

EMC CLARiiON CX3 Model 20 Networked Storage System

Specifications

RAID Levels

RAID 0: Data striped across three to six drives.
RAID 1: Mirrored pairs of two drives.
RAID 10: Data mirrored, then striped across four to six drives.
RAID 3: Independent data access on five or nine drives (with dedicated parity disk).
RAID 5: Independent data access on three to six drives (with striped parity).
Any combination of these RAID levels can exist on a single CX3 model 20.
RAID stripe depth configurable to 4, 16, 64, 128, or 256 sectors per disk.
MetaLUNs: Storage virtualization via online LUN expansion through either striping or concatenation.
Configurable global hot spares.
Rebuild priority tuning: adjustment of minimum I/O reserved for server use during rebuild.

Front-End (Host) Connectivity

Two storage processors per CX3 model 20.
Each storage processor has two 4 Gb Fibre Channel optical ports.
FCP SCSI-3 protocol.
Command tag queuing up to 256 tags.
FC-AE and FC-SB support.
Maximum Cable Length
Shortwave Optical: 100 meters (4 Gb), 300 meters (2 Gb), 300 meters (3 Gb).

Back-End (Disk) Connectivity

Each storage processor has one 4 Gb Fibre Channel Arbitrated Loop. CX3 model 20 supports a maximum of 128 disk drives.

Drive Interface

Failover from each storage processor to both Fibre Channel loops is possible.

Nominal Capacity	73 GB (64,000)	146 GB (128,000)	292 GB (256,000)	584 GB (512,000)	73 GB 4 GB/s (64,000)	146 GB 4 GB/s (128,000)
Formatted Capacity*	60.7 GB	121 GB	242 GB	484 GB	60.7 GB	121 GB
Spindle Capacity* (120 bytes/sector, 1 MB = 1,048,576 bytes)	60.7 GB	121 GB	242 GB	484 GB	60.7 GB	121 GB
Form Factor	3.5"	3.5"	3.5"	3.5"	3.5"	3.5"
Height	1.0"	1.0"	1.0"	1.0"	1.0"	1.0"
Rotational Speed	15,000 rpm	15,000 rpm	15,000 rpm	15,000 rpm	15,000 rpm	15,000 rpm
Interface	Fibre Channel	Fibre Channel	Fibre Channel	Fibre Channel	Fibre Channel	Fibre Channel
Data Buffer	64 MB	32 MB	32 MB	64 MB	64 MB	32 MB
Transfer Rates						
Buffer to/from Media	24.7-25.2 MB/s	49.4 MB/s	98.8 MB/s	197.6 MB/s	24.7-25.2 MB/s	49.4 MB/s
MB/s						
SP to/from Buffer	200 MB/s (max.)	200 MB/s (max.)	200 MB/s (max.)	200 MB/s (max.)	200 MB/s (max.)	200 MB/s (max.)
Access Time						
Average Seek	5.2 ms Read 6.2 ms Write	4.7 ms Read 5.3 ms Write	4.7 ms Read 5.4 ms Write	8.5 ms Read 9.5 ms Write	5.6 ms Read 4.9 ms Write	5.1 ms Read 4.9 ms Write
Rotational Latency	2.09 ms	2.09 ms	2.09 ms	4.07 ms	2 ms	2 ms

* Note: The FLARE[®] storage operating environment requires 33 GB of disk space on each of the first five drives.

Available Software*

SnapView[™]: point-in-time view of information for nondisruptive backup and clones.
MirrorView[™]: remote synchronous and asynchronous mirroring for disaster protection.
Online Upgrade: online upgrades of storage software and FLARE operating system.
Navisphere[™] Manager: complete configuration, management, and event notification.
Navisphere Analyzer: comprehensive performance, management, and trends analysis.
CLARient[™]: constant system monitoring, call-home notification, and remote diagnostics.
PowerPath[™]: path failover for continuous data access and dynamic load balancing.
SAN Copy[™]: enables local or long distance data movement between various arrays (e.g., CLARiiON, Symmetrix[®], HP StorageWorks).
VirtualSAN[™]/InfoScale[™]: data protection, shared storage access, SAN management.
Replication Manager Family: manages the replication process (host and replication software) to integrate SnapView and MirrorView operations.
Virtualware[™]: enables server consolidation with CLARiiON storage.

* Consult your EMC account manager for availability, software configuration, and compatibility information.

EMC[®] CLARiiON[®] CX3 systems can be integral elements of a comprehensive information lifecycle management strategy—a strategy that helps your enterprise attain the maximum value from its information, at the lowest TCO, at every point in the information lifecycle. Information lifecycle management maps the right service level to the right application at the right cost—at the right time.



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L Reisser



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Table of Contents Emc Networked Storage Topology Guide

1. Understanding the eBook Emc Networked Storage Topology Guide
 - The Rise of Digital Reading Emc Networked Storage Topology Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Emc Networked Storage Topology Guide
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Emc Networked Storage Topology Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Emc Networked Storage Topology Guide
 - Personalized Recommendations
 - Emc Networked Storage Topology Guide User Reviews and Ratings
 - Emc Networked Storage Topology Guide and Bestseller Lists
5. Accessing Emc Networked Storage Topology Guide Free and Paid eBooks

- Emc Networked Storage Topology Guide Public Domain eBooks
- Emc Networked Storage Topology Guide eBook Subscription Services
- Emc Networked Storage Topology Guide Budget-Friendly Options
- 6. Navigating Emc Networked Storage Topology Guide eBook Formats
 - ePub, PDF, MOBI, and More
 - Emc Networked Storage Topology Guide Compatibility with Devices
 - Emc Networked Storage Topology Guide Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Emc Networked Storage Topology Guide
 - Highlighting and Note-Taking Emc Networked Storage Topology Guide
 - Interactive Elements Emc Networked Storage Topology Guide
- 8. Staying Engaged with Emc Networked Storage Topology Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Emc Networked Storage Topology Guide
- 9. Balancing eBooks and Physical Books Emc Networked Storage Topology Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Emc Networked Storage Topology Guide
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Emc Networked Storage Topology Guide
 - Setting Reading Goals Emc Networked Storage Topology Guide
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Emc Networked Storage Topology Guide
 - Fact-Checking eBook Content of Emc Networked Storage Topology Guide
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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