NetApp

Datasheet

NetApp E2600 Storage System

Affordable high-performance storage

KEY BENEFITS

Balanced Performance
Equally adept at throughput for sequential I/O applications and IOPs to transactional databases, the NetApp® E2600 is well suited for wide-ranging workloads.

Modular Design
Allows custom configurations tailored for any environment to meet performance and capacity requirements.

Interface Flexibility
SAS interface is tailored to high-performance direct-attach solutions, while iSCSI and FC interface options enable the E2600 to seamlessly integrate into any SAN.

Challenges
Organizations of all sizes are struggling to deliver consistent performance while meeting escalating capacity requirements and increasing space restrictions. For entry-level and midrange environments especially, these challenges must be met with minimal cost and complexity.

Solution
The E2600 storage system is a high-performance solution designed with robust flexibility that makes it a great fit for wide-ranging requirements. Its balanced performance is equally adept at supporting high-bandwidth and transaction-intensive workloads. The E2600's multiple enclosure options enable custom configurations that can be tailored for any environment. And the E2600's fully redundant I/O paths, advanced protection features, and extensive diagnostic capabilities deliver high levels of availability, integrity, and security.

Balanced Performance
The E2600 storage system continues a heritage of balanced performance that can support any workload. Data-intensive bandwidth applications benefit from the E2600's ability to sustain high read and write throughput, while database-driven transactional applications benefit from its responsiveness and linear scalability.

Modular Flexibility
Understanding that each site is different, the E2600 offers multiple drive technologies and enclosure options to meet requirements. Its 24-drive enclosure maximizes performance per U while minimizing power consumption. For capacity-hungry environments, the 60-drive enclosure maximizes rack density with support for up to 120TB in just 4U. Each enclosure supports intermixing SSD, high-performance SAS, and NL-SAS drives, enabling the E2600 to cost effectively match data to its optimal drive type.

Interface Options
Today's infrastructures offer a wide variety of connectivity options, and the E2600's interface flexibility fits right in. Its SAS interfaces are tailored to high-performance direct-attach solutions, and iSCSI and FC interface options enable the E2600 to seamlessly integrate into any SAN.

Highly Reliable
With over 20 years of storage development experience, the E2600 is based on a field-proven design architected to provide high reliability and availability. Its redundant components, automated path failover, and online administration keep organizations productive 24/7/365. And the E2600's advanced protection features and extensive diagnostic capabilities deliver high levels of data integrity.

E2600 Technical Specifications

All data in this table applies to dual-controller configurations.

	2600-60	2600-24	2600-12
Maximum Raw Capacity	360TB	115TB	384TB
Maximum Disk Drives	180	192	192
Controller Form Factor	Dual (2) controllers and 60 drives in 4U chassis	Dual (2) controllers and 24 drives in 2U chassis	Dual (2) controllers and 12 drives in 2U chassis
Memory	2GB or 4GB	2GB or 4GB	2GB or 4GB
Onboard I/O	(4) 6Gb SAS	(4) 6Gb SAS	(4) 6Gb SAS
Optional I/O	(4) 6Gb SAS (8) 8Gb FC (8) 1Gb iSCSI (4) 10Gb iSCSI	(4) 6Gb SAS (8) 8Gb FC (8) 1Gb iSCSI (4) 10Gb iSCSI	(4) 6Gb SAS (8) 8Gb FC (8) 1Gb iSCSI (4) 10Gb iSCSI
Disk Shelves Supported	DE6600 (4U, 60 drives)	DE5600 (2U, 24 2.5" drives) DE1600 (2U, 12 3.5" drives)	DE1600 (2U, 12 3.5" drives) DE5600 (2U, 24 2.5" drives)
Drive Types Supported	3.5" NL-SAS 500GB/1TB/2TB, 2.5" SAS 10K 450GB/600GB	DE5600: 2.5" 10K SAS 146GB/300GB/450GB/600GB DE1600: 3.5" SSD 150GB/300GB, 15K SAS 300GB/450GB/600GB, NL-SAS 1TB/2TB	
OS Version	SANtricity 10.77		
High-Availability Features	Dual-active controller with automated I/O path failover Supports RAID levels 0, 1, 3, 5, 6. and 10 Redundant, hot-swappable storage controllers, disk drives, power supplies, and cooling fans Automatic drive failover and detection and rebuild using global hot spare drives Mirrored data cache with battery backup and destage to flash SANtricity Proactive Drive Health monitoring identifies problem drives before they create issues		
Operating Systems Supported	Windows Server® 2003, Windows Server 2008, Linux®, VMware® ESX, Solaris, AIX, HP-UX		
Software Features	**Standard** Dynamic Volume Expansion Dynamic Capacity Expansion Dynamic RAID Level Migration Dynamic Segment Size Migration Persistent Monitor Proactive Drive Heath Monitoring Nondisruptive firmware upgrades Media scan with auto parity check and correction	**Optional** Extended Value software: Storage partitioning SafeStore Encryption Services SafeStore Data Assurance Snapshot Volume Copy Remote volume mirroring	

"Full-time storage administrators appreciate the extensive configuration flexibility that allows optimal performance tuning and complete control over data placement, and part-time system administrators love the intuitive interface and wizards designed to simplify their tasks."

DIMENSIONS AND WEIGHT	CE2600-60 Controller Chassis DE6600 Drive Shelf	CE2600-24 Controller Chassis DE5600 Drive Shelf	CE2600-12 Controller Chassis DE1600 Drive Shelf
Height	7.0" (17.78 cm)	3.47" (8.81 cm)	3.4" (8.64 cm)
Width	19" (48.26 cm)	19" (48.26 cm)	19" (48.26 cm)
Depth	32.5" (82.55 cm)	19.6" (49.78 cm)	21.75" (55.25 cm)
Weight	232 lb (105.2 kg)	57.32 lb (26 kg)	59.52 lb (27 kg)

Max Power and Cooling	CE2600-60 Controller Chassis	CE2600-24 Controller Chassis	CE2600-12 Controller Chassis
KVA	1.268	0.331	0.400
Watts	1222	330	399
BTU	4180	1127	1366

Max Power and Cooling	DE6600 Drive Shelf	DE5600 Drive Shelf	DE1600 Drive Shelf
KVA	1.268	0.241	0.276
Watts	1222	240	276
BTU	4180	821	945

Intuitive Management

NetApp SANtricity® storage management software combines robustness and ease of use. Full-time storage administrators appreciate the extensive configuration flexibility that allows optimal performance tuning and complete control over data placement, and part-time system administrators love the intuitive interface and wizards designed to simplify their tasks. And with its dynamic capabilities, SANtricity software supports on-the-fly expansion, reconfiguration, and maintenance without interrupting storage system I/O.

Safestore Protection

Drives are sometimes out of a user's control, either through theft, off-site service or repair, or disposal of old drives. NetApp SafeStore™ encryption services combine local key management and drive-level encryption for comprehensive data security so that data is protected throughout the drive's life cycle without sacrificing storage system performance or ease of use. SafeStore Data Assurance offers customers ultra-sensitivity to data validation and an extra level of protection through sophisticated error detection and correction.

About NetApp

NetApp creates innovative storage and data management solutions that deliver outstanding cost efficiency and accelerate business breakthroughs. Discover our passion for helping companies around the world go further, faster at *www.netapp.com*.

Go further, faster®

NetApp®

www.netapp.com