

Symmetrix 3630-18/-36

Open Systems and Mainframe Specifications

Sample Configuration Data

3630-18 Models

| Physical Disks | Open Systems Raw Capacity (GB)* | Mirrored Capacity (GB)* | | SRDF Capacity (GB)* | | Maximum Cache (MB)** |
|----------------|---------------------------------|-------------------------|-----------|---------------------|-----------|----------------------|
| | | Open | Mainframe | Open | Mainframe | |
| 4 | 72 | 36 | 35 | 72 | 71 | 8,192 |
| 8 | 144 | 72 | 71 | 144 | 143 | 8,192 |
| 12 | 217 | 108 | 107 | 217 | 214 | 8,192 |
| 16 | 289 | 144 | 143 | 289 | 286 | 8,192 |
| 24 | 434 | 217 | 214 | 434 | 429 | 8,192 |
| 32 | 579 | 289 | 286 | 579 | 572 | 8,192 |

3630-36 Models

| Physical Disks | Open Systems Raw Capacity (GB)* | Mirrored Capacity (GB)* | | SRDF Capacity (GB)* | | Maximum Cache (MB)** |
|----------------|---------------------------------|-------------------------|-----------|---------------------|-----------|----------------------|
| | | Open | Mainframe | Open | Mainframe | |
| 4 | 144 | 72 | 71 | 144 | 143 | 8,192 |
| 8 | 289 | 144 | 143 | 289 | 286 | 8,192 |
| 12 | 434 | 217 | 214 | 434 | 429 | 8,192 |
| 16 | 579 | 289 | 286 | 579 | 572 | 8,192 |
| 24 | 868 | 434 | 429 | 868 | 859 | 8,192 |
| 32 | 1,158 | 579 | 572 | 1,158 | 1,145 | 8,192 |

Note: Hyper-Volume Extension can increase the number of logical volumes to 1,024 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

| 3630 Series | Open Systems | | Mainframe | |
|---------------|--------------|-----|-----------|-----|
| | Min | Max | Min | Max |
| Fibre Channel | 4 | 8 | - | - |
| Ultra SCSI | 8 | 16 | - | - |
| FWD SCSI | 8 | 16 | - | - |
| ESCON** | - | - | 4 | 16 |

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

*ESP software is required to run ESCON channels.

Disk Emulation

| 3630 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** |
| 3630-18 Models | | | | | | | |
| Maximum Complete Logical Volumes | 8 | 4 | 9 | 18 | 9 | 6 | 2 |
| 3630-36 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.

EMC Corporation
Hopkinton
Massachusetts
01748-9103

1-508-435-1000

In North America
1-800-424-3622 ext. 362

www.EMC.com



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*

| 3630 Series | Height** (in/cm) | Width (in/cm) | Depth (in/cm) | Front Service Area (in/cm) | Rear Service Area (in/cm) |
|-------------|---------------------|------------------|------------------|-------------------------------|------------------------------|
| | 46.0/116.9 | 21.0/53.3 | 36.0/91.5 | 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 | 16 | 24 | 32 |
|------------------|---------|---------|---------|---------|---------|---------|
| Weight (lb/kg) | 547/249 | 560/255 | 572/260 | 585/266 | 609/277 | 634/288 |

Power and Cooling Data*

| Physical Volumes | 4 | 8 | 12 | 16 | 24 | 32 |
|---------------------------|-------|-------|-------|-------|-------|-------|
| 3630 Series | | | | | | |
| Power Consumption (kVA) | 0.80 | 0.91 | 1.02 | 1.14 | 1.36 | 1.59 |
| Heat Dissipation (Btu/hr) | 2,726 | 3,110 | 3,493 | 3,877 | 4,644 | 5,411 |

Power Specifications

| | North America | International |
|------------------------------|---|------------------|
| Input Voltage (VAC) | 208 | Country Specific |
| Frequency (Hz) | 60, single phase | Country Specific |
| Circuit Breaker (Amps), max. | 20 | Country Specific |
| User Connector | (2)Russellstoll® 3913 flex (2)Russellstoll 3743 rigid | Country Specific |
| Power Connector | (2)Russellstoll 3720 | 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. | |

Note: 3630-18/-36 now comes with two power connectors.

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 | Recommended |

*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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