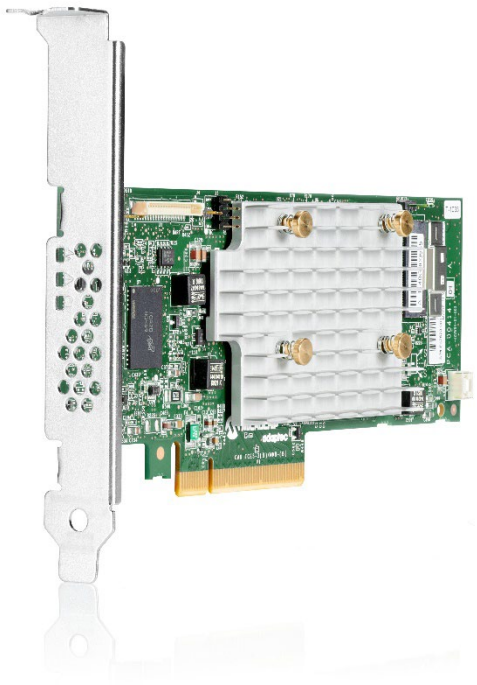
Have feedback on QuickSpecs? We're listening

HPE SR Gen11 Storage Controllers QuickSpecs

A versatile, simplified, and flexible choice for data centers.

HPE offers a choice of HPE SR Gen11 storage controllers based on Microchip® SmartRAID® firmware using SmartROC 3100 and 3200 delivering quality, performance, and security for mission-critical applications.

Overview



Standard PCI HH/HL

SR932 Gen11 Key Features

- Tri-mode (24G SAS, 6G SATA, 16G NVMe) Drive Support.
- 16-lane (x16) (SR932i-p) PCIe 4.0 host interface.
- DMTF Security Protection Data Model (SPDM) supports certificate-based authentication with HPE iLO6.
- Hardware Root of Trust (HWRoT) protects against malicious firmware.
- Standard PCI HH/HL and OCP NIC 3.0 form-factors.
- Mixed Mode (RAID and/or JBOD) supporting RAID 0,1,5,6,10,50,60,1T/10T.
- 144b 8GB DRAM (SR932) supporting read and write cache (FBWC).
- Smart Cache Included.
- Data-At-Rest Encryption support:
  - Controller-Based Encryption (CBE) supporting Local (LKM) and Remote (RKM) key management.
  - Self-Encrypting Drive (SED) supporting Host (HKM) key management.
- Support for 32 (SR932) drives without expander.
- Support for 64 volumes.
- Support for HPE Smart Storage Battery and Hybrid Capacitor (Optional).

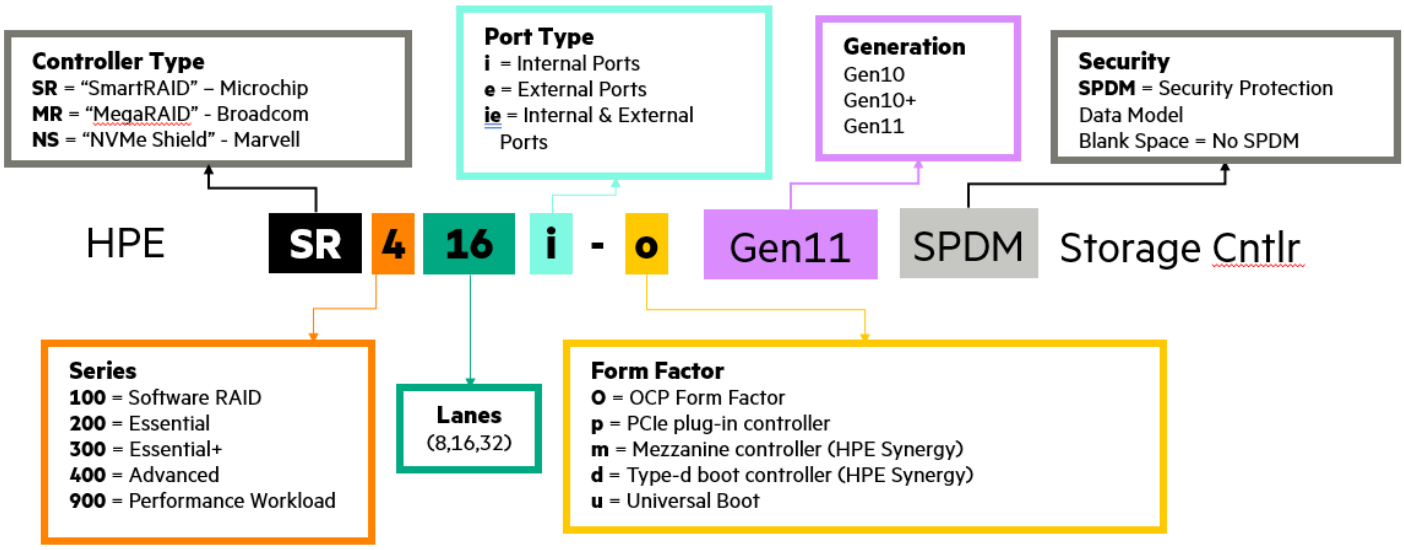
Overview

Models

HPE SR932i-p Gen11 x32 Lanes 8GB Wide Cache PCI SPDM Plug-in Storage Controller	P47184-B21
HPE SR416ie-m Gen11 x16 Lanes 4GB Cache SPDM Mezzanine Storage Controller	P39959-B21

Naming Framework

The Gen11 controller naming framework is illustrated below to help simplify controller identification.



Standard Features

Description	HPE SR932i-p Gen11 x32 Lanes 8GB Wide Cache PCI SPDM Plug-in Storage Controller
HPE SR932i-p Gen11 x32 Lanes 8GB Wide Cache PCI SPDM Plug-in Storage Controller	P47184-B21
Ports	4x8 SlimSAS
Storage Lanes	X32
Form Factor	PCIe FH/HL
ASIC	Microchip SmartROC 3200pe
Host Interface	X16 PCIe 4.0
Cache Size (FBWC)	8GB
Read Ahead Caching	✓
Write-back Caching	✓
Storage Protocol	6G SATA, 24G SAS, 16G NVMe
Max Drives (no expander)	32
Max Drives (with expander)	238
Max Volumes	64
RAID:	0/1/5/6/10/50/60/1T/10T
Mixed Mode: (RAID & HBA)	✓

Standard Features

Feature	Description
SSD Accelerator	Smart Path
Array Features	– Expand Array – Move Drives – Shrink Array – Spare Management (dedicated and shared)
Volume Features	– Extend Logical Drive – Background Surface Scan – Instant Secure Erase – Migrate RAID/Stripe Size – Modifying Cache Write Policy – Move Logical Drive Re-enable Failed Logical Drive
Other Features	– Dynamic caching algorithm – Hot-plug drive support – Dynamic sector repair – SmartCache – Bootable array support through UEFI BIOS – Smart PQI driver with multiple queues and MSI-X support – Secure boot support for the UEFI BIOS – Smart Storage Administrator GUI and CLI utilities support – DRAM ECC detects and corrects data bit errors. – Redundant ROM Image, protects against firmware corruption – SSD Wear Gauge – SMART Predictive Drive Failure
HPE OneView Support	Managed Mode
Kit contents	Includes storage controller, information card, warranty statement, and storage controller battery cable.

Optional Accessories for SR Storage Controllers

Energy pack Options Sold Separately

HPE 96W Smart Storage Lithium-ion Battery with 145mm Cable Kit	P01366-B21
HPE 96W Smart Storage Lithium-ion Battery with 260mm Cable Kit	P01367-B21
HPE Smart Storage Hybrid Capacitor with 145mm Cable Kit	P02377-B21
HPE Smart Storage Hybrid Capacitor with 260mm Cable Kit	P02381-B21

Notes:

– An HPE Smart Storage energy pack is optional.

– Moving volumes or SED locked drives between SR and MR controllers is not supported.

Standard Features

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 Services operational, which are sold at the HPE System level to which this product attaches.

Operating System Support

- Microsoft Windows Server
- Red Hat Enterprise Linux (RHEL)
- SUSE Linux Enterprise Server (SLES)
- VMware ESXi
- Canonical Ubuntu

Notes: HPE SR controllers are supported by the server operating system. For more information on HPE's server operating systems and virtualization software, please visit: http://www.hpe.com/info/ossupport

Storage Management Software Suite

HPE SR Gen11 Storage Controllers

- Smart Storage Administrator (SSA) GUI
- Smart Storage Administrator (SSA) CLI
- Smart Storage Administrator (SSA) Scripting
- HPE Intelligent Provisioning
- UEFI System Utilities
- iLO Redfish

Additional Information

HPE SR Gen11 Storage Controllers

For additional information on the features for the HPE SR Gen11 Storage Controllers, please see the HPE SR Gen11 User Guide at: https://www.hpe.com/support/sr-gen11-ug

Also see storage controller management overview at: https://www.hpe.com/info/scmo

And storage encryption overview at: https://www.hpe.com/info/sceo

Standard Features

Smart Storage Administrator (SSA) Management Tools

SSA GUI Management Tool

The Smart Storage Administrator is a Graphical User Interface (GUI) that enables you to monitor, maintain, troubleshoot, and configure SmartRAID (SR) storage controllers. The GUI displays the status of the controller, volumes, and drives. Additionally the tool offers an Array Diagnostic Report, and a SmartSSD Wear Gauge Report.

For more information visit: https://www.hpe.com/support/SSA-UG

SSA CLI Management Tool

The Smart Storage Administrator Command Line Interface (SSA CLI) tool is the command line management software designed for the SR product line. The SSACLI tool is designed to be easy to use, consistent, and easy to script.

For more information visit: https://www.hpe.com/support/SSACLI-UG

SSA Scripting Management Tool

The Smart Storage Administrator Scripting (SSASCRIPTING) is a command line scripting tool designed for the SR product line. The SSASCRIPTING tool is designed to capture, create, and clone the current SmartRAID configuration using INI or XML format.

For more information visit: https://www.hpe.com/support/SSACLI-UG

	MR Gen11 Controllers	SR Gen11 Controllers
Type	MegaRAID	SmartRAID
GUI Management Tool	✓ MR Storage Administrator	✓ Smart Storage Administrator
CLI Management Tool	✓ StorCLI	✓ SSA CLI / SSASCRIPTING

HPE SR Secure Encryption (optional license)

HPE SR Secure Encryption is a controller-based data encryption solution that protects sensitive, mission critical data. This is an enterprise-class encryption solution for data-at-rest on any volume attached to the SmartRAID controllers including data in the controller cache. Secure Encryption requires an optional license per server.

The solution is available for both local (LKM) and remote (RKM) key management. LKM is focused on single server deployment where there is one key per controller that is managed by the user. RKM is for enterprise-wide deployments from just a few servers to thousands of servers.

HPE Smart Array SR Secure Encryption (Data at Rest Encryption/per Server Entitlement) E-LTU Q2F26AAE

For more information please visit:

- https://www.hpe.com/psnow/doc/c04318075
- https://www.hpe.com/servers/secureencryption
- https://www.hpe.com/info/SCEO
- https://www.hpe.com/support/SR-Gen11-UG

Service and Support

For the most up-to-date information on HPE Services, please refer to the HPE Services – Supplemental QuickSpecs, which provides a comprehensive and regularly updated overview of available services.

Summary of Changes

Date	Version History	Action	Description of Change
21-Sep-2026	Version 5	Changed	QuickSpecs maintenance updates.
02-Feb-2026	Version 4	Changed	New branding applied to document.
04-Dec-2023	Version 3	Changed	Service and Support section was updated.
05-Jun-2023	Version 2	Changed	Standard Features section was updated.
05-Dec-2022	Version 1	New	New QuickSpecs.

Copyright

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