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Hewlett Packard Enterprise HPE Support Center

HP Smart Array 6400 Controllers - Overview

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Product description



The Smart Array 6400 high performance Ultra320, PCI-X controller family provides maximum performance, flexibility, and reliable data protection for HP ProLiant servers, through its unique modular design and support for Advanced Data Guarding (RAID ADG). This new generation performance Smart Array controller again raises the standards of performance, introducing Double Data Rate (DDR) battery-backed write cache architecture and a new RAID engine.

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Product features

Feature	Description
Electrical Interface	LVD (Low Voltage Differential)
Protocol Support	Ultra320 SCSI (320 MB/s per channel)
SCSI Ports	2 channel model: 2 external/2 internal shared 4 channel model: 4 external/2 internal shared
Drives Supported	2 channel model: up to 28 drives 4 channel model: up to 56 drives
Maximum Capacity	2 channel model: 8.40TB (28 drives x 300GB) 4 channel model: 16.80TB (56 drives x 300GB)
PCI	PCI-X and 3.3 volt PCI compatibility only **NOTE:** The SA-6400 is not supported in 5 volt PCI slots.
PCI Bus Speed	64-bit/133-MHz PCI-X (1 GB/s maximum bandwidth)
Logical Drives	Up to 32 logical drives Up to 2 TB per Logical Drive
RAID Support	RAID ADG (Advanced Data Guarding) RAID 5 (Distributed Data Guarding) RAID 1+0 (Striping & Mirroring) RAID 0 (Striping)
Cache Memory	128-, 256-, 512-MB Read/Write ECC protection, battery-backed, and removable
Cache Batteries	Up to 4 days of redundant battery life, removable for easy replacement (3days with 256-MB Module, 1 day with 512-MB Module)
Upgradeable Firmware	2-MB flashable ROM
Disk Drive and Enclosure Protocol Support	Ultra320, Wide Ultra 3, Wide Ultra 2
Memory Addressing	64-bit, supporting servers memory greater than 4 GB

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Software overview

Feature	Description

Feature	Description
Operating Systems Compatibility	Microsoft® Windows® NT® 4.0, 2000
	NOTE: NT 4.0 support for U320 Expansion Module for the SA-6402 will not be available at launch
	Windows Server 2003 Novell NetWare 5.x, 6 SCO UnixWare® 7.1.1, 7.1.3 SCO Unix® 5.0.6a, 5.0.7 Red Hat Enterprise Linux SUSE Linux Enterprise Server NOTE:
	NOTE: For more Linux OS support & certification information, user can visit Server Operating Systems and Virtualisation Software website. Click here to access the Server Operating Systems and Virtualisation Software website .
Configuration/Diagnostic Utilities	HP Array Configuration Utility (ACU) • Powerful Web based configuration utility for all Smart Array controllers • Easy to use Wizards for configuration • Provides a graphical view of HP drive array configurations • Allows for management of multiple arrays over a secure internet connection from anywhere in the world • Runs online on Windows 2000, Windows Server 2003 and Linux Options ROM Configuration for Arrays • Rapid configuration upon initial install of the OS
Software Suite	All Smart Array products share a common set of configuration, management and diagnostic tools, including Array Configuration Utility (ACU), Array Diagnostic Utility (ADU), and Insight Manager. This software consistency of tools reduces the cost of training for each successive generation of product and takes much of the guesswork out of troubleshooting field problems. These tools lower the total cost of ownership by reducing training and technical expertise necessary to install and maintain the HP server storage. Systems Insight • Powerful server and server options/storage manager tool Manager • Monitors over 1200 server parameters

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Links to warranty information

Click here for detailed information regarding worldwide limited warranty and technical support .

Click here to check warranty status .

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Link to QuickSpecs

Information for this Overview is taken from the product QuickSpecs. To access the complete QuickSpecs for this product, select the desired link from the following list:

Click here to access the HP Smart Array 6400 Controllers Worldwide QuickSpecs in html format .

Click here to access the HP Smart Array 6400 Controllers Worldwide QuickSpecs in .pdf format .

Click here to access the QuickSpecs homepage, which provides access to the QuickSpecs for other regions/countries .

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