adaptec
by PMC

Customers Speak Out About Money-Saving Benefits of Adaptec Series 5Z RAID Controllers With Zero Maintenance Cache Protection

Savvy network administrators know that enabling a RAID controller's cache leads to significant gains in server performance. And, as server performance increases, networks can accommodate more users and more traffic without needing to add extra servers.

To protect cached data during power loss, RAID controllers typically employ battery backup units (BBUs), which require constant monitoring and can only preserve data for a maximum of 72 hours during power loss. Adaptec Series 5Z controllers with Zero-Maintenance Cache Protection (ZMCP) replace BBUs with 4GB of NAND flash memory that instantly saves cache contents during a power loss and can preserve the data for years without power. And, since there are no batteries, Series 5Z controllers are free from the installation, monitoring, maintenance, disposal, and replacement costs that accompany BBUs, and systems don't need to be shut down for battery replacement.

"As a mobile content service provider, we need to be online 24/7. Adaptec Series 5Z allows us to maintain maximum uptime without worrying about BBU failures or having to take systems offline to change batteries."

KLab Inc.
www.klab.jp

Highest Performance

Series 5Z controllers are built upon on our industry-leading Series 5 RAID controllers to clock in at speeds up to five times faster than the competition — over 250,000 IOPS and 1.2GB/s. They feature a dual core RAID on Chip (ROC), DDR2 533MHz write cache, and an x8 PCI Express host bus connection, and can support up to 256 SATA/SAS devices.

"We have been using ZMCP technology from Adaptec by PMC for the past year because it offers our customers significant advantages over standard BBU solutions. Since there are no batteries to replace, customers save on the costs and downtime associated with field maintenance, and can also extend the lifetime of their servers. Also, Adaptec RAID controllers with ZCMP store cache content a non volatile flash memory which gives a longer storage

period during a power outage than the three days that BBUs can provide."

Thomas-Krenn AG
www.thomas-krenn.com

Adaptec Intelligent Power Management

Series 5Z controllers are equipped with Intelligent Power Management (IPM) to slash power and cooling costs by up to 70% by combining intelligent I/O caching with disk drive power savings via standby and power-off modes.

"In our growing on-demand cloud computing environment, the loss of any mission-critical information found in controller cache — financial transactions, supply chain instructions, a customer order — during a power failure or any other type of system interruption, is particularly vulnerable and can be catastrophic to our customers and to our reputation. Adaptec's Series 5Z RAID controllers with Zero-Maintenance Cache Protection provide an easy, economical, and environmentally sound solution to virtually eliminate the possibility that loss of cached data will ever happen."

Softlayer
www.softlayer.com

Compatibility, Reliability, and Support

All controllers in the Series 5Z family are proven compatible with more than 300 third-party components and all major operating systems, including Windows, Linux, VMware and FreeBSD. The cards are backed by a 3-year warranty and Adaptec's legendary technical support.

"Adaptec by PMC leads the way in effortless implementation. As a system integrator and provider of server and storage solutions, we appreciate being able to install, set up and manage Adaptec controllers without spending countless hours on maintenance. We are especially impressed with the seamless compatibility that the controllers provide with our clients' existing infrastructure."

Happyware
www.happyware.com

▶ Product Highlights

- 1.2GHz Dual Core RAID on Chip (ROC)
- 4- and 8-port low-profile MD2
- Supports up to 256 SATA or SAS devices
- 3 Gb/s throughput at each port
- Intelligent Power Management
- Low Operating Costs
  - No installation, monitoring, maintenance, disposal or replacement costs due to batteries
- No data loss from power failures
  - Replaces lithium ion batteries
- Maintenance-free cached data protection
  - No need to monitor battery charge level
  - No shutdown required for battery replacement
  - Stores protected data for up to 10 years
- Instant RAID cache protection
  - Charges in minutes instead of hours
  - RAID performance optimized immediately
- Environmentally conscious
  - No toxic battery disposal
  - Simplified IATA compliance

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