



DELL EMC STORAGE COMPARISON CHART


BLOCK STORAGE



		Dell EMC Arrays					
		AX4-5i	CX4-120	CX4-240	CX4-480	CX4-960	
Great For	Moderate transaction processing High speed large block data transfers Backup-to-disk Audio/video streaming Replication	Moderate-to-heavy transaction processing High speed large block data transfers Backup-to-disk Audio/video streaming Replication Departmental applications	Heavy transaction processing High speed large block data transfers Backup-to-disk Audio/video streaming Replication Departmental applications	Very heavy transaction processing Very high speed large block data transfers Backup-to-disk Audio/video streaming Replication Highly Compute-intensive applications Data warehousing HPCC ERP	Very heavy transaction processing Maximum speed large block data transfers Backup-to-disk Audio/video streaming Replication Highly compute-intensive applications - Seismic data analysis - Computational chemistry - Genomic sequencing		
	Storage Capacity	Up to 24 TB with 400 GB SAS drives Up to 45 TB with 750 GB SATA drives Up to 60 TB with 1 TB SATA Drives	Up to 54TB raw storage capacity with Fibre Channel drives; Up to 120TB with high-capacity SATA drives	Up to 108TB raw storage capacity with Fibre Channel drives; Up to 231TB with high-capacity SATA drives	Up to 216TB raw storage capacity with Fibre Channel drives; Up to 471TB with high-capacity SATA drives	Up to 432TB raw storage capacity with Fibre Channel drives; Up to 951TB with high-capacity SATA drives	
	Scalability	Up to 60 drives	Up to 120 drives	Up to 240 drives	Up to 480 drives	Up to 960 drives	
	Number of Storage CPU's	2 Per Array					
	System Cache	2 GB on dual controller models 1 GB on single controller models	6GB	8GB	16GB	36GB	
	RAID Levels	RAID 1/0, 3, 5	RAID 0, 1, 1/0, 3, 5, and 6				
	Supported Servers	All dual- and quad-socket Dell™ PowerEdge™ servers; Variety of Compaq®, HP®, IBM®, and SUN® servers as validated by EMC					
	OS Support	Microsoft® Windows® 2000 Server, Windows Server™ 2003, Windows Server 2008, Linux®, Solaris™, VMware®, AIX, HP-UX					
	Number of Supported Hosts	Up to 4 hosts directly connected; up to 2 HA hosts directly connected Up to 64 HA hosts connected in a SAN	Up to 6 FC and 2 iSCSI or 2 FC and 4 iSCSI direct attached HA connected hosts; Up to 128 SAN attached HA connected hosts	Up to 6 FC and 4 iSCSI or 2 FC and 6 iSCSI directly connected HA hosts; Up to 256 SAN attached HA connected hosts	Up to 8 Fibre Channel or 6 iSCSI directly attached HA hosts; Up to 256 SAN attached HA connected hosts	Up to 12 Fibre Channel or 8 iSCSI; Up to 512 SAN attached HA connected hosts	
	Front End Connectivity	AX4-5F: two 4 GB/s Fibre Channel ports / controller (up to 2 controllers per array) AX4-5I: two 1 GB/s iSCSI ports / controller (up to 2 controllers per array)	Base Ports: Eight 8Gbit or 4Gbit Fibre Channel and Four 1Gbit iSCSI Additional Optional Ports (UltraFlex I/O Modules): Eight 8Gbit or 4Gbit Fibre Channel Eight 8Gbit or 4Gbit Fibre Channel and four 1Gbit iSCSI Four or eight 1Gbit iSCSI				
	Drive Interface	Dual ported SAS with one 4X SAS expansion port per controller	4Gbit Fibre Channel interface Failover from each storage processor to both Fibre Channel loops is possible				
	Drive Available	146 GB 15K RPM SAS drive 400 GB 10K RPM SAS drive 750 GB 7200 RPM SATA 3 GB/s drive 300 GB 15K RPM SAS drive 1 TB 7200 RPM SATA 3 GB/s drive	Fibre drives: 146GB 15k RPM; 300GB 15k RPM; 450GB 15k RPM 400GB 10k RPM SATA II drives: 1TB 7.2k RPM; 1TB 5.4k RPM Enterprise flash drives: 73GB; 400GB				
	Available Software	Navisphere® Express Management Utility EMC® PowerPath® Optional Software Navisphere® Manager Navisphere® Analyzer SnapView™ MirrorView(Fibre Channel only) SAN Copy (Fibre Channel only)	EMC SnapView™, EMC MirrorView™, EMC Navisphere® Manager, EMC Navisphere Analyzer, EMC Navisphere Quality of Service Manager, EMC PowerPath®, EMC SAN Copy™, Virtual Provisioning, Replication Manager Family, VMware®				
	Competitive Landscape		HP EVA4400	HP EVA6100	HP EVA8100	NetApp FAS6040a	
		IBM DS4700	IBM DS4800-82	IBM DS4800-88			
		NetApp 2050a	NetApp 3040a	NetApp 3070a			

Older Models

FILE STORAGE

NX4 NAS	
	
Great For	Advanced file management for Windows and Linux/UNIX environments and the flexibility to help support stranded application servers via iSCSI or FC
Operating System	DART
File Access Protocols	CIFS,NFS,FTP
Block Access Protocols	iSCSI, Fiber Channel
Form Factor	5U Rackmounted
Memory	4GB
Raid Type	Hardware
HW Raid Levels	0/1, 5 and 6
Max Storage Expansion	Drives and Raw Capacity: 60TB with 60 1TB SATA drives in 4 additional Disk Array Enclosures
Drive Supported	SAS,SATA
Hardware Redundancy	Hot-Swappable Drives: Yes Power Supplies/Fans: Yes I/O Subsystem: Yes x- Blades: Yes
Systems Management	Celerra Manager
Remote Management	Celerra Manager
Bundled Software	Celerra Manager-Basic, Celerra SnapSure™, Virtual Provisioning, Celerra Data Deduplication, NDMP support
Optinonal Software	Optional File Storage Software: <i>Celerra Anti-virus, Celerra Replicator, Celerra Manager Advanced Edition, Celerra File Level Retention.</i> Optional Application Storage Software: <i>Navisphere® Express, Navisphere Manager, SnapView™, SAN Copy™, MirrorView™</i>
AC Power/Max Current	960W