



EcoStor™ and Data-In-Place Migration

SPECIFICATION SHEET

Combined Investment and Environmental Protection
with unique Data-In-Place Migration from Dot Hill® Systems

Dot Hill's Storage Solutions Highlights

- Upgrade to from an entry level storage system to an enterprise class product family through seamless upgrades without disruption to your existing disk storage
- Protect the environment through extending the use of your data storage investments
- Unique Battery-free cache backup with EcoStor™ technology protecting the environment and reducing service costs
- Built-in Data Management features including snapshot capability with AssuredSnap™ and AssuredCopy™
- Seamless upgrades to future advanced Data Management features
- Windows, Linux and UNIX support (Cluster-certified)
- N+1 Redundant, hot swap components throughout
- Dual or single RAID controller or JBOD configurations

Upgrade seamlessly from an Entry to Enterprise class solution

With traditional RAID array based storage solutions an upgrade from an entry level solution to a far more powerful enterprise class product family typically involves a fork-lift upgrade of the entire infrastructure resulting in the write-off of valuable hardware investments and also an impact on the environment through equipment disposal.

Extend the Life of Your Storage Solution

With our distinctive approach to product development, Dot Hill sets a new industry standard for investment protection with the unique R/Evolution® modular system architecture which enables Data-In-Place Migration from the 2000 Series to the 5000 Series enterprise class solutions, without disruption to your existing data storage infrastructure or host software applications.

How Data-In-Place Migration Works

The modular architecture facilitates the simple upgrade from an entry level product family to an enterprise product family providing increased performance, capacity and new advanced Data Management features. This is achieved through the upgrade of a self-contained controller module while all expansion enclosures and disks remain intact. Existing entry level solutions can then continue to grow in capacity and performance while mapping to all your current physical data storage.

Together, Dot Hill's entry level and enterprise class storage solutions allow your storage infrastructure to grow seamlessly to meet your business needs with complete investment protection.

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Reuse, recycle



EVOLUTION™
RAPID EVOLUTION

Dot Hill's EcoStor™ - Innovative power-failure data protection

Traditional RAID storage array designs use internal batteries to provide charge to hold the contents of RAID cache in memory in the event of a power failure. A fully charged cache battery can be expected to hold this data in memory for a maximum of perhaps 72 hours. If power is not restored within this time, the cache data that was waiting to be flushed to a disk drive will be irretrievably lost. This is a best case however - batteries have a finite life and their performance deteriorates over time giving unpredictable support to the data held in cache.

A major problem with cache batteries is the time taken to fully recharge after a power failure, during the recharge time which can be in the order of hours the cache data is no longer fully protected; a big issue in the event of intermittent power failures. Dot Hill eliminates cache batteries completely using patented EcoStor™ technology which copies cache data into a permanent memory flash card so that data is never lost no matter how long the power outage. It also provides almost immediate cache data protection when supply power is restored.

Make the move to environmentally friendly data protection with Dot Hill

The typical life of a RAID cache battery in a conventional disk array is two years, after that time it will need to be replaced resulting in service costs plus addition of further toxic waste to ever increasing landfill sites. Both the 2000 Series and the 5000 Series arrays with EcoStor™ use super capacitor technology to protect cache data which has a typical useful life of 10 years.

In addition, every 2000 Series and 5000 Series product from Dot Hill, including the material used in super capacitor technology, is fully compliant with global waste disposal directives such as RoHS and WEEE providing truly environmentally friendly data protection.

Dot Hill 2000 Series

12-drive arrays housed in 2 rack-unit (RU) enclosures providing a choice of interface options (FC, SAS or iSCSI) and internal SAS or SATA-II disk drive configurations. An internal SAS interface allows up to five disk enclosures (including the RAID enclosure) delivering a total of 56 drives.

Flexible Host Interface Options

- 2/4Gb Fibre Channel (2730T)
- 2/4Gb Fibre Channel (2730)
- 3Gb SAS (2530)
- 1Gb iSCSI (2330)

Built in Redundancy

- RAID 0, 1, 3, 5, 6, 10, 50
- Redundant, hot swap components
- AssuredSnap™ - Built-in snapshot capability
- AssuredCopy™ - Built-in volume copy capability
- Built-in schedule capability

Scalability and Performance

- Dual or single RAID controller or JBOD
- Scales to 56TB utilizing 1TB SATA drives

Compliance

- RoHS-5 and WEEE compliant

Dot Hill 5000 Series

12-drive arrays housed in a 2 rack-unit (2U) enclosure providing 4Gb FC interfaces to internal SAS or SATA-II disk drives. The use of a dual internal SAS interface allows up to nine disk enclosures (including the RAID enclosure) delivering a total of 108 drives.

Host Interface Options

- Data rates up to 4Gb/sec (Fibre Channel)

Built in Redundancy

- in common with the 2000 Series

Scalability and Performance

- Dual RAID controller or JBOD
- 12TB base capacity that scales to 108TB

Compliance and Certifications

- RoHS-5 and WEEE compliant
- Certified to NEBS Level 3 requirements
- Tested to meet MIL-STD 810F requirements for Land, Sea and Air deployment.