

# UNITY™ UNIFIED STORAGE SYSTEMS



Category	Feature	UNITY2200 ENTRY LEVEL	UNITY4400 MID-RANGE	UNITY6900 HIGH-END
<b>ENTERPRISE FEATURES</b>	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)		
	User Interface	Unity includes both a built-in HTML5-based UI and a comprehensive Command Line Interface (CLI). The Unity UI allows an administrator to easily manage and monitor a Unity deployment, regardless of size, from anywhere with just a web browser.		
	PCI Compliance	Unity supports TLS 1.2 for PCI compliance.		
	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	
	Home Directories	Easy wizard setup to automate creation of file systems dedicated to user home folders.		
<b>HIGH AVAILABILITY</b>	Dual redundant storage controllers with automatic failover	YES		
	No single point-of-failure architecture	YES		
<b>SYSTEM CONFIGURATION</b>	Controllers	2		
	Controller Form Factor	3U	2U	
	CPU cores per system	32		40
	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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<b>STORAGE ARRAYS</b>	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		
<b>STORAGE MEDIA</b>	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		
<b>SELF-ENCRYPTING DRIVES (SED) AND SUPPORTED CHASSIS</b>	2.5" 10K Drives (TB)	N/A	1.2   2.4 TB	
	3.5" 7.2K Drives (TB)	N/A	4   6   10 TB	
	SED E-Series Chassis Supported	N/A	E18P (2U) / E48P (4U) / E60P (4U)	
	Number of Chassis Supported	N/A	3 (1 head + 2 expansion)	6 (2 heads + 4 expansion)
	Maximum SED in E-Series Capacity	N/A	1.8PB	3.6PB
<b>HOST CONNECTIVITY</b>	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		
	40GbE Max Number of Ports/System	N/A	4	
	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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<b>SYSTEM STORAGE SERVICES</b>	Client Support	Linux, OS X, Windows, ESXi, Hyper-V, XenServer		
	Max NFS File Systems	512		
	Max CIFS File Systems	512		
	Max Snapshots per File System	2048		
	Max LUNs per Target	255		
	Max LUN Size	256TB		
	System Max LUNs	255 - Fibre Channel   1024 - iSCSI		
	Max Snapshots per LUN	2048		
<b>POWER, COOLING &amp; ENVIRONMENTAL</b>	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		
<b>SIZE &amp; WEIGHT</b>	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.)	
<b>RAILS &amp; CABLES</b>	Mounting Rails and SAS Cables included	YES		
<b>POWER CABLE</b>	Power Cable	5-15 & C13/C14		
<b>SAS STORAGE CHASSIS FOR EXPANSION</b>	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
<b>UNITY STORAGE EXPANSION CHASSIS</b>	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 1 TB = 10<sup>12</sup> = 1,000,000,000,000 bytes.  
All memory capacities listed in this document are in binary GiB where 1 GiB = 2<sup>30</sup> = 1,073,741,824 bytes.

## ABOUT NEXSAN

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 all-flash NVMe, unified storage, block storage, and secure archiving. Nexsan is a proud member of the StorCentric Family. [www.nexsan.com](http://www.nexsan.com)