

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 360 terabytes of capacity in just one 4U, and up to a total of 1.08 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.

For more information, download the Snap & Replication data sheet.

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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 Imation'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[™]
- **Flexible Connectivity** – connecting via SAS, Fibre Channel or iSCSI
- **Easy to Manage** – remotely managing one or many systems within a single, intuitive GUI.

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 (360 TB in 4U)**
- **E48VT (288 TB in 4U)**
- **E32V (38.4TB in 2U, 2.5" drives only)**
- **E18V (108 TB in 2U)**

NEXSAN Research by **TechValidate**

Nexsan E-Series Customer Statistic

95% of surveyed IT organizations' respondents are likely to recommend Nexsan E-Series to a colleague.

Source: Survey of 133 users of Nexsan Storage
www.techvalidate.com/product-research/nexsan-storage TVD: 51D-9A4-910



	E18V	E32V	E48VT	E60VT
System Form Factor	2U 18 drives	2U 32* drives	4U 48 drive	4U 60 drives
Max Number of Drives	54	96	144	180
Raw Storage (Max)	324TB	115.2TB	864TB	1.08PB
Controllers (Max)	2			
Cache/Controller (Max)	4GB	4GB	16GB	16GB
Drive Types**	7.2K SAS, 10K SAS, 15K SAS, SSD			
RAID Levels	0, 1, 1+0, 4, 5, 6			
Network Protocols	1GbE/10GbE iSCSI 8Gb FC 6Gb SAS 16Gb FC			
Dimensions – Height	3.47 in 8.81 cm	3.47 in 8.81 cm	6.93 in 17.6 cm	6.93 in 17.6 cm
Dimensions – Depth	31.5 in 80.00 cm	31.5 in 80.00 cm	33.46 in 85.0 cm	37.99 in 96.5 cm
Dimensions – Depth w/ Front Bezel	32.82 in 83.4 cm	32.82 in 83.4 cm	35.63 in 90.5 cm	40.16 in 102 cm
Dimensions – Depth w/ Front Bezel and rear handles	33.27 in 84.5 cm	33.27 in 84.5 cm	36.06 in 91.6 cm	40.59 in 103.1 cm
Maximum Weight w/drives & rails	108.2 lbs 49.1 kg	90.2 lbs 40.9 kg	201.1 lbs 91.2 kg	235.5 lbs 106.8 kg
Operating Temperature Range	5°C to 30°C 41°F to 86°F		5°C to 35°C 41°F to 95°F	
Operating Humidity Range	20% to 80% non-condensing			
Operating Altitude	0 to 2,133 m 0 to 7,000 ft			
Non-Operational Altitude	0 to 12,192 m 0 to 40,000 ft			

* 2.5" only (all others support 2.5" or 3.5")

** For the latest supported drives go to www.imation.com/nexsan

FEATURES AND BENEFITS

ACTIVE DRAWER TECHNOLOGY™

- No system downtime - Allows for easy, hot-swappable drive management
- Drives remain active when drawer is open
- Increased reliability and reduced external wire management

COOL DRIVE TECHNOLOGY™

- Optimizes air flow and component cooling
- Increases product reliability by reducing component temperatures
- System redundancy ensures adequate cooling even if a fan fails
- Variable speed fans with temperature sensors

ANTI-VIBRATION DESIGN

- Reduces vibration to improve system performance and reliability
- Drives mounted counter-rotating
- Thick plates in chassis eliminate vibrations
- Anti-vibration fan mounts

AUTOMAID™

- Up to 87% energy savings and lowers your cooling needs
- Ideal for backup to disk or bulk storage scenarios
- Configurable on a per-disk set basis
- Easy to set up and maintain via GUI
- Can improve drive reliability by reducing power-on-hours

ADVANCED CONTROLLER*

- Dedicated hardware engine accelerates RAID parity generation
- Up to 2x the sequential write performance over the prior generation E-Series systems.
- wData protection maintained even through power outage via onboard flash-based emergency backup storage
- Power-controlled riser card enables data offload from DIMM to controller flash

* Available only in the E48VT and E60VT



ABOUT IMATION

Imation is a global data storage and information security company. Imation's Nexsan portfolio features solid-state optimized unified hybrid storage systems, secure automated archive solutions and high-density enterprise storage arrays. Nexsan solutions deliver high performance for mission-critical IT applications such as virtualization, cloud, databases, and collaboration; and energy efficient, high-density storage for backup and archiving. For more information, visit www.imation.com/nexsan.