

Sanapptx Storage Center Technical Specifications



The Sanapptx Storage Center SAN is built on a flexible, persistent platform that supports the continual adoption of new technologies as you grow. You can easily intermix drive technologies and build a unified storage solution without worrying about a forklift upgrade. Integrated software applications allow you to move beyond simply storing data to actively, intelligently managing data to cut the time, cost and risk of enterprise storage.

Modular, scalable hardware




- Works with FC, iSCSI and FCoE protocols
- Standards-based, technology independent
- Highly available architecture
- Add capacity, connectivity and performance on demand
- Mix and match drives and enclosures
- Add NAS to meet file-level requirements

Intelligent, automated software

- Suite of powerful, innovative software applications
- Provision volumes from a single, shared pool
- Optimize utilization, speed local and remote replication
- Automate data movement between tiers and RAID levels

Centralized, streamlined interface

- Centralized, point-and-click wizard-based setup and management
- Comprehensive PhoneHome capabilities
- Automatic notification when user-defined capacity thresholds are reached
- Advanced storage resource management capabilities

Interface	Hardware
 <p>Management interface Centralized interface streamlines administration and speeds common storage management tasks.</p>	 <p>Host connectivity</p> <ul style="list-style-type: none"> • FC • iSCSI • FCoE <p>Drive & enclosure connectivity</p> <ul style="list-style-type: none"> • FC • SAS <p>NAS</p> <ul style="list-style-type: none"> • Sanapptx zNAS <p>Controllers</p> <ul style="list-style-type: none"> • Clustered controllers provide automatic failover • Seamlessly connects to any open-systems server without the need for server agents • Mix and match Fibre Channel, FCoE and iSCSI server connectivity
<p>Software</p>  <p>Applications A powerful suite of enterprise capabilities to manage your data.</p> <ul style="list-style-type: none"> • Automated tiered storage • Thin provisioning • Storage virtualization • Continuous snapshots • Remote replication • Reporting and alerts (APP) 	

About Sanapptx

Part of the Fluid Data architecture, Sanapptx provides storage solutions that optimize efficiency, agility and resiliency for enterprises and the cloud. With built-in intelligence and automation, Dell Compellent helps organizations cut overall storage costs, secure data against downtime and disaster, and scale on a single platform in line with business needs. For more information, visit Dell.com/Compellent.

Hardware and software warranty

- 5-year limited hardware warranty*
- 90-day software warranty
- 24x7 call center support
- Advance hardware parts exchange

Sanapptx Configurations

	Entry level	Mid-range	Mid-range expansion	High performance	High performance expansion	High capacity/archive
Servers	2 x 2U Dell PowerEdge R720 rack servers	2 x 2U Dell PowerEdge R720 rack servers	2 x 2U Dell PowerEdge R720 rack servers	2 x 2U Dell PowerEdge R720 rack servers	2 x 2U Dell PowerEdge R720 rack servers	2 x 2U Dell PowerEdge R720 rack servers
CPUs	2 x 4-core 2.4GHz Intel® Xeon® E5-2609	2 x 4-core 2.4GHz Intel® Xeon® E5-2609	2 x 4-core 2.4GHz Intel® Xeon® E5-2609	2 x 4-core 3.3GHz Intel® Xeon® E5-2643	2 x 4-core 3.3GHz Intel® Xeon® E5-2643	2 x 4-core 3.3GHz Intel® Xeon® E5-2643
DRAM	96GB (12 x 8GB DIMMs)	96GB (12 x 8GB DIMMs)	96GB (12 x 8GB DIMMs)	256GB (16 x 16GB DIMMs)	256GB (16 x 16GB DIMMs)	256GB (16 x 16GB DIMMs)
Boot Drives	2 x 1TB 7.2k-RPM SAS 2.5" HDD	2 x 1TB 7.2k-RPM SAS 2.5" HDD	2 x 1TB 7.2k-RPM SAS 2.5" HDD	2 x 1TB 7.2k-RPM SAS 2.5" HDD	2 x 1TB 7.2k-RPM SAS 2.5" HDD	2 x 1TB 7.2k-RPM SAS 2.5" HDD
PCIe Cards	1 x H710 internal RAID (boot drive) 1 x Intel X540 Dual Port 10Gb BT + I350 Dual Port 1Gb BT 2 x LSI 9207-8e PCIe3 6Gb SAS HBA	1 x H710 internal RAID (boot drive) 1 x Intel X540 Dual Port 10Gb BT + I350 Dual Port 1Gb BT 4 x LSI 9207-8e PCIe3 6Gb SAS HBA	1 x H710 internal RAID (boot drive) 1 x Intel X540 Dual Port 10Gb BT + I350 Dual Port 1Gb BT 1 x Intel X520 Dual Port 10GgE DA/SFP+ NIC** 4 x LSI 9207-8e PCIe3 6Gb SAS HBA	1 x H710 internal RAID (boot drive) 1 x Intel X540 Dual Port 10Gb BT + I350 Dual Port 1Gb BT 1 x Intel X520 Dual Port 10GgE DA/SFP+ NIC** 4 x LSI 9207-8e PCIe3 6Gb SAS HBA	1 x H710 internal RAID (boot drive) 1 x Intel X540 Dual Port 10Gb BT + I350 Dual Port 1Gb BT 1 x Intel X520 Dual Port 10GgE DA/SFP+ NIC** 4 x LSI 9207-8e PCIe3 6Gb SAS HBA	1 x H710 internal RAID (boot drive) 1 x Intel X540 Dual Port 10Gb BT + I350 Dual Port 1Gb BT 1 x Intel X520 Dual Port 10GgE DA/SFP+ NIC** 4 x LSI 9207-8e PCIe3 6Gb SAS HBA
JBODs	2 x Dell MD1220	4 x Dell MD1200	8 x Dell MD1200	2 x Dell MD3060e	4 x Dell MD3060e	4 x Dell MD3060e
HDDs	44 x (1TB) 7.2k RPM NL-SAS 2.5"	44 x 2TB 7.2k RPM NL-SAS 6Gb 3.5"	88 x 2TB 7.2k RPM NL-SAS 6Gb 3.5"	112 x 2TB 7.2k RPM NL-SAS 6Gb 3.5"	228 x 2TB 7.2k RPM NL-SAS 6Gb 3.5"	240 x 4TB 7.2k RPM NL-SAS 6Gb 3.5"
Read Cache	0-2 x 400GB SAS MLC	0-2 x 400GB SAS MLC	0-4 x 400GB SAS MLC	0-4 x 400GB SAS MLC	0-4 x 400GB SAS MLC	None
Write Cache	2 x 200GB SLC	2 x STEC ZeusRAM	4 x STEC ZeusRAM	4 x STEC ZeusRAM	8 x STEC ZeusRAM	None
Software	SanapptxStor "two controller nodes" SKU 2 x SanapptxStor "MD1220-1TB-gold" SKUs SanapptxStor Software licensed by capacity under management	SanapptxStor "two controller nodes" SKU 4 x SanapptxStor "MD1200-2TB-gold" SKUs SanapptxStor licensed by capacity under management	SanapptxStor "two controller nodes" SKU 8 x SanapptxStor "MD1200-2TB-gold" SKUs SanapptxStor licensed by capacity under management	SanapptxStor "two controller nodes" SKU 2 x SanapptxStor "MD3060e-2TB-gold" SKUs SanapptxStor licensed by capacity under management	SanapptxStor "two controller nodes" SKU 4 x SanapptxStor "MD3060e-2TB-gold" SKUs SanapptxStor licensed by capacity under management	SanapptxStor "two controller nodes" SKU 4 x SanapptxStor "MD3060e-4TB-gold" SKUs SanapptxStor licensed by capacity under management

Manage data differently at Sanapptx.com

For copy of Ltd Hardware Warranty, write Dell USA LP, Attn: Warranties, One Dell Way, Round Rock, TX 78682 or see www.dell.com/warranty.

