

Symmetrix 3930-18/-36

Open Systems and Mainframe Specifications

Sample Configuration Data

3930-18 Models

Physical Disks	Open Systems Raw Capacity (GB)*	Mirrored Capacity (GB)*		SRDF Capacity (GB)*		Maximum Cache (MB)**
		Open	Mainframe	Open	Mainframe	
64	1,158	579	572	1,158	1,145	16,384
96	1,737	868	859	1,737	1,718	16,384
128	2,316	1,158	1,145	2,316	2,291	16,384
160	2,896	1,448	1,432	2,896	2,864	16,384
192	3,475	1,737	1,718	3,475	3,436	16,384
224	4,054	2,027	2,004	4,054	4,009	16,384
256	4,633	2,316	2,291	4,633	4,582	16,384

3930-36 Models

Physical Disks	Open Systems Raw Capacity (GB)*	Mirrored Capacity (GB)*		SRDF Capacity (GB)*		Maximum Cache (MB)**
		Open	Mainframe	Open	Mainframe	
64	2,316	1,158	1,145	2,316	2,291	16,384
96	3,475	1,737	1,718	3,475	3,436	16,384
128	4,633	2,316	2,291	4,633	4,582	16,384
160	5,792	2,896	2,864	5,792	5,728	16,384
192	6,950	3,475	3,436	6,950	6,873	16,384
224	8,108	4,054	4,009	8,108	8,019	16,384
256	9,267	4,633	4,582	9,267	9,164	16,384

Note: Hyper-Volume Extension can increase the number of logical volumes to 4,096 maximum. Configurations of mixed 18GB and 36GB disks are allowed.

*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

3930 Series	Open Systems		Mainframe	
	Min	Max	Min	Max
Fibre Channel	4	16	-	-
Ultra SCSI	8	32	-	-
FWD SCSI	8	32	-	-
ESCON**	-	-	4	32

Note: Mixed ESCON, FWD SCSI, Ultra SCSI, and Fibre Channel interfaces are supported.

*ESP software is required to run ESCON channels.

Disk Emulation

3930 Series	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**	3380K**	3390-1	3390-2**	3390-3**	3390-9**
3930-18 Models							
Maximum Complete Logical Volumes	8	4	9	18	9	6	2
3930-36 Models							
Maximum Complete Logical Volumes	16	8	18	32	18	12	4

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 32:1.

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

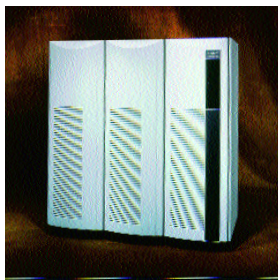
**This emulation mode provides additional space on the physical disk device for use as either a lower than full capacity logical volume for the specified emulation mode, or as a different, smaller model type within the same emulation mode.

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Available Software*

Information Protection	Symmetrix Remote Data Facility (SRDF) EMC TimeFinder Symmetrix Data Migration Services (SDMS)
Information Sharing	Symmetrix Enterprise Storage Platform (ESP) EMC InfoMover
Information Management	Symmetrix Manager EMC PowerPath EMC Volume Logix EMC Data Manager (EDM) FDR Family**

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

**Contact Innovation® Data Processing for information on the FDR family of backup/restore software products.

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. Detailed host and cluster support information can be found at the following URLs: www.emc.com/products/enterprise_storage_systems/open_sys_matrix.htm (host support) and www.emc.com/products/enterprise_storage_systems/clustered_host_matrix.htm (cluster support).

Vendor

Bull®	IBM®	Sequent®	Sun Microsystems®
Compaq®/DEC®	ICL®	Siemens®	Unisys®
Data General®	Intel®-Based Servers	Silicon Graphics®	Windows NT® Servers
Hewlett Packard®	NCR®	Stratus®	

Physical Specifications*

3930 Series	Height** (in/cm)	Width (in/cm)	Depth (in/cm)	Front Service Area (in/cm)	Rear Service Area (in/cm)
	74.9/190.3	68.7/174.5	36.4/92.5	48.0/122.0	36.0/91.5

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

Weight*

Physical Volumes	32	64	96	128	160	192	224	256
Weight (lb/kg)	2,432/1,105	2,531/1,150	2,631/1,196	2,730/1,241	2,829/1,286	2,928/1,331	3,027/1,376	3,127/1,421

Power and Cooling Data*

Physical Volumes	32	64	96	128	160	192	224	256
3930 Series								
Power Consumption (kVA)	3.39	4.29	5.19	6.09	6.99	7.88	8.78	9.68
Heat Dissipation (Btu/hr)	11,567	14,365	17,703	20,772	23,840	26,908	29,976	33,045

Power Specifications

	North America	International
Input Voltage (VAC)	208	Country Specific
Frequency (Hz)	60, three phase, four wire	Country Specific
Circuit Breaker (Amps), max.	50	Country Specific
User Connector	(2)Russellstoll® 9C54U2 flex (2)Russellstoll 9R54U2W rigid	Country Specific
Power Connector	(2)Russellstoll 9P54U2	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)	59–90°F/10–38°C
Altitude (ft/m), max.	8,000/2,500
Humidity (%), non-condensing	20-80
Raised Floor	Required

*Values represent maximum figures for each configuration.



<http://www.raid-advisory.com/emc.html>



The information presented here is summary in nature, subject to change, and intended for general information only. Additional details and specifications concerning the operation and use of EMC equipment and software are available in the applicable technical literature.

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