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nexsan TECHNOLOGIES

SATABEAST

ABOUT SATABEAST

Unleash the power of the SATABeast™ extreme density storage array from Nexsan Technologies. Designed from the ground up to set new standards for high-capacity storage systems, SATABeast delivers the industry's best performance and cost-effectiveness in a scalable disk solution. With unparalleled density, availability and energy efficiency, SATABeast maximizes the return on your storage hardware investment.

UNLEASH THE BEAST

For all your storage requirements Including:

Primary Storage. Designed for enterprise class environments where reliability is an absolute, SATABeast's high availability architecture features full redundancy across all active components. Blazing wire-speed read/write throughput and high IOPS performance make SATABeast the perfect choice for data-intensive applications.

D2D - Disk to Disk Backup. Online access to data means superior business continuity. With SATABeast you no longer need to store important data on slow and inaccessible media such as tape or optical. SATABeast provides the speed, fault tolerance and availability to deliver superior disk-based backup with a smaller footprint and less cost than tape libraries.

Secondary Storage. The enterprise class features and performance of the SATABeast enable large file repositories for thousands of users to be stored on a single system. Completely OS independent, SATABeast requires no drivers and easily integrates into existing storage infrastructures.

Fixed Content Archive. The unmatched capacity of the SATABeast easily handles enormous volumes of files. With its energy saving AutoMAID™ technology, SATABeast enables massive archives to be cost-effectively stored and instantly accessed.

HIGHLIGHTS

- Enterprise class storage array built around the latest high-capacity SATA disk drives.
- Completely OS independent. No special software drivers or server-based management applications required.
- High performance – over 700 MB/s sustained throughput
- Reduced energy consumption and costs through AutoMAID™ technology.
- Online SATABeast delivers access to data up to 500 times faster than tape libraries and 20x faster than other MAID systems.
- All active components are redundant and individually hot-swappable
- WorldView™ - Provides ability to manage and configure multiple Nexsan units from a single GUI
- Highest density per rack inch
- Anti-Accumulative Rotational Vibration (ARV) design enables maximum drive reliability.

HIGH PERFORMANCE EXTREME DENSITY STORAGE SYSTEM

SATABEAST

UNLEASH THE POWER OF THE BEAST

KEY BENEFITS

With SATABeast, Nexsan engineers have architected the industry's most complete and cost-effective high capacity storage system. SATABeast's advanced mechanical design provides superior cooling for optimal thermal operation, reduces drive vibration and delivers outstanding energy efficiency in an extreme density (42 drives in 4U high) form factor. SATABeast's unique design extends individual drive life and provides TCO savings year over year.

Nexsan's award-winning Performance SATA™ RAID controller design provides extremely high throughput performance across 42 spindles that can be segmented into multiple RAID sets or a single large storage pool. LUN Mapping allows users to easily configure the massive disk capacity for dozens of servers or one.

SATABeast employs Nexsan's revolutionary AutoMAID™ energy saving technology. AutoMAID transparently places SATABeast disk drives in an idle state reducing power consumption and operational costs. AutoMAID delivers the cost-saving benefits of MAID (Massive Array of Idle Disks) without the limitations of slow access times and special host software. Nexsan's AutoMAID is granular to an individual drive or RAID set and enables users to determine the level of access speed and energy savings desired. AutoMAID is the first MAID architecture that supports VTL (Virtual Tape Libraries), full file format D2D and standard RAID implementations.

SATABeast performs continuous background integrity scans to ensure drive health and data accessibility. Each controller features full cache coherency to maintain data integrity even in the event of a power loss.

All individual SATABeast components are fully redundant and hot swappable. This advanced design provides increased ROI by eliminating the need to replace an entire multi-drive blade should a single drive fail.

SATABeast's NexScan management interface is built into the SATABeast controller, alleviating the need to have a separate server or application manage the storage array. This sophisticated management utility monitors and reports the status of all subsystems over a 10/100/1000-network port. Included in NexScan are Tele-Guard™, Nexsan's phone-home feature for user notification of errors or prediction of error, and WorldView, our multi-box management feature.



TECHNICAL SPECIFICATIONS

- Up to 42 SATA drives in 4U high box (27" deep). Easily fits a standard 19" server rack.
- Single or dual redundant RAID controllers
- Dual 2Gb Fibre Channel SFP LC host ports per controller
- Auto-negotiating host speed
- Up to 2GB cache per controller
- Supports RAID 0, 1, 1+0, 3 and 5
- Supports multiple RAID sets and multiple volumes per set
- Features LUN security
- Horizontal midplane design promotes superior airflow and alleviates insertion stress points
- Highly scalable with internal capacity expansion
- Embedded web-browsable GUI over 10/100/1000 port, supports email alerts and SNMP traps
- RS-232 Management port
- Hot pluggable drives, controllers, and power supplies
- Supports up to 32 LUNS per controller
- Two redundant 760 watt power supplies with tachometer-monitored blowers to provide maximum power and cooling.

Specifications subject to change

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