SATABeast™

Enterprise Class Disk Vault ▪ ▪ ▪ ▪

HIGHLIGHTS

- Enterprise class storage array built around the latest high-capacity SATA disk drives.

- Energy and cost savings through AutoMAID™ technology

- Highest density per rack inch – 10.5 drives per 1 rack unit

- OS independent. No special software or management applications required.

- Highest performance - over 800 MB/s sustained throughput

- Online SATABeast delivers access to data up to 500 times faster than tape libraries and 20x faster than other MAID systems.

- Every component is redundant with individual components online hot swappable

- WorldView™ - Provides ability to manage and configure multiple units from a single GUI

- High IOPS performance -- all 42 drives can be active simultaneously

- Anti-Accumulative Rotational Vibration design enables maximum drive reliability.

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 single, scalable solution. With unparalleled density, availability and energy efficiency, SATABeast maximizes the return on your storage hardware investment.

UNPRECEDENTED ENERGY SAVINGS

Nexsan delivers the first high performance, high capacity RAID storage systems to also offer the energy saving benefits of AutoMAID™ technology. AutoMAID™ (Massive Array of Idle Disks) allows SATABeast to place its disk drives to an idle state to conserve energy yet provide near-instantaneous access to data. AutoMAID™ is granular to the individual drive level and enables users to determine the level of energy savings desired.

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.

Secondary Storage and D2D - Disk to Disk Backup. Online access to data means superior business continuity. The SATABeast provides the speed, fault tolerance and high availability to deliver superior data protection while its unmatched capacity easily handles enormous volumes of files. SATABeast enables unprecedented amounts of data to be cost-effectively stored and instantly accessed.

HIGH PERFORMANCE ACROSS BOTH FIBRE CHANNEL AND ISCSI

SATABeast gives users the flexibility to utilize Fibre Channel or iSCSI connectivity or both simultaneously. Flexible, scalable and completely OS independent, SATABeast offers dual function FC and iSCSI connectivity with wire-speed through-put performance.

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.

SATABeast's unique combination of technologies delivers unsurpassed performance, reliability and cost savings for a broad range of storage requirements. With an extreme density design that provides a compact footprint and scales to hundreds of terabytes of capacity in a single rack, SATABeast easily meets the demands of the most capacity-hungry storage environments.

Dual controllers using Nexsan's award winning Performance SATA™ design provide blistering throughput performance with 42 spindles that can be segmented into multiple RAID sets or a single large storage pool.

All individual SATABeast components are fully redundant and hot swappable.

SATABeast has full cache coherency design to ensure data integrity even with power loss.

The 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 our WorldView feature enables multi-box management.

LUN Mapping allows users to easily configure the massive disk capacity for dozens of servers or one.

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nexsan
TECHNOLOGIES

TECHNICAL SPECIFICATIONS

- Up to 42 SATA drives in 4U high box (29" deep). Easily fits a standard 19" server rack.

- Single or dual active/active RAID controllers

- Dual 4Gb Fibre Channel SFP LC host and Dual iSCSI ports per controller

- Auto-negotiating host speed

- Up to 2GB cache per controller

- Supports RAID 0, 1, 1+0, 4, 5, and 6

- Supports multiple RAID sets and multiple volumes per set

- Features LUN security

- Horizontal midplane design promotes superior airflow and alleviates insertion stress points

- Fully 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.

Easy drive replacement — 42 drives in 4U

Revolutionary cooling system