

Symmetrix 8230-36/-73/-181

Open Systems and Mainframe Specifications

Sample Configuration Data

8230-36 Models

Physical Disks	Raw Capacity (GB)*	Mirrored Capacity (GB)*		RAID-S Capacity (GB)*		SRDF Capacity (GB)*		Maximum Cache (MB)**
		Open	Mainframe	Open	Mainframe	Open	Mainframe	
4	144	72	71	108	107	144	143	32,768
8	289	144	143	217	214	289	286	32,768
12	434	217	214	325	322	434	429	32,768
16	579	289	286	434	429	579	572	32,768
24	868	434	429	651	644	868	859	32,768
32	1,158	579	572	868	859	1,158	1,145	32,768
48	1,737	868	859	1,303	1,288	1,737	1,718	32,768

8230-73 Models

Physical Disks	Raw Capacity (GB)*	Mirrored Capacity (GB)*		SRDF Capacity (GB)*		Maximum Cache (MB)**
		Open	Mainframe	Open	Mainframe	
4	292	146	144	292	288	32,768
8	584	292	288	584	577	32,768
12	877	438	433	877	866	32,768
16	1,169	584	577	1,169	1,154	32,768
24	1,754	877	866	1,754	1,732	32,768
32	2,339	1,169	1,154	2,339	2,309	32,768
48	3,508	1,754	1,732	3,508	3,464	32,768

8230-181 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	32,768
12	2,172	1,086	1,072	2,172	2,144	32,768
16	2,896	1,448	1,429	2,896	2,859	32,768
24	4,344	2,171	2,144	4,344	4,288	32,768

Note: Hyper-Volume Extension can increase the number of logical volumes to 2,048 mirrored volumes. Configurations of mixed 36GB and 73GB disks are allowed. 181GB disks may not be mixed with other sizes. 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

8230-36/-73/-181	Open Systems		Mainframe	
	Min	Max	Min	Max
Fibre Channel – 2 pt.	4	4	–	–
Fibre Channel – 4 pt.	8	8	–	–
Fibre Channel – 8 pt.	16	16	–	–
Fibre Channel – 12 pt.	24	24	–	–
Ultra/Ultra 2 SCSI* – 4 pt.	8	8	–	–
ESCON – 4 pt.	–	–	8	8
FICON – 2 pt.	–	–	4	4

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

Disk Emulation

8830-36/-73/-181	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**
8230-36 Models									
Maximum Complete Logical Volumes	18	9	4	18	37	18	12	4	1
8230-73 Models									
Maximum Complete Logical Volumes	36	18	8	36	75	38	25	8	2
8230-181 Models									
Maximum Complete Logical Volumes	90	45	20	91	128	94	62	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 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.

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Available Software*

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

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

Multihost Support

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

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 Clearance (in/cm)	Rear Service Clearance (in/cm)
72/182.88	11.5/29.21 (20.5/52 w/stabilizer extended)	37/93.98	36.0/91.5	36.0/91.5

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

Weight*

Physical Volumes	4	8	12	24	32	48
Weight (lb/kg)	510/232	522/237	534/243	569/259	593/270	640/291

Power and Cooling Data*

Physical Volumes	4	8	12	24	32	48
Power Consumption (kVA)	0.45	0.68	0.91	1.37	1.60	1.84
Heat Dissipation (Btu/hr)	1,535	2,320	3,105	4,675	5,460	6,143

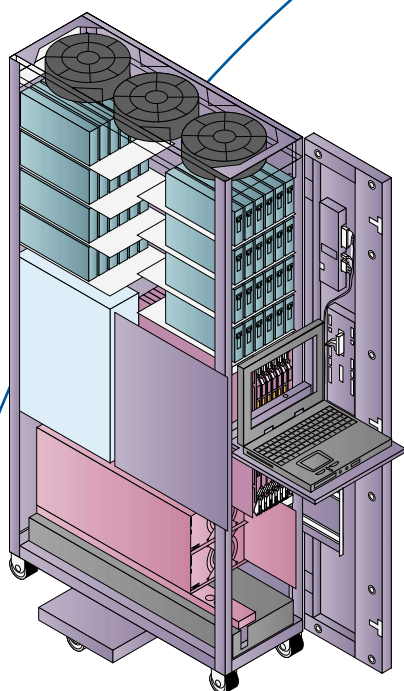
Power Specifications

	North America	International
Input Voltage (VAC)	208/240 VAC L-L nom. (240 VAC is optimal)	220/230/240 VAC L-N nom. (240 VAC is optimal)
Frequency (Hz)	60Hz	50Hz
Circuit Breaker (A), max.	20A	20A
Power Connector	(2) Russellstoll 3720	Country Specific, customer supplied
User Connector	(2) Russellstoll 3913 (female) AC connector - or - (2) Russellstoll 3743 (fixed receptacle) AC connector	Country Specific, customer supplied
Auto-Call Modem Requirements	The Auto-Call modem requires connection to a 110VAC power source at 60MHz through a NEMA 5-15R receptacle. International installations are country-specific.	

Environmental Specifications (operating)

Temperature	50-90° F/10-32° C
Altitude	8,000/2,500
Humidity (non-condensing)	20-80
Raised Floor	Required

*Values represent maximum figures for each model.



EMC²

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Specification Sheet

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