

UNITY™ UNIFIED STORAGE SYSTEMS SPECIFICATION SHEET



Category	Feature	UNITY2200 ENTRY LEVEL	UNITY4400 MID-RANGE	UNITY6900 HIGH-END
ENTERPRISE FEATURES	All-Flash Configuration	The all-flash configurations are optimized to get the most out of the flash SSDs while providing the performance to meet the most demanding applications. Performance up to 500K IOPS.		
	Supports Multiple Protocols	SAN Protocols (Fibre Channel, iSCSI), NAS Protocols (NFS, CIFS, SMB 1.0 to 3.0, FTP)		
	Authentication	Active Directory, LDAP, and Local		
	Access	Windows, Mac, and Linux		
	Data Services	Advanced data reduction, thin provisioning with dead space reclamation, replication, and snapshots.		
	Self-Encrypting Drives (SED) (optional)	N/A	AES-256 Drives for data at rest protection	
HIGH AVAILABILITY	Dual redundant storage controllers with automatic failover	YES		
	No single point-of-failure architecture	YES		
SYSTEM CONFIGURATION	Controllers	2		
	Controller Form Factor	3U	2U	
	CPU cores per system	16		24
	CPU Type	Intel® Xeon® Processor E5 v4 Family		
	System Memory (DRAM, per controller)	64GB	96GB	192GB
	Write Cache Capacity (raw, per controller)	400GB SSDs	8GB NVDIMM	16GB NVDIMM
	FASTier Read Cache Max Capacity	7.68TB	35TB	100TB
	FASTier Read Cache Max Devices	2	11	29

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STORAGE ARRAYS	FASTier Read Cache Device Capacities	400GB 800GB 1.92TB 3.84TB	800GB 1.92TB 3.84TB	
	Maximum Raw Capacity	336TB	2.23PB	5.66PB
	Maximum Number of Chassis (with Front Bay)	2	4	9
	RAID Levels	5 6 10		
STORAGE MEDIA	7.2K RPM SAS HDDs	2TB 4TB 6TB 8TB 10TB 12TB		
	Maximum number of 7.2K RPM SAS HDD	28	171	456
	Maximum 7.2K RPM SAS HDD storage capacity (raw)	336TB	2.05PB	5.47PB
	10K RPM SAS HDDs	600GB 900GB 1.2TB 1.8TB		
	Maximum Number of 10K RPM SAS HDD	28	88	198
	Maximum 10K RPM SAS HDD storage capacity (raw)	50TB	158.4TB	356.4TB
	SAS SSDs	800GB 1.92TB 3.84TB 7.68TB		
	Maximum Number of SAS SSDs	32	96	216
	Maximum SAS SSDs storage capacity (raw)	245TB	752TB	1.69PB
	Self-Encrypting Drives (See next section)	NO	YES	
SELF-ENCRYPTING DRIVES (SED) AND SUPPORTED CHASSIS	2.5" 10K SED Drives (GB)	N/A	600 900 1200 GB	
	3.5" 7.2K SED Drives (TB)	N/A	2 4 6 TB	
	SED E-Series Chassis Supported	N/A	E18P (2U) / E48P (4U) / E60 (4U)	
	Number of Chassis Supported	N/A	3 (1 head + 2 expansion)	6 (2 heads + 4 expansion)
	Maximum SED in E-Series Capacity (raw)	N/A	1.8PB	3.6PB
HOST CONNECTIVITY	8Gb/s Fibre Channel Max Number of Ports/System	8 using dual port cards		
	16Gb/s Fibre Channel max ports	8 with dual port 16 with quad port		
	32Gb/s Fibre Channel max ports	8 with dual port		
	10GbE Max Number of Ports/System	12		
	1GbE Max Number of Ports/System	16		
	10GbE I/O Embedded Standard Configuration	YES		
	PCIe Slots for Additional Host Connectivity	YES		
	1GbE I/O Ports Optional	YES		
	10GbE I/O Ports Default and Optional	YES		
	8Gb/s FC I/O Ports Optional	YES		
	16Gb/s FC I/O Ports Optional	YES		
	32Gb/s FC I/O Ports Optional	YES		

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SYSTEM STORAGE SERVICES	Client Support	Linux, OS X, Windows, ESXi, Hyper-V, XenServer		
	Maximum Single File Size	16TB		
	Max NFS File Systems	512		
	Max CIFS File Systems	512		
	Max Snapshots per File System	2048		
	Max LUNs per Target	255		
	Max LUN Size	64TB		
	System Max LUNs	255 - Fibre Channel 1024 - iSCSI		
	Max Snapshots per LUN	2048		
POWER, COOLING & ENVIRONMENTAL	Number of hot-swappable power supplies - head units	2		
	Voltage, Frequency	100-240V 50-60Hz		
	Operating Temperature	10-35C, 50-95F		
	Operating Humidity	20-95% (non-condensing)		
	Wattage per Controller	1200W		
	Maximum Power/Controller Node	1200W		
	Heat Dissipation	Line 113 Battery 714		
SIZE & WEIGHT	Controller Form Factor	3U	2U	
	Dimension (WxHxD)	17.2 x 5.25 x 26.75 in 437 x 133 x 678 mm	17.2 x 3.5 x 26.75 in 437 x 89 x 679 mm	
	Controller Unit Weight	85 lbs. (38.6 kg.) 90 lbs. (40.8 kg.)	85 lbs. (38.6 kg.) 90 lbs. (40.8 kg.)	
RAILS & CABLES	Mounting Rails and SAS Cables included	YES		
POWER CABLE	Power Cable	5-15 & C13/C14		
SAS STORAGE CHASSIS FOR EXPANSION	12Gb/s SAS Standard Configuration (per controller) # of SAS Ports	1	2	4
	12Gb/s SAS Standard Configuration PCIe Card Type (per controller)	Onboard	Dual-Port	Quad-Port
	Storage Chassis Supported	Front Bay UNITY2200X	Front Bay US316 US424 US224 US460	

Category	Feature	US224	US316 & 2200X	US424	US460
UNITY STORAGE EXPANSION CHASSIS	Chassis Form Factor	2U	3U	4U	4U
	Dimension (WxHxD)	17.2 x 3.5 x 26.75 in 437 x 88 x 679 mm	17.2 x 5.2 x 26.75 in 437 x 132 x 679 mm	17.2 x 7 x 27 in 437 x 178 x 686 mm	16.69 x 6.88 x 34.60 (43.7 w/ CMA) in 424 x 174 x 871.2 (1110 w/ CMA)
	Storage Unit Weight	85 lbs full 56 lbs empty	75 lbs full 54 lbs no drives	88 lbs full 64 lbs no drives	207.6 lbs full 99.6 lbs no drives
	Number of hot-swappable power supplies	2			
	Voltage, Frequency	100-240V 50-60Hz			200-240V 60Hz
	Operating Temperature	10-35C, 50-95°F			
	Operating Humidity	20-95% (non-condensing)			
	Power Supply Wattage	1,200W			1,650W
	Power Cable	5-15 & C13/C14 US460 = C13/C14			

All storage capacities listed in this document are in Terabytes (TB) where $1TB = 10^{12} = 1,000,000,000,000$ bytes.

All memory capacities listed in this document are in binary GiB where $1GiB = 2^{30} = 1,073,741,824$ bytes.

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Nexsan® is a global enterprise storage leader since 1999 delivering the most reliable, cost-effective and highly efficient storage solutions. Nexsan's solution portfolio empowers enterprises to securely store, protect and manage valuable business data with a broad product line of unified storage, block storage, and secure archiving. www.nexsan.com.