

NEXSAN NST5000™ STORAGE SYSTEMS SPECIFICATION SHEET

ABOUT NEXSAN

Nexsan® is a leading provider of innovative data storage systems with over 10,000 customers worldwide. Nexsan's pioneering Hybrid Storage systems combine solid-state technologies, spinning disk storage and advanced software to deliver radical new levels of performance and capacity at lower cost. The company's advanced technologies enable organizations to optimize traditional, virtual and cloud computing environments for increased productivity and business agility. With more than 28,000 systems deployed since 1999, the company delivers its data storage systems through a worldwide network of solution providers, VARs and system integrators. Nexsan is based in Thousand Oaks, Calif. For more information, visit www.nexsan.com



SPEC SHEET

CATEGORY	FEATURE	NEXSAN NST5100	NEXSAN NST5300	NEXSAN NST5500	NEXSAN NST5100X	NEXSAN NST224X
Storage Capacities	Maximum number of drives in chassis	15	N/A	N/A	16	24
	Maximum SATA capacity	93TB	1440TB	5040TB	48TB	N/A
	Maximum SAS capacity	18.6TB	144TB	216TB	9.6TB	14.4TB
	Maximum number of drives w/ expansion chassis	31	360	360	N/A	N/A
	Minimum Number of drives	8	9	9	16	24
	NL-SAS 7200RPM drives (TB)	1 / 2 / 3	N/A	N/A	1 / 2 / 3	N/A
	SATA 7200RPM Drives (TB)	N/A	1 / 2 / 3 / 4	1 / 2 / 3 / 4	N/A	N/A
	SAS 15K RPM 3.5" drives (GB)	450 / 600	450 / 600	450 / 600	450 / 600	N/A
	SAS 15K RPM 2.5" drives (GB)	N/A	N/A	N/A	N/A	300
	SAS 10K RPM 2.5" drives (GB)	N/A	N/A	N/A	N/A	450 / 600
	Mix drive types in chassis	NO	YES	YES	NO	NO
Expansion chassis supported	NST5100X	E-Series NST224X	E-Series NST224X	N/A	N/A	
Storage Controller	Base / maximum controllers per system	2 / 2	2 / 2	2 / 2	N/A	N/A
	Base / maximum number of CPU cores per controller	4 / 4	4 / 8	12 / 12	N/A	N/A
	Base / maximum system memory per controller	12 / 12	24 / 48	48 / 96	N/A	N/A
	RAID Levels	5, 6, 10	5, 6, 10	5, 6, 10	5, 6, 10	5, 6, 10
FASTier®	FASTier Package Contents	(1) 100GB SLC SSD & (1) Optional 8GB NVRAM SSD or 160 / 320 / 640 / 1200 / 2400GB eMLC SSD	(2) 100GB SLC SSD & (1) 8GB NVRAM SSD	(3) 200GB SLC SSD & (1) 8GB NVRAM SSD	160 / 300 / 600GB eMLC SSD	N/A
	Number of drive slots required for a FASTier Package	160 / 300 / 600GB eMLC SSD	3	4	0 to 1	N/A
	Maximum number of FASTier Packages per system	1	5	4	N/A	N/A
	Maximum FASTier dedicated high speed flash-backed DRAM write cache in SSDs per system	8GB	40GB	32GB	N/A	N/A
	FASTier Expansion Package Contents	N/A	(2) 100GB SLC SSDs	(3) 200GB SLC SSDs	N/A	N/A
	Base / Maximum FASTier cache size	0 / 2.4TB	0 / 1.4TB	0 / 2.8TB	N/A	N/A



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I/O Ports	Base / maximum 1Gb Ethernet ports per controller	2 / 6	2 / 6	2 / 6	N/A	N/A
	Base / maximum 10Gb Ethernet ports per controller	0 / 2	0 / 2	0 / 2	N/A	N/A
	Dedicated/Available Ethernet management ports per controller	0 / 2	0 / 2	0 / 2	N/A	N/A
	Link aggregation (IEEE 802.3ad)	YES	YES	YES	N/A	N/A
	Base / max # of 24GB SAS x 4 Ports for drive expansion per controller	1	0 / 4	0 / 6	N/A	N/A
	Base / max # of 8Gb Fibre Channel ports for drive expansion per controller	N/A	0 / 4	0 / 6	N/A	N/A
	High Availability	Dual Redundant storage controllers with automatic failover	YES	YES	YES	N/A
No single point-of-failure architecture		YES	YES	YES	YES	YES
Rails & Cables	Mounting Rails and SAS / FC Cables Included	Optional	YES	YES	YES	YES
NAS Services Capacities*	Number of NAS heads in cluster base/maximum	2 / 2	2 / 2	2 / 2	N/A	N/A
	Maximum single file size (TB)	16	16	16	N/A	N/A
	Maximum number of CIFS shares per controller	512	512	512	N/A	N/A
	Maximum number of NFS shares per controller	512	512	512	N/A	N/A
	Maximum file name length (bytes)	255	255	255	N/A	N/A
	Maximum number of snapshots per share	2048	2048	2048	N/A	N/A
	Management software included at no additional cost	YES	YES	YES	YES	YES
iSCSI Block Services Capacities*	LUN Security via CHAP, iSNS, LUN masking	Y	Y	Y	N/A	N/A
	VMware, Xen, Hyper-V, and Windows compatible	Y	Y	Y	N/A	N/A
	Maximum LUN size	16TB	64TB	64TB	N/A	N/A
	Maximum number of LUNs per system	256	1024	1024	N/A	N/A
	Maximum number of snapshots per LUN	2048	2048	2048	N/A	N/A



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Power & Cooling	Standard number of power supplies	2	2	2	2	2
	Power supplies are hot-swappable	Y	Y	Y	Y	Y
	Wattage per Controller	400	420	480	N/A	N/A
	Voltage and Frequency	100-240V 50-60Hz	100-240V 50-60Hz	100-240V 50-60Hz	100-240V 50-60Hz	100-240V 50-60Hz
	NST5000 Main Chassis Heat Dissipation (BTU per hour)	2750	2900	3350	N/A	N/A
	Typical power consumption for 60 drives	N/A	1275	1325	N/A	N/A
	AutoMAID® power savings	N	Y	Y	N	N
	Size, Weight and Operating Conditions	Operating Temperature	10-35C (50-95F)	10-35C (50-95F)	10-35C (50-95F)	10-35C (50-95F)
Operating Humidity		20-95% Non Condensing	20-95% Non Condensing	20-95% Non Condensing	20-95% Non Condensing	20-95% Non Condensing
NST5000 Main Chassis Height (U of rack space)		5.2 in / 13.2 cm (3U)	5.2 in / 13.2 cm (3U)	5.2 in / 13.2 cm (3U)	5.2 in / 13.2 cm (3U)	3.5 in / 8.9 cm (2U)
NST5000 Main Chassis Width		17.2 in / 43.7 cm	17.2 in / 43.7 cm	17.2 in / 43.7 cm	17.2 in / 43.7 cm	17.6 in / 44.7 cm
NST5000 Main Chassis Depth		24.2 in / 61.5 cm	24.2 in / 61.5 cm	24.2 in / 61.5 cm	24.2 in / 61.5 cm	19.5 in / 49.53 cm
NST5000 Main Chassis Weight		84 lbs / 38.1 Kg	68 lbs / 30.1 Kg	70 lbs / 31.8 Kg	84 lbs / 38.1 Kg	60lbs / 27 kg

OVERVIEW OF THE NST5100 CONFIGURATIONS WHICH USE EMLC SSDS

Part Number	NST5100 Chassis (16 slots)		NST5100X Chassis (16 slots)		Total Raw Capacity
	Disk	SSDs	Disk	SSD	
NST5100H-08T	8 x 1TB	160GB (4 x 40GB)			8TB
NST5100H-08T	12 x 1TB	640GB (4 x 160GB)			12TB
NST5100H-08T	12 x 2TB	1200GB (4 x 300GB)			24TB
NST5100H-08T	12 x 1TB	320GB (4 x 80GB)	15 x 1TB	1 x 160GB	27TB
NST5100H-08T	12 x 2TB	640GB (4 x 160GB)	15 x 2TB	1 x 300GB	54TB
NST5100H-08T	12 x 3TB	1200GB (4 x 300GB)	15 x 3TB	1 x 600GB	81TB
NST5100H-08T	12 x 3TB	2400GB (4 x 600GB)	15 x 3TB	1 x 600GB	81TB