

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
Formatted Capacity* (120 bytes/sector, 1 MB = 1,048,576 bytes)						
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	3.6 ms Read 4.9 ms Write	3.5 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[™]/InfoStash[™]: data protection, shared storage access, SAN management.
Replication Manager Family: manages the replication process (host and replication software) to integrate SnapView and MirrorView operations.
Veritas[™]: 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.



Emc Networked Storage Topology Guide

Wolfgang Guggemos

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