

# Symmetrix 8530

## Open Systems and Mainframe Specifications

### Sample Configuration Data

#### 8530-36 Models

Addressable Drives	Open Systems Raw Capacity (GB)*	Mirrored Capacity (GB)*		SRDF Capacity (GB)*		RAID-S Capacity (GB)*		Maximum Cache (MB)**
		Open	Mainframe	Open	Mainframe	Open	Mainframe	
8	290	145	143	290	286	217	215	65,536
24	869	434	430	869	859	652	644	65,536
48	1,738	869	859	1,738	1,718	1,303	1,289	65,536
96	3,475	1,737	1,718	3,475	3,436	2,606	2,578	65,536

#### 8530-73 Models

Addressable Drives	Open Systems Raw Capacity (GB)*	Mirrored Capacity (GB)*		SRDF Capacity (GB)*		Maximum Cache (MB)**
		Open	Mainframe	Open	Mainframe	
8	584	292	289	585	577	65,536
24	1,754	877	866	1,754	1,732	65,536
48	3,509	1,754	1,732	3,509	3,464	65,536
96	7,018	3,509	3,464	7,018	6,928	65,536

#### 8530-146 Models

Addressable Drives	Open Systems Raw Capacity (GB)*	Mirrored Capacity (GB)*		SRDF Capacity (GB)*		Maximum Cache (MB)**
		Open	Mainframe	Open	Mainframe	
8	1,168	584	578	1,168	1,157	65,536
24	3,504	1,752	1,735	3,504	3,470	65,536
48	7,008	3,504	3,470	7,008	6,940	65,536
96	14,016	7,008	6,941	14,016	13,882	65,536

#### 8530-181 Models

Addressable Drives	Open Systems Raw Capacity (GB)*	Mirrored Capacity (GB)*		SRDF Capacity (GB)*		Maximum Cache (MB)**
		Open	Mainframe	Open	Mainframe	
8	1,448	724	715	1,448	1,430	65,536
24	4,344	2,172	2,144	4,344	4,289	65,536
48	8,688	4,344	4,289	8,688	8,578	65,536
96	17,376	8,688	8,578	17,376	17,155	65,536

Configurations of mixed 36GB, 73GB, 146GB and 181GB disks are allowed  
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. For AS/400 capacities, contact your EMC sales representative.

\*\*Individual model cache capacities are based upon specific configurations and customer requirements.

### Host Connectivity

8530	Open Systems		Mainframe	
	Min.	Max.	Min.	Max.
Fibre Channel (4 ports supporting FC protocol at 1Gb/s or 2Gb/s)	8	24	-	-
Fibre Channel (12 ports supporting FC protocol at 1Gb/s)	24	72	-	-
Ultra/Ultra2 SCSI (4 ports supporting Ultra SCSI (40MB/s) or Fast/Wide SCSI (20MB/s))	8	24	-	-
FICON (2 ports supporting FICON at 1Gb/s)	-	-	4	12
ESCON (4 ports)	-	-	8	24

Note: Mixed ESCON, FICON, Ultra/Ultra 2 SCSI, and Fibre Channel interfaces are supported.

ESP software is required to run ESCON or FICON mixed with SCSI and/or Fibre Channel interfaces.

### Disk Emulation

8530	FBA	3380K	3390-1	3390-2	3390-3	3390-9	3390-27
MB/Volume	15,979*	1,891	946	1,892	2,838	8,514	27,845
Bytes/Track	32,768	47,476	56,664	56,664	56,664	56,664	56,664
Bytes/Cylinder	491,520	712,140	849,960	849,960	849,960	849,960	849,960
Cylinders/Volume	32,510*	2,655	1,113	2,226	3,339	10,017	32,760

\*Values represent maximum figures for each configuration.

### Hyper-Volume Extension (HVE)

Emulation Mode*	Open Systems			Mainframe					
	2GB**	4GB**	9GB**	3380K**	3390-1	3390-2**	3390-3**	3390-9**	3390-27**
<b>36 GB drives</b>									
Maximum Complete Logical Volumes	18	9	4	18	37	18	12	4	1
<b>73 GB drives</b>									
Maximum Complete Logical Volumes	36	18	8	36	64	38	25	8	2
<b>146 GB drives</b>									
Maximum Complete Logical Volumes	64	36	16	64	64	64	50	16	4
<b>181 GB drives</b>									
Maximum Complete Logical Volumes	64	45	20	64	64	64	64	21	6

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 64.

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

\*\* This emulation mode provides additional space on the physical disk device for use as either a lower than full capacity logical volume for the specified emulation mode, or as a different, smaller model type within the same emulation mode.

Symmetrix 8530





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Specification Sheet  
C868.7

### Available Software\*

<b>Platform Software</b>	Double Checksum InfoMover SRDF/Data Mobility TimeFinder	Enterprise Storage Platform (ESP) Symmetrix Remote Data Facility (SRDF) Symmetrix Data Migration Services (SDMS)
<b>Intelligent Supervision</b>	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
<b>Information Safety</b>	EMC Data Manager (EDM) ControlCenter Symmetrix Data Mobility Manager CopyCross	EMC Replication Manager ControlCenter SRDF/TimeFinder Manager
<b>Infrastructure Services</b>	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\*

Height** (in/cm)	Width (in/cm)	Depth (in/cm)	Front Service Area (in/cm)	Rear Service Area (in/cm)
73.6/187	24.25/61.6	36.4/92.5	36.0/91.5	36.0/91.5

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

### Weight\*

Physical Drives	8	12	16	32	64	96
Weight (lb/kg)	973/442	989/449	1,004/456	1,065/484	1,186/539	1,308/594

### Power and Cooling Data\*

Physical Drives	8	12	16	24	32	64	96
Power Consumption (kVA)	2.19	2.27	2.35	2.51	2.67	3.31	3.95
Heat Dissipation (Btu/hr)	7,474	7,747	8,020	8,566	9,112	11,297	13,378

### Power Specifications

	North America	International
Input Voltage (VAC)	208/240 (240 VAC is optimal)	Country Specific
Frequency (Hz)	60, single phase	Country Specific
Circuit Breaker (Amps), max.	30	Country Specific
Power Connector	(2) Russellstoll 3750	Country Specific
User Connector	(2) Russellstoll 3933 (flex) (2) Russellstoll 3753 (rigid)	Country Specific
Auto-Call Modem Requirements	The Auto-Call modem requires 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	Required

\*Values represent maximum figures for each configuration.