



NEXSAN E18™

18 DISKS IN ONLY 2U

You don't have to be an Einstein to recognize a quantum leap. 18 disks in 2U of space.

OVERVIEW

The Nexsan E18™ is a block-level RAID storage system, representing a quantum leap in storage performance, density and efficiency with 18 SAS, SATA, or SSD disks in only 2U of rack space. The new Nexsan E-Series™ RAID controller delivers blazing performance and enterprise-class reliability, making the E18 the perfect storage solution for virtualized environments, databases, backup to disk, or general applications demanding high performance and top-tier reliability.

With never-before-seen efficiencies, the E18 allows organizations to add more capacity while lowering overall power, space and cost requirements. Relative to comparable storage systems, the E18 requires only 1/2 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.

HIGH PERFORMANCE

Available in single or dual controller configurations, the powerful E-Series controller contains 2GB of battery-backed cache with dual RAID engines to deliver blazing performance. Two 8Gbit FC ports and two 1Gbit iSCSI ports can be used simultaneously to support multiple workloads on a single, small array.

ENTERPRISE-CLASS RELIABILITY

The E18 meets the strictest business continuity demands with high availability features like full redundancy across all active components, including power supplies, ports, controllers, fans and disks. RAID sets can be automatically rebuilt with hot spares. Multi-path architecture ensures no single point of failure. State-of-the-art vibration dampening and air cooling channels ensure leading reliability.



DATA SHEET

HIGHLIGHTS

- **Extreme Density** – 18 disks in 2U of rack space
- **Mix and Match Drives** – supports SATA, SAS, and SSD drives simultaneously
- **Energy-efficient** – up to 85% reduction in power and cooling with AutoMAID level 4
- **Active Drawer Technology** – active disk drawers enable easy, hot-swappable management of extreme density
- **High Availability** – all active components are redundant and hot-swappable
- **Anti-Vibration Design** – state-of-the-art vibration dampening maximizes reliability
- **Cool Drive Technology™** – push/pull fans modules and specially designed air channels optimizes drive cooling and reliability
- **Flexible Connectivity** – FC and iSCSI connectivity; use both at the same time
- **Easy to Manage** – OS independent, browser-based interface; remotely manage one or many systems
- **Turn-key System** – includes all cables, active drawers, mounting kit and management software

TECHNICAL SPECIFICATIONS

- 2 active drawers containing 9 drives in each
- Single or dual active/active RAID controllers
- Dual Fibre Channel SFP LC host and dual iSCSI ports per controller
- 2GB of battery and flash protected DDR3 cache per controller
- Supports RAID 0, 1, 1+0, 4, 5 and 6
- Supports multiple RAID sets and multiple volumes per set; up to 254 LUNS
- Features LUN security
- Embedded web-browser GUI; supports email alerts and SNMP traps; includes RS-232 management port

EXTREME DENSITY

The E18's unique Active Drawer Technology™ represents the most innovative approach to high density management with two self-contained disk drawers. Each active drawer contains 9 disks 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 or fan service.

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.

HIGH PERFORMANCE ACROSS BOTH FIBRE CHANNEL AND ISCSI

E18 gives users the flexibility to utilize Fibre Channel or iSCSI connectivity or both simultaneously. Flexible, scalable and completely OS independent, E18 offers dual function FC and iSCSI connectivity with wire-speed throughput performance.

EASY MANAGEMENT

All Nexsan disk arrays come standard with a software suite that provides comprehensive storage management. Nexsan Storage Manager makes management easy with a single, intuitive browser-based interface. All local and remote Nexsan storage products can be easily and securely managed and monitored. Windows users can utilize Microsoft's storage management tools to perform common administrative tasks, thanks to VDS-compliance. Integration with Microsoft Multi-path I/O (MPIO), as well as multi-path for Linux, OS X, the E18 delivers higher performance and fault tolerance. With the Nexsan QuickStart configuration wizard, the disk array can be up and running in under 10 minutes. Customizations are a breeze with the Nexsan Storage Manager GUI.

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