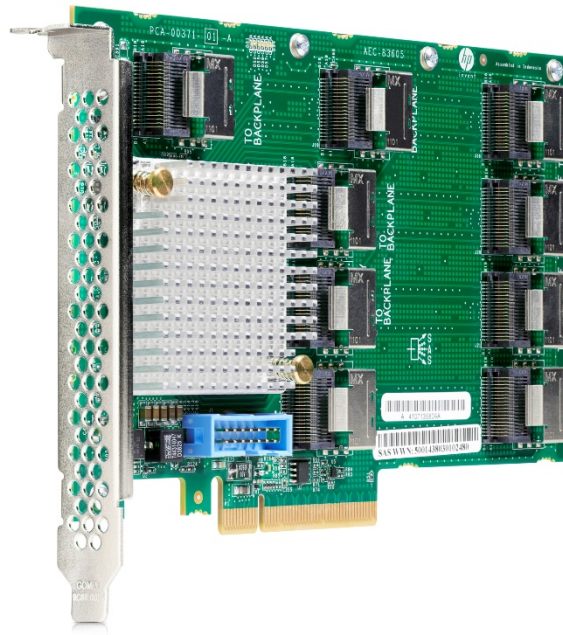


### Overview

### HPE 12G SAS Expander Card

The HPE 12G SAS Expander Card provides internal storage expansion within the HPE ProLiant Gen9 and Gen10 Server by allowing support for up to 28 drives when connected to a Gen10 or Gen9 supported Smart Array or Smart HBA controller. This full height card supports 12Gb/s SAS connectivity and is ideal for users who want to add additional internal storage to maximize their storage capacity.



### Models

HP ML350 Gen9 2nd Expander Card	727251-B21
HPE ML350 Gen10 12Gb SAS Expander Card Kit with Cables	874576-B21
HPE DL5x0 Gen10 12Gb SAS Expander Card Kit with Cables	873444-B21
HPE DL38X Gen10 12Gb SAS Expander Card Kit with Cables	870549-B21

### Kit contents

- HPE 12G SAS Expander card
- All the cables required for specified server will be included in the kit

## Standard Features

### Key Features

- Storage interface (SAS/SATA)
  - 28 physical links across 9 x4 internal ports
  - 12Gb/s SAS, 6Gb/s SATA technology
  - Mix-and-match SAS and SATA hard drives to the same controller
- PCI Express 3.0 x8 link
- Supports up to 28 internal drive bays (dependent on the server)
- Up to 64 logical drives when connected to a Smart Array Controller

### Ports

- 2 x4 Mini-SAS ports for attachment to Smart Array controllers or Smart HBAs
- 7 x4 Mini-SAS ports for attachment to server drive backplanes
  - Supports up to 28 drives (dependent on server)

### Performance

- 12Gb/s SAS (1200 MB/s theoretical bandwidth per SAS lane)
- 6Gb/s SATA (600 MB/s theoretical bandwidth per SAS lane)
- PCI Express 3.0 x8 link width

### Dimensions

- 6.6 x 4.4 x 0.6 in (16.8 x 11.13 x 1.5 cm) PCIe full-height, half-length card

### Warranty

The warranty for this device is 3-years 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 HPE Pointnext operational, which are sold at the HPE System level to which this product attaches.

### Server Support

HPE ProLiant DL380 Gen9	HPE ProLiant DL380 Gen10
HPE ProLiant DL560 Gen9	HPE ProLiant DL560 Gen10
HPE ProLiant ML350 Gen9	

**Notes:** 12G SAS Expander not supported in ML350 Gen10 LFF models.

### Operating Systems

Please reference **Smart Array** QuickSpecs along with ProLiant Gen10 or Gen9 server for Operating Systems support.



## Service and Support

### HPE Pointnext - Service and Support

**Get the most from your HPE Products.** Get the expertise you need at every step of your IT journey with **HPE Pointnext Services**. We help you lower your risks and overall costs using automation and methodologies that have been tested and refined by HPE experts through thousands of deployments globally. HPE Pointnext **Advisory Services** focus on your business outcomes and goals, partnering with you to design your transformation and build a roadmap tuned to your unique challenges. Our **Professional** and **Operational Services** can be leveraged to speed up time-to-production, boost performance and accelerate your business. HPE Pointnext specializes in flawless and on-time implementation, on-budget execution, and creative configurations that get the most out of software and hardware alike.

### Consume IT on your terms

**HPE GreenLake** brings the cloud experience directly to your apps and data wherever they are—the edge, colocations, or your data center. It delivers cloud services for on-premises IT infrastructure specifically tailored to your most demanding workloads. With a pay-per-use, scalable, point-and-click self-service experience that is managed for you, HPE GreenLake accelerates digital transformation in a distributed, edge-to-cloud world.

- Get faster time to market
- Save on TCO, align costs to business
- Scale quickly, meet unpredictable demand
- Simplify IT operations across your data centers and clouds

### Managed services to run your IT operations

**HPE GreenLake Management Services** provides services that monitor, operate, and optimize your infrastructure and applications, delivered consistently and globally to give you unified control and let you focus on innovation.

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### Recommended Services

#### HPE Pointnext Tech Care.

HPE Pointnext Tech Care is the new operational service experience for HPE products. Tech Care goes beyond traditional support by providing access to product specific experts, an AI driven digital experience, and general technical guidance to not only reduce risk but constantly search for ways to do things better. HPE Pointnext Tech Care has been reimaged from the ground up to support a customer-centric, AI driven, and digitally enabled customer experience to move your business forward. HPE Pointnext Tech Care is available in three response levels. Basic, which provides 9x5 business hour availability and a 2 hour response time. Essential which provides a 15 minute response time 24x7 for most enterprise level customers, and Critical which includes a 6 hour repair commitment where available and outage management response for severity 1 incidents.

<https://www.hpe.com/services/techcare>

#### HPE Pointnext Complete Care

HPE Pointnext Complete Care is a modular, edge-to-cloud IT environment service that provides a holistic approach to optimizing your entire IT environment and achieving agreed upon IT outcomes and business goals through a personalized and customer-centric experience. All delivered by an assigned team of HPE Pointnext Services experts. HPE Pointnext Complete Care provides:

- A complete coverage approach -- edge to cloud
- An assigned HPE team
- Modular and fully personalized engagement
- Enhanced Incident Management experience with priority access
- Digitally enabled and AI driven customer experience

<https://www.hpe.com/services/complecare>



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## Service and Support

### HPE Education Services

Keep your IT staff trained making sure they have the right skills to deliver on your business outcomes. Book on a class today and learn how to get the most from your technology investment. <http://www.hpe.com/ww/learn>

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### HPE Support Center

The HPE Support Center is a personalized online support portal with access to information, tools and experts to support HPE business products. Submit support cases online, chat with HPE experts, access support resources or collaborate with peers.

Learn more <http://www.hpe.com/support/hpesc>

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 Support Service or HPE contractual support agreement.

*\*HPE Support Center Mobile App is subject to local availability*

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## Summary of Changes

<b>Date</b>	<b>Version History</b>	<b>Action</b>	<b>Description of Change</b>
15-Nov-2019	Version 7	Updated	Service and Support Section was updated
16-Sep-2019	Version 6	Updated	Models Section was updated
14-Aug-2017	Version 5	Added	Added additional SKUs for Gen10 platforms that support the SAS Expander Card.
		Changed	Updated Service and Support section.
24-Feb-2017	Version 4	Added	Added additional SKUs for all Gen9 platforms that support the SAS Expander Card.
		Changed	Standard Features, Compatibility and Technical Specifications were updated.
26-Oct-2016	Version 3	Changed	QuickSpecs was rebranded.
01-Dec-2014	Version 2	Changed	Overview, Standard Features, and Compatibility sections were revised.



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

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