

Environmentally Friendly

EcoStor™, Data-in-place Migration, Drive-spin-down

AssuredSAN™ HIGHLIGHTS

- Upgrade to the latest AssuredSAN storage system 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
- Certified with VMware, Microsoft and Citrix
- Redundant, hot swap components throughout
- Dual or single RAID controller or JBOD configurations



ENVIRONMENTAL PROTECTION AND INVESTMENT PROTECTION

Upgrade seamlessly from one AssuredSAN™ solution to the next generation hardware. With traditional RAID array based storage solutions an upgrade from an entry level solution to a more powerful 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 modular system architecture which enables Data-In-Place Migration from one AssuredSAN Series to another - 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 Assured SAN 2000 or 2002 Series to the newer AssuredSAN 3000 Series, 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 solutions can then continue to grow in capacity and performance while mapping to all your current physical data storage.

Together, Dot Hill's AssuredSAN storage solutions allow your storage infrastructure to grow seamlessly to meet your business needs with complete investment protection.

EcoStor™ - Patented, protection from power failures

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.



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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 cache protection

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.

EcoStor technology typically protects cache data for up to ten years and is used in all AssuredSAN models.

In addition, all AssuredSAN products 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.

AssuredSAN 3000 Series - Smart.Simple.Storage.

The AssuredSAN arrays are equipped with 2.5-inch drives or 3.5-inch drives, supporting mixed-drive configurations of SAS, SATA, and SSDs. AssuredSAN 3000 arrays also feature a number of eco-friendly enhancements such as energy saving drive-spin-down which saves power by allowing drives to rest during non-peak hours, and Dot Hill's patented EcoStor™ battery-free alternative for cache memory, which leverages a combination of super capacitors and flash memory that outlasts traditional batteries nearly fivefold.

The AssuredSAN 3000 Series arrays are easy to configure and manage via the RAIDar 2.0 intuitive web based interface which provides storage setup and monitoring without the need for host-based software. AssuredSAN users gain configuration and installation efficiencies via wizards and schedulers for snapshots and replication.

AssuredSnap™, AssuredCopy™ and AssuredRemote™ data protection software is available with the AssuredSAN 3000 Series, offering excellent tools to support business continuity. AssuredSnap and AssuredCopy data protection software also provide out-of-the-box tools to maximize development team collaboration through non-disruptive, isolated copies of source data that can be processed in parallel, rapidly accelerating development cycles.

The AssuredSAN 3000 external RAID systems can deliver up to 36TB of storage in a single 12 drive 2U chassis using 3TB SATA drives. The systems can be expanded if required to a total of 8 chassis which currently offers up to 288TB when using 96 3TB SATA drives.

