Dell | EMC CX4-120

Bringing a new level of performance, flexibility, and resource utilization to enterprise-class storage

Enterprise-class storage

Dell / EMC CX series storage arrays have built a reputation for performance, ease of use, scalability, flexibility, reliability, and investment protection since their initial launch in 2002. Now in their fourth generation, the CX4 arrays build on that reputation and are designed to greatly increase performance and capacity from the previous generation. The CX4 series provides impressive flexibility and investment protection with the introduction of new UltraFlex™ technology as they become available.

CX4-120

The Dell / EMC CX4-120 is the entry point to the CX family arrays and offers enterprise storage features at an affordable cost. It is an ideal product for customers who require increased capacity and modularity in a small but scalable footprint with enterprise-level data protection and high availability.

Ultraflex technology

The CX4 series introduces UltraFlex technology that enables the user to customize the network interconnect and number of ports needed to meet current and future storage requirements. The CX4-120 comes with standard Fibre Channel ports as well as either iSCSI or FCoE ports. It can be easily expanded with additional FC, iSCSI or Fibre Channel over Ethernet (FCoE) as needs change.

Massive scalability and flexibility

The CX4-120 supports up to 120 hard drives, connects to as many as 256 highly available hosts in a SAN, and has six UltraFlex I/O slots (three per controller) for connectivity customization, helping to provide investment protection for your enterprise storage needs. In addition, the CX4-120 supports enterprise flash drives (EFD). The CX4-120 consists of a 2U storage processing enclosure (SPE), a 1U standby power supply (SPS), and 3U disk array enclosures (DAEs), which contain up to 15 hard drives.

Reduce operational costs

Thin provisioning enables the CX4-120 to allocate space only as it is needed by hosts instead of setting up a large pool of storage that goes unused. The result is that fewer drives are required, helping to reduce hardware costs, management time and costs, and power consumption.

Fully automated storage tiering

Fully automated storage tiering (FAST) seamlessly moves 1GB chunks of data to different disk tiers based on performance requirements. On the CX4-120, flash drives can be used as a "Tier 0" for data with the highest performance requirements. Fibre Channel drives are available in both 10K and 15K rotational speeds as a Tier 1 for the next level of performance. 7.2K RPM SATA drives are available as a Tier 2 for high capacity and lower cost storage needs.

Help reduce power and cooling costs

The Dell / EMC CX4-120 delivers several features to help reduce power and cooling costs.

- Low power SATA drives consume up to 32% less energy than standard 7.2k RPM SATA drives*.
- Drive spin down comes standard on the CX4, which allows drives to be powered down when not in use.
- LUN Compression and Thin Provisioning reduces the amount of physical disks needed for a data set.
- Adaptive cooling optimizes fan speed to reduce power consumption.

Manage your data

Dell / EMC storage arrays now come with Unisphere, a task based, highly intuitive management interface that controls current and legacy CX environments. This enhancement reduces administrator overhead and improves reliability.

Solve your problems

Dell / EMC storage arrays are integrated into Dell's Exchange®, SQL Server®, and Oracle® solutions, which offer tested and validated reference architectures to help solve your messaging and database challenges.

Storage consulting from Dell

Offers a comprehensive suite of assessment, design and implementation services to help customers get the most from their Dell / EMC CX arrays, covering data management, application performance, data protection and cost of ownership. Dell Consultants can provide practical action-oriented plans, to deliver specific, predictable and measured outcomes through high-impact, short duration projects.

Feature	Dell | EMC CX4-120
Storage Capacity	Up to 72TB raw storage capacity with Fibre Channel drives; Up to 240TB with high-capacity SATA drives
Scalability	Up to 120 drives in the storage array
Number of Storage Processors	2 per array
System Cache	6GB standard. Up to 100GB with optional Fast Cache.
RAID Levels	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 6 FC and 2 iSCSI or 2 FC and 4 iSCSI direct attached HA connected hosts; Up to 256 SAN attached HA connected hosts
Front-End Connectivity (Ports Per Array)	Base Models: Four 4Gbit Fibre Channel and four 1Gbit iSCSI Four 8Gbit Fibre Channel and four 1Gbit iSCSI Four 8Gbit Fibre Channel and four 10Gbit iSCSI Four 8Gbit Fibre Channel and four 10Gbit FCoE Additional Optional UltraFlex IO Modules: 4Gbit Fibre Channel 8Gbit Fibre Channel 1Gbit iSCSI 10Gbit iSCSI 10Gbit Fibre Channel over Ethernet Valid configurations depend on selected base model. Visit dell.com/emc for details.
Drive Interface	4Gbit Fibre Channel interface Failover from each storage processor to both Fibre Channel loops is possible
Drives Available (Visit dell.com/emc for current capacities)	Enterprise Flash Drives 15k RPM Fibre Channel 10k RPM Fibre Channel 7.2k RPM SATA II 5.4k RPM SATA II (Low Power)
Available Software	EMC SnapView™, MirrorView™, Unisphere, Analyzer, Quality of Service Manager, PowerPath® (bundled), SAN Copy™, Thin Provisioning, LUN Compression, Fast Cache, Fully Automated Storage Tiering, Replication Manager Family, VMware®. RecoverPoint / SE
Dimensions	Storage Processing Enclosure with Standby Power Supplies Height: 5.25 in. (26.67 cm), 3 EIA units Width: 17.5 in. (44.45 cm) Depth: 24.25 in. (61.6 cm) Weight: 99.5 lbs. (45.4 kg) max. 4Gbit Fibre Channel Point-to-Point Disk Array Expansion Height: 5.25 in. (13.34 cm), 3 EIA units Width: 17.72 in (45.0 cm) Depth: 14.00 in. (35.56 cm) Weight: 68 lbs. (30.9 kg) max. configuration

* Based on drive specifications. Actual power consumption will vary based on configuration, usage, and manufacturing variability.

Simplify storage at Dell.com/EMC

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