

UNITY™ 3100, 3300 & 7900

UNIFIED STORAGE



UNITY



Category	Feature	UNITY3100	UNITY3300	UNITY7900
ENTERPRISE FEATURES	Data Migration and Cloud Connector	This optional functionality includes a cloud connector to 18 public clouds, including Amazon S3 and Google Cloud Storage. The migration utility is utilized for ingest to quickly migrate off of your legacy system into the new Unity platform.		
	Security, Compliance and Ransomware Protection	By adding the optional Assureon® active data vault, unstructured data can be tiered into a unique immutable format protecting organizations for regulatory compliance and from malware attacks and data loss.		
	Unbreakable Backup	When utilizing Unity plus the optional Assureon for backups, the immutable backup solution protects from ransomware attacks and can be implemented in various configurations including tiered, replicated and high availability.		
	Flexible Configurations	Unity is optimized to deliver the performance you need whether it's a hybrid configuration or an all-flash, making it easy and affordable to meet the application needs.		
	Supports Multiple Protocols	SAN (Fibre Channel*, iSCSI), NAS (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		
	Host Platforms	All major platforms including Windows, Linux, Mac, VMware ESX, Hyper-V, Xen		
	Data Services	FASTier™ caching, in-line compression, thin provisioning with dead space reclamation, policy-driven snapshots, replication and data integrity validation.		
	Performance	500,000+ IOPs in an All-Flash Configuration		
	3rd Party Software Supported	Windows VSS, VMware VAAI, Commvault, Veeam Ready Repository & More		
High Availability	No single point-of-failure architecture with dual redundant storage controllers, redundant power supplies and RAID.			
SYSTEM CONFIGURATION	Controllers	2		
	Form Factor	3U		2U
	CPU Type	Intel® Xeon® Processor E5 v4 Family		
	System Memory (RAM)	256GB		448GB
	FASTier SSD Write Cache	800GB	1.6TB	16GB NVDIMM per controller
	FASTier Read Cache	800GB	1.6TB	
STORAGE ARRAYS	Maximum Number of Chassis (with Front Bay)	1	3	9
	Maximum System Raw Capacity Not Compressed with HDD Rack U	192TB 3U	1.68PB 11U	6.72PB 34U
	Maximum System Raw Capacity Not Compressed with SSD Rack U	76.8TB 3U	983TB 7U	3.31PB 18U
	RAID Levels	5 6 10		
STORAGE MEDIA	7.2K RPM SAS HDDs (TB)	6 10 16	4 6 8 10 12 14 16**	
	2.5" SAS 1DWPD SSDs (TB)	1.92 3.84 7.68	800GB 1.92 3.84 7.68 15.36	
	Maximum Drives with Expansion HDDs SSDs	12 10	120 64	480 216

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SELF-ENCRYPTING DRIVES (SED) AND QLC SUPPORTED CHASSIS	Number of Chassis Supported	0	2: 1 E-Series Head Unit + 1 Expansion	6: 2 E-Series Head Unit + 4 Expansions
	3.5" 7.2K Drives (TB)	N/A	4 6 10 12 14 16	
	SED E-Series Chassis Supported	N/A	E18P (2U) E48P (4U) E60P (4U) + Expansions	
	Maximum Raw Capacity with SED Rack U	N/A	1.92PB 11U	5.76PB 26U
	2.5" QLC Flash Drives (TB)	N/A	1.92 3.84 7.68	
	QLC E-Series Chassis Supported	N/A	E18F (2U) E32F (2U) + Expansions	
	Maximum Raw Capacity with QLC Rack U	N/A	700TB 9U	2.33PB 22U
HOST CONNECTIVITY	8Gb/s Fibre Channel Max Number of Ports/System	N/A	8 using dual port cards	
	16Gb/s Fibre Channel Max Ports	N/A	8 with dual port 16 with quad port	
	32Gb/s Fibre Channel Max Ports	N/A	8 with dual port	
	40GbE Max Number of Ports/System	N/A	4	
	10GbE Max Number of Ports/System	4	12	
	1GbE Max Number of Ports/System	4	16	
	10GbE Embedded Standard Configuration		YES	
	1GbE 10GbE 40GbE Ports Optional	N/A	YES	
	8Gb/s 16Gb/s 32Gb/s FC I/O Ports Optional	N/A	YES	
SYSTEM STORAGE SERVICES	Max NFS File Systems	512		
	Max CIFS File Systems	512		
	Max Snapshots per File System/LUN	2048		
	Max LUNs per Target	255		
	Max LUN Size	256TB		
	System Max LUNs	255 - Fibre Channel* 1024 - iSCSI		
	Max Snapshots per LUN	2048		
	Replication	Synchronous and asynchronous per storage pool, LUN and file system		
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		
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.)

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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	N/A	2	4
	12Gb/s SAS Standard Configuration PCIe Card Type (per controller)	N/A	Dual Port	Quad Port
	Storage Chassis Supported	N/A	Front Bay US224*** US316 U2G460 E-Series for SED or QLC	Front Bay US224*** U2G460 E-Series for SED or QLC

Category	Feature	US224	US316	U2G460
UNITY STORAGE EXPANSION CHASSIS	Chassis Form Factor	2U	3U	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	17.61 x 6.89 x 28.03 in 447 in x 175 x 712 mm
	Storage Unit Weight	85 lbs full 56 lbs empty	75 lbs full 54 lbs no drives	175 lbs full 60 lbs empty
	Number of hot-swappable power supplies	2		
	Voltage, Frequency	100-240V 50-60Hz		200-240V 50-60Hz
	Operating Temperature	10-35°C, 50-95°F		5-40°C, 41-104°F
	Operating Humidity	20-95% (non-condensing)		5-85%
	Power Supply Wattage	1,200W		1,650W
	Power Cable	5-15 & C13/C14		C13/C14

*U3100 does not support Fibre Channel.

**16TB Drives not supported on U2G460 System Expansion.

***For an All-Flash Configuration only the US224 is supported for expansion.



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