

Symmetrix 3830-18/-36

Open Systems and Mainframe Specifications

Sample Configuration Data

3830-18 Models

Physical Disks	Open Systems Raw Capacity (GB)*	Mirrored Capacity (GB)*		SRDF Capacity (GB)*		Maximum Cache (MB)**
		Open	Mainframe	Open	Mainframe	
8	144	72	71	144	143	16,384
12	217	108	107	217	214	16,384
16	289	144	143	289	286	16,384
32	579	289	286	579	572	16,384
64	1,158	579	572	1,158	1,145	16,384
96	1,737	868	859	1,737	1,718	16,384

3830-36 Models

Physical Disks	Open Systems Raw Capacity (GB)*	Mirrored Capacity (GB)*		SRDF Capacity (GB)*		Maximum Cache (MB)**
		Open	Mainframe	Open	Mainframe	
8	289	144	143	289	286	16,384
12	434	217	214	434	429	16,384
16	579	289	286	579	572	16,384
32	1,158	579	572	1,158	1,145	16,384
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

Note: Hyper-Volume Extension can increase the number of logical volumes to 2,048 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

3830 Series	Open Systems		Mainframe	
	Min	Max	Min	Max
Fibre Channel	4	12	-	-
Ultra SCSI	8	24	-	-
FWD SCSI	8	24	-	-
ESCON**	-	-	4	24

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

*ESP software is required to run ESCON channels.

Disk Emulation

3830 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**
3830-18 Models							
Maximum Complete Logical Volumes	8	4	9	18	9	6	2
3830-36 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*

3830 Series	Height** (in/cm)	Width (in/cm)	Depth (in/cm)	Front Service Area (in/cm)	Rear Service Area (in/cm)
	73.6/187.0	24.3/61.6	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)	944/429	957/434	969/440	1,019/462	1,118/507	1,217/533

Power and Cooling Data*

Physical Volumes	8	12	16	32	64	96
3830 Series						
Power Consumption (kVA)	1.24	1.35	1.47	1.92	2.82	3.71
Heat Dissipation (Btu/hr)	4,241	4,624	5,008	6,542	9,610	12,679

Power Specifications

	North America	International
Input Voltage (VAC)	208	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)	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.



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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