Initial version.



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

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