

HP Smart Array E200/E200i

Data sheet



HP E200/128MB with BBWC



HP E200/64MB

As organizations like yours address their growing storage needs, they are also facing changes within their computing needs. This means that you need a server configuration that is flexible and adaptable. You need a standard tool set for configuring, expanding and managing your array controllers. And you need it at an affordable price.

This new controller combines the benefits of better performance, increased server uptime, and proactive monitoring all while providing the investment protection customers have come to expect with HP's Smart Array family of controllers. The HP Smart Array E200/E200i is the first entry level controller utilizing PCI Express, and provides RAID 0, 1 and 1+0 support standard with an upgrade path to RAID 5 by adding Battery-Backed Write

Cache (BBWC). The E200i is the embedded version of this array controller that ships in select server units, based on your ordering specifications.

Key benefits

Entry-level performance

Combining SAS and HP's Smart Array controller architecture sets new boundaries of industry expectations. Data compatibility between models of HP Smart Array Controllers means customers can easily upgrade to future HP Smart Array and SAS products for higher performance, capacity and availability. Unlike competitive products, successive generations of HP Smart Array products understand the data format of other HP Smart Array controllers, providing investment protection for your HP storage solution.

The HP Smart Array E200/E200i is an entry-level controller that includes a standard tool set for the entire management of your array controllers, and provides you with quality performance and proactive monitoring.

Availability

The E200/E200i provides increased server uptime by providing advanced storage functionality.

- Online RAID Level Migration (between any RAID level) with BBWC
- Online Capacity Expansion with BBWC
- Logical Drive Capacity Extension with BBWC
- Global Online Spare
- Pre-Failure Warranty

Fault prevention

The following features offer detection of possible failures before they occur, allowing preventative action to be taken.

- Self-Monitoring Analysis and Reporting Technology (S.M.A.R.T.) first developed at HP detects possible hard disk failure before it occurs, allowing replacement of the component before failure occurs.
- Drive Parameter Tracking monitors drive operational parameters, predicting failure and notifying the administrator.
- Dynamic Sector Repairing continually performs background surface scans on the hard disk drives during inactive periods and automatically re-maps bad sectors, ensuring data integrity.

Fault recovery

Decreases downtime, reconstructs data and facilitates a quick recovery from drive failure.

- Up to two Online Spare drives can be installed prior to drive failure. If a failure occurs, recovery begins with an Online Spare and data is reconstructed automatically. *(Note: Online Spares can only be used with RAID level 1, 1+0, and 5).*

Ease-of-use

Consistency and upgradeability make the HP Smart Array family unique in the industry.

- GUI-based configuration, management and diagnostic software tools
- Common data format between generations of products
- Data migration between servers and external storage enclosures

HP Smart Array E200/E200i



Data compatibility	Yes, future SAS Smart Array controllers
Instant Upgrades to other Smart Array controllers	Yes, SAS Smart Array controllers
Consistent software management tools	Yes
PCI bus	PCIe x4
PCI peak data transfer rate	2Gb/s
SCSI protocol support	3Gb SAS/1.5Gb SATA
SCSI peak data transfer rate	3Gb/s per port
Channels	8 SAS ports
Connectors (external/internal)	0/2 x4
Drives supported (maximum)	8
Cache	64 MB DDR1- 266 RAM, with available 128 MB BBWC upgrade
RAID support	0, 1, 1+0 (optional 5)
Online spare support	Yes
BBWC enabler	Optional
I/O slot type	PCI-Express
Warranty	3-year

Ordering information

Part number/SKUs	Product name	Description
409180-B21	E200/64	SAS RAID controller card with 64 MB cache
411508-B21	E200/128 BBWC	SAS RAID controller card with 128 MB cache and BBWC
346914-B21*	128 MB BBWC upgrade with housing	This kit contains 128 MB, battery, cables and battery housing.
351580-B21*	128 MB BBWC upgrade	This kit contains the 128 MB module and battery.

* For compatibility information, please see the QuickSpecs for the E200/E200i on www.hp.com/products/smartarray

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HP services	<p>HP Care Pack Services offer upgraded service levels to extend and expand your standard product warranty with easy-to-buy, easy-to-use support packages, designed to make the most of your hardware and software investments. They let you choose the support levels that meet your business requirements—from basic to mission-critical—and help you contain total cost of ownership.</p> <p>HP Care Pack warranty extensions can be purchased along with HP products to cost-effectively upgrade or extend your warranty. For many products, post-warranty HP Care Pack Services are available when your original warranty has expired.</p>
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For more information	<p>For more information about the HP Smart Array E200/E200i, please contact your local HP representative, or visit us online at www.hp.com/products/smartarray</p>

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