nexsan®

NXS-B60E™

60 Disks in only 4U - Expansion Unit

HIGHLIGHTS

• Highest density per rack inch with 60 disks in a 4U chassis

• Compatible with SATABeast or SASBeast equipped with an 8Gbit FC Controller

• Unique active drawer technology delivers greater reliability and ease of use

• AutoMAID® delivers "Speed with Green" with up to 87% reduction in power consumption without performance compromise

• Combine SATA and SAS disks when connected to SASBeast for superior application flexibility

• Up to four 12Gbit SAS high speed connections deliver enterprise-class performance when connected to SATABeast/SASBeast

• Horizontal mid-plane design ensures maximum cooling for optimal operating conditions

• Anti-Accumulative Rotational Vibration design maximizes disk reliability

• All active components (expansion interface modules, fans, power supplies and disks) are redundant and individually hot-swappable to ensure continuous operation

• Seamlessly managed via the SATABeast/SASBeast GUI

• No special tools or downtime required to add capacity to the chassis, simply plug required disk drives into any unused disk bay

• Includes all cables, active-capacity drawers and mounting rails

ABOUT NXS-B60E

Storage efficiency just made a big leap forward with a 120TB solution so small, so efficient, so reliable, you will barely know it's there. For the ultimate in high capacity, high density and power efficiency, the NXS-B60E™ expansion unit delivers 60 disks in only 4U of rack space to give IT professionals the most storage in the smallest footprint with enterprise-class reliability and stellar ease of use.

By attaching the NXS-B60E expansion unit to Nexsan's SATABeast® or SASBeast™ storage systems, organizations are able to achieve new levels of efficiency with the ability to add more capacity while lowering power, space and cost requirements. When compared against typical arrays, the NXS-B60E delivers 3X the capacity, takes up 1/3 the space and consumes up to 87% less energy, resulting in an additional 87% reduction in cooling requirements. The net accumulation of NXS-B60E efficiency exponentially displaces cost requirements and carbon production.

EXTREME DENSITY

The NXS-B60E boasts the most revolutionary approach to extreme density for maximum reliability and ease of use with 3 self-contained disk drawers. Each active drawer contains 20 SAS/SATA disk bays and tachometer controlled push and pull fan modules. Specially designed cables enable continuous operation even when a drawer is momentarily pulled out to perform easy disk and fan service. Overcoming the challenges of other extreme density offerings, the NXS-B60E is safely and easily serviced by one person.

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POWER EFFICIENCY

With up to 87% reduction in power, NXS-B60E leverages Nexsan's exclusive AutoMAID® technology to deliver significant carbon and cost reductions. Only AutoMAID can deliver "Speed with Green" - energy savings without compromise to storage performance. AutoMAID places disks in an idle state during inactivity while providing near-instantaneous access to data when needed to uniquely deliver the benefits of green without the limitations.

The NXS-B60E supports four levels of AutoMAID power management. Customizable access policies are easily configured to ensure the perfect balance between energy savings and response times to the first I/O request. AutoMAID Level-1 delivers 20% power reduction with sub-second response, making it ideal for performance intensive environments. AutoMAID Level-4 delivers 87% power reduction, making it ideal for organizations in need of the greenest solution possible. As with every AutoMAID level, once the first I/O is served, all subsequent I/Os are delivered at full speed until enough inactivity triggers sleep migration.

CONNECTIVITY

The NXS-B60E is connected to the SATABeast or SASBeast via the expansion interface ports available on the 8Gbit FC Beast controllers. Each NXS-B60E expansion interface module has two dual-redundant 12Gbit SAS ports which connect to the two dual-redundant 12Gbit SAS ports on the Beast 8Gbit FC controller. Two modules are used to provide a higher level of continuous access.

MANAGEMENT

The NXS-B60E is managed entirely by the SASBeast and SATABeast NexScan® management interface. NexScan is built into the Beast controllers, alleviating the need to have a separate server or application manage the NXS-B60E. This sophisticated management utility monitors and reports the status of all NXS-B60E components and allows users to create RAID sets within the NXS-B60E drawers or even across multiple drawers. LUN mapping allows users to easily configure the massive disk capacity for dozens of servers. Included in NexScan is Tele-Guard®, Nexsan's phone-home feature for user notification of errors or prediction of errors. Additional management software is also available to allow multiple Nexsan systems to be managed through a single interface. Management of this much capacity has never been so easy.

TECHNICAL SPECIFICATIONS

- 4U / 60 disk RAID system

- SATA, SAS or SATA+SAS drive combinations

- 3 self-contained active drawers populated with 20 disk drives per drawer; each drawer is serviceable without operation disruption

- Two dual-redundant 12Gbit SAS ports per expansion interface module provide connectivity to the Beast 8Gbit FC Controller

- Dual redundant 1600W load-sharing 200V to 264V power supplies

- All active components (expansion interface modules, fans, power supplies and disks) are redundant and individually hot-swappable to ensure continuous operation

- Managed via the SATABeast/ SASBeast GUI

- For a full list of specifications, see the NXS-B60E technical specifications sheet

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