NEXSAN E60™
60 DISKS IN ONLY 4U

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ABOUT NEXSAN E60™

Storage efficiency just made a big leap forward with a 180TB 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 Nexsan E60™ 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.

The E60 enables organizations to achieve never-before-seen levels of efficiency with the ability to add more capacity while lowering power, space and overall cost requirements. Relative to comparable storage systems, the E60 requires only 1/3 of the rack space. Active Drawer Technology™ makes servicing the drives a breeze, and keeps them online when the drawer is open, eliminating the need to power down for maintenance. AutoMAID® level 4 power savings technology places drives into low power states when they are not being accessed, saving up to 85% on power and cooling expenses.

CONNECTIVITY AND DRIVES

The powerful Nexsan E-Series™ RAID controller contains 4GB of battery backed cache with up to four 8Gbit Fibre Channel ports and four 1Gbit iSCSI ports that can be used simultaneously. By utilizing SATA, SAS, or SSD drives, users can use the E60 to meet capacity or performance driven applications.

EXTREME DENSITY

The E60 boasts the most revolutionary approach to extreme density management with its unique Active Drawer Technology™. Three self-contained disk drawers include 20 SAS/SATA disk drives with tachometer controlled push/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 E60 is safely and easily serviced by one person.

RELIABILITY AND PERFORMANCE

With blazing wire-speed read/write throughput and high IOPS performance, the E60 is the perfect choice for data intensive requirements. The E60 also provides exceptional data protection and fault tolerance as all active components are fully redundant and hot-swappable. Top-tier mechanical design efficiently removes heat and vibration from the chassis to ensure the E60 meets and exceeds the most stringent reliability demands.

DATA SHEET

HIGHLIGHTS

- **Highest Density per Rack Inch** – 60 disks in a 4U chassis
- **High Performance** – utilizes Nexsan's latest Nexsan E-Series™ RAID controller technology
- **Performance or Capacity** – mix and match SATA, SAS, and SSD drives
- **Active Drawer Technology™** – active drawers allow for easy, hot-swappable management of extreme density
- **High Availability** – all active components (RAID controllers, fans, power supplies and disks) are redundant and hot-swappable to ensure continuous operation
- **Energy Efficient** – Energy Efficient – AutoMAID level 4 delivers up to 85% reduction in power consumption without performance compromise
- **Anti-Vibration Design** – maximizes disk life and reduces component wear
- **Cool Drive Technology™** – horizontal mid-plane design optimizes airflow and cooling
- **Flexible Connectivity** – connect via FC or iSCSI; connect simultaneously
- **Easy to Manage** – browser-based management interface is OS independent. Nexsan Storage Tools make it easy to remotely manage one or many systems within a single, intuitive GUI

Note: a 1200mm rack is recommended for mounting the E60

UNPRECEDENTED ENERGY SAVINGS

Nexsan's exclusive AutoMAID® level 4 technology delivers up to 85% energy savings. Each disk group can easily be assigned a power savings policy with the Web-based management interface. When a disk group is not accessed for a specified time period, it can be put into a lower power-consuming state, saving up to 85% on power and cooling bills. For instance, in scientific computing applications, when workers go home, disks can be powered down. On first access, they are spun up and stay spinning. In backup to disk applications, drives can be powered down when backups are not being performed. No changes to applications or manual intervention is required to get the benefits of AutoMAID level 4.

EASY MANAGEMENT

The NexScan® management interface is built into the E60 controller, alleviating the need to have a separate server or application manage the storage array. This sophisticated, browser-based management GUI monitors and reports the status of all E60 components over an IP network and includes a phone-home feature for notification of system status.

COMMON APPLICATIONS

Common applications for the E60 include: Data Protection - storing large amounts of local data backups on disk instead of tape as well as storing a copy of data offsite. Long-term, Bulk Storage - maintaining large amounts of information online. For performance driven applications, IT professionals can leverage SAS drives in the E60 for their Tier-1 instances.

TECHNICAL SPECIFICATIONS

- 3 active disk drawers containing 20 disks in each in 4U of space
- Single or dual active/active RAID controllers
- Dual Fibre Channel SFP LC host and dual iSCSI ports per controller
- 4GB of battery-protected cache per controller
- Supports RAID 0, 1, 1+0, 4, 5, and 6
- RAID 6 support via dedicated hardware accelerator
- Supports multiple RAID sets and multiple volumes per set with full LUN security and up to 254 LUNS per system
- Embedded browser based GUI supports email alerts and SNMP traps
- RS-232 Management port
- Dual redundant 220-240V power supplies