NEXSAN

E-SERIES V
EFFICIENT, VERSATILE MODULAR STORAGE
DATA SHEET

Reliable High Density Storage Arrays Turbocharged for High Performance.

PRESENT PERFECT. FUTURE READY.
THE NEXSAN E-SERIES V STORAGE PLATFORM.

The Nexsan E-Series V is an ultra-reliable, high-density, high performance, efficient storage system that enables organizations to lower their content storage costs, maximize storage uptime, and boost data storage ROI.

The E-Series V storage arrays and expansion units offer mid-size organizations affordable enterprise-level Fibre Channel, SAS and/or iSCSI SAN storage used for a variety of capacity-optimized and performance-driven applications. For larger organizations, E-Series V is a versatile SAN or DAS solution to stay ahead of the enormous data growth, demanding workloads, and high resiliency requirements in media & entertainment, government, healthcare, HPC, financial, surveillance and service provider sectors.

TURBOCHARGED PERFORMANCE

E-Series V features an advanced active/active controller design, including use of a dedicated hardware engine, or "turbocharger", which accelerates RAID parity generation and doubles the sequential write performance over the prior version of E-Series. The turbocharged E-Series V is ideal for back-up/recovery applications and continuous data streaming bulk storage applications.

HIGH-DENSITY, POWER EFFICIENT

Organizations deploying E-Series V systems are able to mix and match capacity-optimized HDDs, performance-optimized HDDs and SSDs to accommodate applications based on performance or capacity needs. E-Series V systems consume less than one-third of the power in one-third of the rack space of typical arrays, with up to 480 terabytes of capacity in just one 4U, and up to a total of 1.44 PB in a fully-scaled, 12U configuration. Users of E-Series V systems can engage Nexsan AutoMAID™ disk management capabilities to reduce power consumption by up to 87 percent, reducing operating expenses and extending the overall life of the system.

ULTRA-RELIABLE

E-Series V systems exceed the most stringent reliability demands, leveraging an innovative mechanical design including Cool Drive Technology™ and anti-vibration design that significantly reduce heat and vibration in the unit while improving system reliability and performance. The reliability of E-Series V is qualified through extensive stress testing before shipment. Array-based snaps and asynchronous replication extend E-Series V data protection capabilities.

HIGHLIGHTS

- **Reliability** – featuring Anti-vibration design and Cool Drive Technology™

- **Availability** – using Active Drawer Technology™ and redundant hot swappable active components

- **Density** – up to 60 drives in 4U

- **High Performance** – utilizes Nexsan's latest multi RAID engine controller technology

- **Energy Efficient** – delivering up to 87% reduction in power while lowering your cooling needs through the use of AutoMAID™

- **Encryption** – AES 256 hardware based encryption

- **Flexible Connectivity** – connecting via SAS, Fibre Channel or iSCSI

- **Easy to Manage** – remotely managing one or many systems within a single, intuitive GUI.

ENCRYPTION AT REST

E-Series encryption is configured to automatically encrypt data by using self-encryption drives (SED) with AES-256 encryption, so you know that data at rest is fully protected. The E-Series management interface allows the encryption/decryption process to be transparent and does not compromise performance. To prevent unauthorized access to the data, the storage system must authenticate itself with the drive using an authentication key that is established upon the first time use of the drive. The encryption key is managed by the controller, so no key management is required by the user. With optional FIPS 140-2 level 2 certified self-encrypting drives, the E-Series FIPS SED allows you to meet regulatory and compliance needs for securing data at rest. E-Series SED provides the security you need without forgoing performance or usability.

Re-purpose or retire your storage without compromising data by allowing E-series to cryptographically erase all encrypted data.

HIGHLY RESILIENT, CONTINUOUSLY AVAILABLE

The E-Series system features high-availability architecture, with multipathing support and dual redundant, hot-swappable active components. SNMP alerts or email notifications are sent to the administrator in the event of a component failure and upon a drive failure a spare drive is automatically rebuilt into the RAID set. With up to 16GB of battery-backed and flash-protected cache per controller, the E-Series solution mirrors cache between controllers in a dual controller configuration. Active Drawer Technology™ overcomes the challenges of competitive arrays by allowing a single drawer of drives to be pulled out and serviced easily while keeping your data available.

E-SERIES V MODEL AVAILABILITY

E-Series V is offered in four core configurations with available expansion units:
- **E60VT (480 TB in 4U)**
- **E48VT (384 TB in 4U)**
- **E32V (57.6TB in 2U, 2.5" drives only)**
- **E18V (144 TB in 2U)**

ABOUT NEXSAN

Nexsan is a global leader in storage, back up and data management solutions that are focused on seamlessly and securely enabling a connected workforce. Its broad solution portfolio empowers enterprises to securely store, protect and manage valuable business data – allowing users to sync, share and access files from any device, anywhere, anytime. www.nexsan.com