NEXSAN
A StorCentric Company

UNITY™ 3100, 3300 & 7900
TRUE UNIFIED STORAGE

UNITY

Category	Feature	UNITY3100	UNITY3300	UNITY7900
ENTERPRISE FEATURES	Data Migration and Cloud Connector	This optional functionality includes a cloud connector to numerous public clouds including Amazon S3, Google Cloud And Microsoft Azure. The migration utility is utilized to seamlessly migrate data to Unity.		
	Security, Compliance and Ransomware Protection	Unity includes support for immutable volume and file system snapshots, S3 object locking and integrates with Assureon active data vault that allows enterprises to address a wide variety of data protection use cases.		
	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), Object (S3)		
	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	Advanced data reduction, thin provisioning with dead space reclamation, replication, and snapshots		
	Performance	Up to 500,000 IOPs (All-Flash)		
	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	1.92TB SSD	1.92TB SSD	16GB NVDIMM
	FASTier Read Cache	1.92TB SSD	1.92TB SSD	
STORAGE ARRAYS	Maximum Number of Chassis (with Front Bay)	1	3	9
	Maximum System Raw Capacity Not Compressed with HDD | Rack U	192TB | 3U	2.16PB | 11U	8.64PB | 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 |18	
	2.5" SAS 1DWPD SSDs (TB)	1.92 | 3.84 | 7.68	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 | 16 with dual port	
	32Gb/s Fibre Channel Max Ports	N/A	8 with dual port	
	40GbE Max Number of Ports/System	N/A	4	
	25GbE 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 | 25GbE | 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	10-35ºC, 50-95ºF		5-40ºC, 41-104ºF
	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.
**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