

### Overview

#### HPE Smart Array S100i SR Gen10 Software RAID

HPE Smart Array S100i SR Gen10 Software RAID, supporting 6Gb/s SATA, is an ideal entry-level solution for supporting RAID 0, 1, 5, and 10. Smart Array Software (SW) RAID is a driver based solution that enables RAID on up to 14 SATA drives connected to the embedded SATA ports on the system board. This software RAID solution is available for HPE ProLiant Gen10 servers and HPE Synergy Gen10 compute modules and provides the efficiency needed to address your evolving data storage needs. HPE Smart Array S100i SR Gen10 SW RAID is only supported on Windows.

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#### Key Features

- Storage interface (SATA)
    - Up to 14 SATA lanes
    - 6Gb/s SATA technology
  - RAID 0, 1, 5, and 10
  - UEFI System Utilities (storage configuration)
  - Up to 14 physical drives
  - Up to 14 logical drives
  - Seamless upgrades to HPE Smart Array controllers
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#### Ports

- Internal: Up to 14 SATA lanes (dependent on server)
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#### Performance

- 6Gb/s SATA (600 MB/s theoretical bandwidth per physical lane)
  - PCI Express 3.0 x4 link width
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#### Fault Prevention

The following features offer detection of possible failures before they occur:

- Predictive drive failure detects possible drive failure before it occurs, allowing replacement of the component before failure occurs.
  - Background surface scan checks drives during inactive periods and automatically remaps bad sectors, ensuring data integrity.
  - HPE SmartSSD Wear Gauge reports the amount of lifetime remaining on your SSDs.
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#### Storage Management Software Suite

HPE Smart Storage Administrator (SSA) GUI  
HPE Smart Storage Administrator (SSA) CLI  
HPE Smart Storage Administrator (SSA) Scripting  
HPE Intelligent Provisioning  
UEFI System Utilities (storage configuration)

**Notes:** For additional information see the [HPE Smart Array SR Gen10 Configuration Guide at: http://www.hpe.com/info/SmartArrayGen10-docs](http://www.hpe.com/info/SmartArrayGen10-docs)

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## Compatibility

### Server Compatibility

HPE Smart Array S100i SR Gen10 Software RAID is offered on all ProLiant Gen10 servers and Synergy Gen10 compute modules.

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### Operating Systems

Microsoft Windows Server

Microsoft Windows Hyper-V Server

**Notes:** S100i Software RAID only supports Windows. For Linux users, HPE offers a solution that uses in-distro open-source software to create a two-disk RAID 1 boot volume. For more information visit:

<https://downloads.linux.hpe.com/SDR/project/lsrrb/>

**Notes:** Customers using Linux and VMware can use the embedded SATA ports in AHCI mode. In AHCI mode S100i Software RAID is not enabled.

**Notes:** For more information on HPE's server operating systems and virtualization software, please visit:

<http://www.hpe.com/info/ossupport>

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## Service and Support

### HPE Support Services

#### 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>

### HPE Education Services



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## Service and Support

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 Hewlett Packard Enterprise 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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### Additional Service Information

<http://www.hpe.com/services>

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### HPE Smart Array Supporting Documents

For additional support documents, including and configuration guide and user guides, please visit:

<http://www.hpe.com/info/SmartArrayGen10-docs>

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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 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 Hewlett Packard Enterprise due to malfunction.



## Copyright

Date	Version History	Action	Description of Change
15-Nov-2021	Version 5	Changed	Service and Support Section was updated
07-May-2018	Version 4	Changed	Updated a note in the Operating Systems section
12-Feb-2018	Version 3	Changed	Updated Service and Support; added note on embedded SATA ports being used in AHCI mode
04-Dec-2017	Version 2	Changed	QuickSpecs name updated
17-Jul-2017	Version 1	New	New QuickSpecs.



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

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