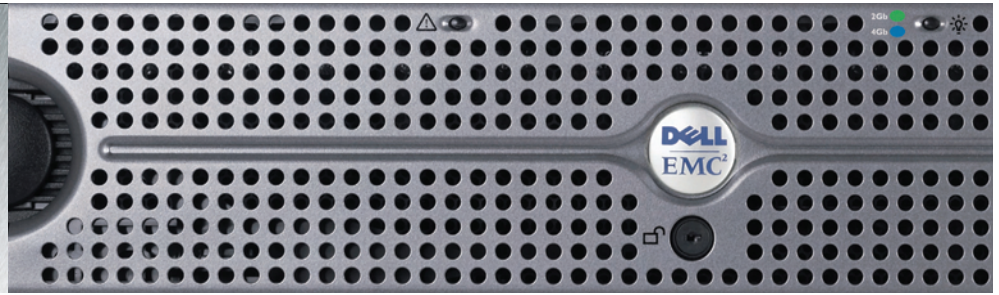# DELL|EMC CX3-20f AND CX3-20c

The enterprise networked storage platform for expanding SAN environments.

The Dell/EMC CX3 series delivers a true end-to-end 4Gb architecture to redefine Dell's midrange storage array market in performance and scalability. Now in its third generation, the Dell/EMC CX3 series offers a redesigned architecture that is designed to deliver maximum performance, versatile connectivity options and an expansive range of scalability.

The Dell/EMC CX3-20f and Dell/EMC CX3-20c represent the mid-point in the Dell/EMC CX3 series. Both 1U Storage Processor Enclosures (SPE) offer four 4Gb Fibre Channel host connections. The Dell/EMC CX3-20f offers twelve front end Fibre Channel ports that can support up to six direct attached, highly available (HA) hosts. The Dell/EMC CX3-20c includes not only four Fibre Channel ports, but also eight iSCSI ports for connection to hosts via Ethernet. Both models support directly connected hosts or up to 128 HA (dual-connected) SAN connected hosts, and both SPE's support up to 120 disk drives for a total capacity of up to 83TB.

The Dell/EMC CX3 series also marks the introduction of the new DAE4P which supports both Fibre Channel and Low Cost Fibre Channel drives allowing storage administrators to create an optimal blend of performance and capacity tailored to their unique application requirements.

Impressive Performance and Expansive Scalability

The third generation fully-integrated 4Gb Dell/EMC CX3 arrays can deliver 2x the capacity and dramatically increased performance as compared to the corresponding previous models. Throughput and performance gains can provide faster access to data, particularly applications characterized by large block sequential I/O (disk based backup and restore, audio/video streaming). Email/messaging, and database applications with defined capacity requirements may see shorter response times as well.

Designed to maximize throughput and performance, the Dell/EMC CX3 series is designed from the ground up to take advantage of end-to-end 4Gb architecture. State-of-the-art embedded storage processor technology utilizes the highly scalable PCI Express® interconnect, which offers low latency and high bandwidth.

Streamlined SAN deployment and Management Experience

To further streamline SAN deployment, Dell™ ships PowerEdge™ servers from the factory built-to-order with SAN components pre-installed to help streamline deployments. Fibre Channel Host Bus Adapters (HBAs) enable direct connectivity to a storage array or SAN fabric via a Fibre Channel switch. EMC Navisphere Manager Server Utility and PowerPath® can be pre-loaded on servers to reduce software installation and SAN configuration time.

To help reduce the complexity of managing a SAN, Dell offers simple systems management tools with robust capabilities such as Dell IT Assistant and EMC® Navisphere®. Moreover, core business applications, such as Oracle®, Microsoft® Exchange, Microsoft SQL™, are tested and validated on Dell enterprise systems to form a stable and supported infrastructure for your most critical information.

Learn more about the power of the Dell/EMC partnership at www.Dell.com/EMC

Dell/EMC CX3-20f
Dell/EMC CX3-20c

DELL IT INFRASTRUCTURE SERVICES

Dell helps simplify IT Services. The planning, implementation and maintenance of your IT infrastructure deserves nothing less. Complexity and variability in execution can compromise user productivity, IT resources, and ultimately, your reputation. By leveraging our expertise in simplifying IT Services, Dell delivers a higher value solution.

Our approach stems from our world-class, process management and "no excuses" culture, and delivers what customers today need most—a simpler IT solution. We start with your needs, since you know your business better than anyone, and apply our proven expertise to create a more simple IT solution for your business.

Infrastructure Consulting Services
Key challenges facing IT professionals today include simplifying operations, planning and building for scalability and improving utilization of existing systems. Dell's Infrastructure Consulting Services are organized into focused practice areas such as Systems Management, Messaging, Databases, Virtualization/Consolidation, and Storage, to help you resolve these challenges.

Deployment Services
Our Deployment Services are designed to simplify and speed up the deployment and utilization of new systems. Dell provides scalable processes and technology that can get your Dell storage systems up and running quickly. As a result, you don't need to divert your sophisticated IT resources away from mission critical activities. You get a single point of contact with real time measurement, seamless delivery and end-to-end deployment management.

Training Services
Make sure your employees have the knowledge and skills they need to fully utilize new technology. Dell offers comprehensive training services which include hardware and software training, and professional development classes. Dell training services can help you improve system reliability, maximize productivity, reduce end user requests and minimize downtime.

Asset Recovery and Recycling Services
Most IT personnel just don't have the time to properly dispose of, resell or donate unused computer equipment. Dell provides a simple, end-of-life process that maximizes the value of the overall IT solution.

Enterprise Support Services
Dell's Enterprise Support Services provide you with robust, flexible support for your server and storage systems, and help ensure your IT systems consistently achieve their performance potential. Through proactive maintenance, our specialist support teams can help you prevent problems before they happen, prepare in advance for any elevated IT demands, and achieve the fastest and most complete approach to problem resolution. Our innovative service technologies and processes enable a new level of performance management and consistent improvement. When your business requires nothing less than the very best support, Dell's Enterprise Support Services are the answer.

To help you get the most from your Dell systems, visit www.dell.com/services.

Services vary by region.

www.dell.com

FEATURES

Storage capacity	Up to 36TB raw storage capacity with Fibre Channel drives; Up to 83TB with high capacity SATA drives
Scalability	Up to 8 disk array enclosures (DAE4P); Up to 120 drives in the storage array
Cache	4GB
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, Linux,® Solaris,™ VMware,® AIX, HP-UX
Number of supported hosts	Up to 6 HA direct attached servers; Up to 128 HA connected servers
Front end connectivity	Dell/EMC CX3-20f: Twelve 4Gb Fibre Channel ports per array (six per Storage Processor); Dell/EMC CX3-20c: Four 4Gb Fibre Channel and eight iSCSI ports per array (six ports per Storage Processor)
Drive interface	Dual, independent FC-AL interface ports on each drive; Failover from each storage processor to both fibre channel loops is possible
Drives available	Fibre drives: 73GB 15k RPM disk with 4Gb Fibre Channel interface; 146GB 10k RPM disk with 2Gb Fibre Channel interface; 146GB 15k RPM disk with 4Gb Fibre Channel interface; 300GB 10k RPM disk with 2Gb Fibre Channel interface; 300GB 15k RPM disk with 4Gb Fibre Channel interface; 500GB 7200 RPM SATA II disk with 4Gb Fibre Channel interface 750GB 7200 RPM SATA II disk with 4Gb Fibre Channel interface
Available software	EMC Navisphere Manager, EMC SnapView,™ EMC SAN Copy,™ EMC MirrorView,™ Access Logix,™ EMC PowerPath™
Dimensions	Rackmount Processor Chassis with Standby Power Supplies (standard NEMA 19-inch rack) Height: 3.29 in. (8.36 cm) 2 EIA units Width: 18.92 in. (48.06 cm) Depth: 31.58 in. (80.21 cm) Weight: 90.0 lb. (41.0 kg) max. Rackmount 4Gb Fibre Channel Point-to-Point Disk Expansion Chassis (DAE4P) with Dual Power Supplies Height: 5.25 in. (13.33 cm) 3 EIA units Width: 17.72 in. (45.0 cm) Depth: 14.00 in. (35.36 cm) Weight: 68 lb. (30.9 kg) max. configuration

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