

Symmetrix DMX800

Open Systems Specifications

Sample Configuration Data

73GB Drives

| Addressable Drives | SRDF Usable Capacity (GB)* Open | Addressable Drives | Mirrored Usable Capacity (GB)* Open | Maximum Cache (MB)** |
|--------------------|------------------------------------|--------------------|--|----------------------|
| 16 | 1,169 | 8 | 584 | 32,768 |
| 32 | 2,339 | 16 | 1,169 | 32,768 |
| 64 | 4,678 | 32 | 2,339 | 32,768 |
| 96 | 7,017 | 48 | 3,508 | 32,768 |
| 120 | 8,772 | 60 | 4,386 | 32,768 |

| Addressable Drives | Parity RAID (3+1) Usable Capacity (GB)* Open | Addressable Drives | Parity RAID (7+1) Usable Capacity (GB)* Open | Maximum Cache (MB)** |
|--------------------|---|--------------------|---|----------------------|
| 12 | 877 | 14 | 1,023 | 32,768 |
| 24 | 1,754 | 28 | 2,046 | 32,768 |
| 48 | 3,508 | 56 | 4,093 | 32,768 |
| 72 | 5,263 | 84 | 6,140 | 32,768 |
| 90 | 6,579 | 105 | 7,675 | 32,768 |

146GB Drives

| Addressable Drives | SRDF Usable Capacity (GB)* Open | Addressable Drives | Mirrored Usable Capacity (GB)* Open | Maximum Cache (MB)** |
|--------------------|------------------------------------|--------------------|--|----------------------|
| 16 | 2,336 | 8 | 1,168 | 32,768 |
| 32 | 4,672 | 16 | 2,336 | 32,768 |
| 64 | 9,344 | 32 | 4,672 | 32,768 |
| 96 | 14,016 | 48 | 7,008 | 32,768 |
| 120 | 17,520 | 60 | 8,760 | 32,768 |

| Addressable Drives | Parity RAID (3+1) Usable Capacity (GB)* Open | Addressable Drives | Parity RAID (7+1) Usable Capacity (GB)* Open | Maximum Cache (MB)** |
|--------------------|---|--------------------|---|----------------------|
| 12 | 1,752 | 14 | 2,044 | 32,768 |
| 24 | 3,504 | 28 | 4,088 | 32,768 |
| 48 | 7,008 | 56 | 8,176 | 32,768 |
| 72 | 10,512 | 84 | 12,264 | 32,768 |
| 90 | 13,140 | 105 | 15,330 | 32,768 |

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 cache sizes are based upon specific configurations and customer requirements.

Disk Drive Connectivity

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

Host Connectivity

| DMX800 | Open Systems | |
|---------------------|--------------|-----|
| | Min | Max |
| Fibre Channel Ports | 16 | 16 |

Disk Emulation

| DMX800 | Open Systems |
|------------------|--------------|
| MB/Volume | 30,720 |
| Bytes/Track | 32,768 |
| Bytes/Cylinder | 491,520 |
| Cylinders/Volume | 65,536 |

Symmetrix DMX800





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In North America
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Specification Sheet

C1007

Hyper-Volume Extension (HVE)

| | Open Systems | | |
|----------------------------------|--------------|------|------|
| | 2GB* | 4GB* | 9GB* |
| 73GB Drives | | | |
| Maximum Complete Logical Volumes | 36 | 18 | 8 |
| 146GB Drives | | | |
| Maximum Complete Logical Volumes | 73 | 36 | 16 |

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 | Symmetrix Remote Data Facility (SRDF) Symmetrix Data Migration Services (SDMS) TimeFinder |
| Intelligent Supervision | ControlCenter Automated Resource Manager ControlCenter StorageScope ControlCenter Symmetrix Manager ControlCenter Symmetrix Optimizer | ControlCenter SAN Manager ControlCenter Common Array Manager ControlCenter Workload Analyzer ControlCenter Database Tuner |
| Information Safety | EMC Data Manager (EDM) ControlCenter Symmetrix Data Mobility Manager | EMC Replication Manager ControlCenter SRDF/TimeFinder Manager |
| Infrastructure Services | GeoSpan Family ResourcePak for Windows | PowerPath |

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

Multihost Support

Symmetrix Enterprise Storage 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) | 10.5/6u | | | |
| DAE (in/u) | 5.25/3u | | | |
| SPS (in/u) | 1.75/1u | | | |

*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) | 802/364.5 | 957/435.0 | 1,046/475.5 | 1,136/516.4 | 1,282/582.7 | 1,429/649.5 | 1,518/690.0 |

*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) | 180-240 | 180-240 |
| Frequency (Hz) | 47-63, single phase | 47-63, single phase |
| Circuit Breaker (Amps), max. | 32 | 32 |
| Power Drops | 2 | 2 |
| Power Connector | L630P | Country Specific |
| User Connector | 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 |