

Symmetrix 8530-36/-73/-181

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Open Systems and Mainframe Specifications

Sample Configuration Data

8530-36 Models

Physical Disks	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	289	144	143	289	286	217	214	65,536
12	434	217	214	434	429	325	322	65,536
16	579	289	286	579	572	434	429	65,536
32	1,158	579	572	1,158	1,145	868	859	65,536
64	2,316	1,158	1,145	2,316	2,291	1,737	1,718	65,536
96	3,475	1,737	1,718	3,475	3,436	2,606	2,577	65,536

8530-73 Models

Physical Disks	Open Systems Raw Capacity (GB)*	Mirrored Capacity (GB)*		SRDF Capacity (GB)*		Maximum Cache (MB)**
		Open	Mainframe	Open	Mainframe	
8	584	292	288	584	577	65,536
12	877	438	433	877	866	65,536
16	1,169	584	577	1,169	1,154	65,536
32	2,339	1,169	1,154	2,339	2,309	65,536
64	4,678	2,339	2,309	4,678	4,618	65,536
96	7,017	3,508	3,464	7,017	6,928	65,536

8530-181 Models

Physical Disks	Open Systems Raw Capacity (GB)*	Mirrored Capacity (GB)*		SRDF Capacity (GB)*		Maximum Cache (MB)**
		Open	Mainframe	Open	Mainframe	
8	1,448	724	714	1,448	1,429	65,536
12	2,172	1,086	1,072	2,172	2,144	65,536
16	2,896	1,448	1,429	2,896	2,859	65,536
32	5,792	2,896	2,859	5,792	5,718	65,536
64	11,584	5,792	5,718	11,584	11,436	65,536
96	17,376	8,688	8,577	17,376	17,155	65,536

Note: Hyper-Volume Extension can increase the number of logical volumes to 8,000 maximum. Configurations of mixed 36GB, 73GB, 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

8530-36/-73/-181	Open Systems		Mainframe	
	Min	Max	Min	Max
Fibre Channel – 2 pt.	4	12	–	–
Fibre Channel – 4 pt.	8	24	–	–
Fibre Channel – 8 pt.	16	48	–	–
Fibre Channel – 12 pt.	24	72	–	–
Ultra/Ultra 2 SCSI* – 4 pt.	8	24	–	–
ESCON® – 4 pt.	–	–	8	24
FICON – 2 pt.	–	–	4	12

*Support for both Ultra SCSI (40MB/Sec.) and Fast Wide SCSI (20MB/Sec.) modes

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

8530-36/-73/-181	FBA	3380K	3390-1	3390-2	3390-3	3390-9
MB/Volume	15,979*	1,891	946	1,892	2,838	8,514
Bytes/Track	32,768	47,476	56,664	56,664	56,664	56,664
Bytes/Cylinder	491,520	712,140	849,960	849,960	849,960	849,960
Cylinders/Volume	32,510*	2,655	1,113	2,226	3,339	10,017

*Values represent maximum figures for each configuration.

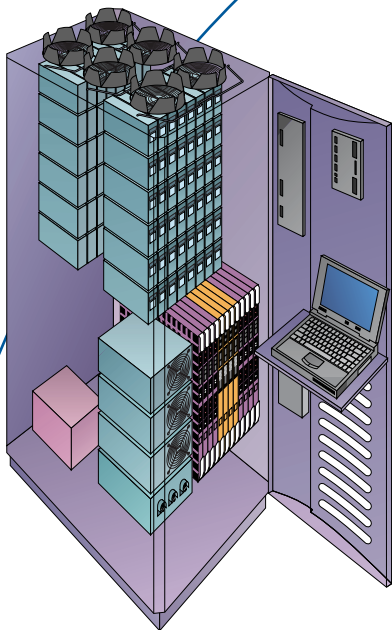
Hyper-Volume Extension (HVE)

Emulation Mode*	Open Systems			Mainframe				
	2GB**	4GB**	9GB**	3380K**	3390-1	3390-2**	3390-3**	3390-9**
8530-36 Models								
Maximum Complete Logical Volumes	18	9	4	18	37	18	12	4
8530-73 Models								
Maximum Complete Logical Volumes	36	18	8	36	75	38	25	8
8530-181 Models								
Maximum Complete Logical Volumes	90	45	20	91	128	94	62	21

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.

** 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.



Available Software*

Information Protection	Information Protection SRDF/Data Mobility CopyPoint TimeFinder EMC Data Manager (EDM)	Symmetrix Remote Data Facility (SRDF) Symmetrix Data Migration Services (SDMS) CopyCross GeoSpan EMC Foundation Suite and Database Edition for Oracle
Information Sharing	InfoMover	Symmetrix Enterprise Storage Platform (ESP)
Information Management	ESN Manager EMC ControlCenter Suite Resource Pak for Windows Catalog Solutions Symmetrix Data Mobility Manager PowerPath Connectrix Manager	

* 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 and high availability cluster environments, including those from the vendors listed below. Contact your EMC representative for specific hardware, software, and cluster configuration support.

Vendor	Fujitsu Siemens	Linux	Silicon Graphics	Windows 2000
Ascend	Hewlett Packard	NCR	Stratus	
Bull	IBM	NEC	Sun Microsystems	
Compaq/DEC	ICL	Novell	Unisys	
Data General	Intel-based servers	Sequent	Windows NT	

Note: Contact your local EMC sales representative for specific hardware and software configurations.

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 Volumes	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 Volumes	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
User Connector	(2) Russellstoll 3933 (flex) (2) Russellstoll 3753 (rigid)	Country Specific
Power Connector	(2) Russellstoll 3750	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.

EMC²

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Specification Sheet
C868.2