

EMC Symmetrix DMX800

Open Systems and Mainframe Specifications

Sample Configuration Data

73GB Drives

Addressable Drives	SRDF Usable Capacity (GB)*		Addressable Drives	Mirrored Usable Capacity (GB)*		Maximum Global Memory (GB)**
	Open	Mainframe		Open	Mainframe	
8	585	577	4	292	289	32
16	1,169	1,155	8	584	577	32
64	4,678	4,618	32	2,339	2,309	32
96	7,017	6,920	48	3,508	3,464	32
120	8,772	8,660	60	4,386	4,330	32

Addressable Drives	Parity RAID (3+1) Usable Capacity (GB)*		Addressable Drives	Parity RAID (7+1) Usable Capacity (GB)*		Maximum Global Memory (GB)**
	Open	Mainframe		Open	Mainframe	
6	439	433	7	512	505	32
12	877	866	14	1,023	1,010	32
48	3,508	3,464	56	4,093	4,041	32
72	5,263	5,196	84	6,140	6,062	32
90	6,579	6,495	105	7,675	7,578	32

146GB Drives

Addressable Drives	SRDF Usable Capacity (GB)*		Addressable Drives	Mirrored Usable Capacity (GB)*		Maximum Global Memory (GB)**
	Open	Mainframe		Open	Mainframe	
8	1,168	1,157	4	584	578	32
16	2,336	2,314	8	1,168	1,157	32
64	9,344	9,254	32	4,672	4,627	32
96	14,016	13,881	48	7,008	6,941	32
120	17,520	17,352	60	8,760	8,676	32

Addressable Drives	Parity RAID (3+1) Usable Capacity (GB)*		Addressable Drives	Parity RAID (7+1) Usable Capacity (GB)*		Maximum Global Memory (GB)**
	Open	Mainframe		Open	Mainframe	
6	876	868	7	1,022	1,012	32
12	1,752	1,735	14	2,044	2,024	32
48	7,008	6,941	56	8,176	8,098	32
72	10,512	10,411	84	12,264	12,146	32
90	13,140	13,014	105	15,330	15,183	32

Configurations of mixed 73GB and 146GB disks are allowed.
 Parity RAID 3+1 or 7+1 and RAID 1 (Mirroring) can coexist in the same system.
 Parity RAID 3+1 and Parity 7+1 cannot coexist in the same system.
 12GB of the total raw capacity will be reserved for internal Symmetrix File System use.
 *All capacities are based on 1GB=1,000,000,000 bytes.
 **Individual system global memory sizes are based upon specific configurations and customer requirements.

Disk Drive Connectivity

Disk Directors	2
Total number of 2Gb Fibre Channel ports	8 or 16
Number of redundant 2Gb Fibre Channel loops	4 or 8
Disk Drives per redundant Fibre Channel loop	4 to 15

Host Connectivity

DMX800	Open Systems		Mainframe	
	Min	Max	Min	Max
Fibre Channel Ports	8	16	-	-
Gigabit Ethernet Ports	2	4	-	-
iSCSI Ports	2	4	-	-
FICON Ports	-	-	2	4

Note: Mixed combinations of the above port types are supported.
 ESP software is required to run mainframe with open systems interfaces.

Disk Emulation

DMX800	Open Systems	3380K	3390-1	3390-2	3390-3	3390-9	3390-27
MB/Volume	30,720	1,891	946	1,892	2,838	8,514	27,845
Bytes/Track	32,768	47,476	56,66 4	56,66 4	56,66 4	56,66 4	56,664
Bytes/Cylinder	491,520	712,140	849,960	849,960	849,960	849,960	849,960
Cylinders/Volume	65,536	2,655	1,113	2,226	3,339	10,017	32,760



Hyper-Volume Extension (HVE)

	Open Systems			Mainframe					
	2GB*	4GB*	9GB*	3380K*	3390-1	3390-2*	3390-3*	3390-9*	3390-27*
73GB Drives									
Maximum Complete Logical Volumes	36	18	8	36	75	37	25	8	2
146GB Drives									
Maximum Complete Logical Volumes	73	36	16	73	128	75	50	16	5

Hyper-Volume Extension provides the ability to configure a single physical disk device as multiple logical volumes in logical-to-physical relationships ranging from 1:1 to 128:1.

* A single physical disk device can support multiple model types within a single data format emulation mode.

Available Software*

Platform Software	Double Checksum InfoMover SRDF/Data Mobility TimeFinder	SRDF/A EMC Snap ECRC	Enterprise Storage Platform (ESP) Symmetrix Remote Data Facility (SRDF) Symmetrix Data Migration Services (SDMS)
Intelligent Supervision	ControlCenter Automated Resource Manager ControlCenter StorageScope ControlCenter Symmetrix Manager ControlCenter Symmetrix Optimizer ControlCenter SAN Manager		ControlCenter SAN Architect ControlCenter AutoAdvice ControlCenter Common Array Manager ControlCenter Workload Analyzer ControlCenter Database Tuner
Information Safety	EMC Data Manager (EDM) ControlCenter Symmetrix Data Mobility Manager CopyCross		EMC Replication Manager ControlCenter SRDF/TimeFinder Manager
Infrastructure Services	GeoSpan Family ResourcePak for Windows	COMPAV/MA PowerPath	ResourcePak Base for OS/390 and z/OS ResourcePak Extended for OS/390 and z/OS

* Contact your EMC sales representative for software license model numbers, prerequisites, and additional information.

Interoperability Support

Symmetrix systems support all popular hardware and operating system platforms, storage area networks (SANs), and high-availability cluster environments. Refer to the EMC Support Matrix on EMC.com or contact your local EMC sales representative for specific configuration support.

Physical Specifications*

System in Rack				
Height** (in/cm)	Width (in/cm)	Depth (in/cm)	Front Service Area*** (in/cm)	Rear Service Area (in/cm)
75.0/190.5	24.0/61.0	36.0/91.4	48.0/122.0	48.0/122.0
Component Heights				
SPE (in/u)	10.5/6	RS-232 Switch (in/u)	3.50/2	
DAE (in/u)	5.25/3	Server (in/u)	1.75/1	
SPS (in/u)	1.75/1			

*Values represent maximum figures for each configuration.

**An additional 18 inches (45.7cm) is required for ceiling/top clearance.

***An additional side clearance of 18 inches (45.7cm) to the left and 28 inches (71.1cm) to the right of the front service area is required.

Weight*

Number of DAEs **	2	3	4	5	6	7	8
Weight (lb/kg)	843/382.4	1,003/455.0	1,099/498.5	1,195/542.0	1,348/611.4	1,501/680.8	1,596/723.9

*Values represent maximum figures for each configuration.

** Fully populated with drives.

Power and Cooling Data*

Number of DAEs **	2	3	4	5	6	7	8
Power Consumption (kVA)	1.97	2.41	2.82	3.23	3.64	4.05	4.46
Heat Dissipation (Btu/hr)	6,725	8,209	9,608	11,007	12,406	13,804	15,203

*Values represent maximum figures for each configuration.

** Fully populated with drives.

Power Specifications

	North America	International
Input Voltage (VAC)	200-240, single phase	200-240, single phase
Frequency (Hz)	47-63	47-63
Circuit Breaker (Amps), recommended	32	32
Power Drops	2	2
Power Connector	(2) L630P	Country Specific
User Connector	(2) L630R	Country Specific
Auto-Call Modem Requirements	North American installations require connection to a 110VAC power source at 60Hz through a NEMA 5-15R receptacle. International installations are country specific.	

Environmental Specifications (operating)

Temperature (°F/°C)	50-90°F/10-32°C
Altitude (ft/m), max.	8,000/2,500
Humidity (%), non-condensing	20-80
Raised Floor	Not Required



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Specification Sheet

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