

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

## 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](http://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
<b>Servers</b>	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
<b>CPUs</b>	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
<b>DRAM</b>	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)
<b>Boot Drives</b>	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
<b>PCIe Cards</b>	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
<b>JBODs</b>	2 x Dell MD1220	4 x Dell MD1200	8 x Dell MD1200	2 x Dell MD3060e	4 x Dell MD3060e	4 x Dell MD3060e
<b>HDDs</b>	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"
<b>Read Cache</b>	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
<b>Write Cache</b>	2 x 200GB SLC	2 x STEC ZeusRAM	4 x STEC ZeusRAM	4 x STEC ZeusRAM	8 x STEC ZeusRAM	None
<b>Software</b>	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](http://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](http://www.dell.com/warranty).

