



For more information visit www.Howard.com or call us at 888.912.3151.



PS3800XV STORAGE ARRAY

Equipped with sixteen 15,000 RPM SAS disk drives, the PS3800XV delivers maximum I/Os per second, providing high performance storage suitable for the intense I/O workloads of enterprise transactional databases.

DATA SERVICES INCLUDE:

- Auto-Replication
- Automatic Load Balancing
- Auto-Snapshot Manager¹
- Auto-Stat Disk Monitoring System
- Volume Consistency Sets
- Multi-Path I/O²
- PS Group Manager
- Pooled and Tiered Storage
- RAID Load Balancing
- Snapshot and Auto-Replication Scheduler
- E-mail Home
- Storage Virtualization
- Volume Cloning
- Volume Management
- Volume Snapshot

TECHNICAL HIGHLIGHTS

Volumes	Up to 1,024
Snapshots	512 per volume /up to 10,000 total
Hosts accessing group	Up to 512
Host interface	Any standards-compliant iSCSI initiator
Controllers	2 SAS
Disk capacity	146 GB*; 15,000 RPM SAS
System capacity	2.3 TB**
Number of drives	16
I/Os per second	60,000
Memory (battery-backed)	2 GB
Gb network interfaces	3
Copper (standard)	
Sustained system bandwidth	300 MBps
Operating systems supported	Windows® 2000, Windows Server 2003, Windows XP, NetWare®, Linux, Solaris™, AIX®, HP-UX, Mac OS® X, VMware® ESX
Upgrade option	Can be online upgraded to PS3900XV
Expansion option	Can be combined with other PS systems in a PS Storage Stack

RAID SUPPORT

Automatic RAID 5, RAID 10 and RAID 50 configuration

RELIABILITY

Redundant, hot-swappable controllers, power supplies/cooling fans, and disks
 Mirrored write-back cache with 72-hour battery backup
 Individual disk drive slot power control

ENCLOSURE MONITORING SYSTEM

Automatic spare configuration and utilization

SMART

Automatic bad block replacement
 Auto-Stat Disk Monitoring System (ADMS) to monitor health of data on disk drives

MANAGEMENT INTERFACES

SNMP, telnet, SSH, HTTP, Web (SSL), host scripting
 Serial console
 Multi-administrator support

SECURITY

CHAP authentication
 Access control for iSCSI and management interfaces

NOTIFICATION METHODS

SNMP traps, e-mail, syslog



PS STORAGE STACK



PS Series storage arrays are stackable as multi-array system configurations for customized performance and capacity

POWER

AC voltage	100-240 VAC ±10% single phase
Frequency	47-63 Hz
Power factor	.98 (minimum)
Power consumption	530 VA (maximum)
Heat dissipation	1,700 BTU per hour (maximum)
Power supplies	Dual 450 W supplies


ENVIRONMENTAL

Temperature range	5 to 35 °C / 41 to 95 °F
Storage temperature	-30 to 60 °C / -22 to 140 °F
Altitude	-70 to 3,048 m operational / -305 to 12,192 m non-operational
Relative humidity	20 to 80% non-condensing operational / 5 to 95% non-condensing non-operational
Shock	30 G for 2 ms operational / 30 g 10 ms 1/2 sin non-operational
Vibration	.1 G @ 10 to 100 Hz operational / Random 1.04 grms 2-200 Hz non-operational
Acoustics	Sound Power Operating: <5.8 db LpA @ 20 °C

PHYSICAL

Height	130 mm / 5.12 in / 3 EIA units
Width	482.6 mm / 19.0 in / 1EC Rack Compliant
Depth	551 mm / 21.7 in
Weight	35 kg / 77.6 lb (maximum configuration)

AGENCY APPROVALS

Safety standards	UL 60950, CSA 60950 EN 60950 (Europe), CB Scheme
Electromagnetic Compatibility (EMC)	EN 55022 Class A, CE Mark, EN 55024 Immunity, ITE, FCC Class A, VCCI Class A (Japan) AN/NZS 3548 Class A (Australia/New Zealand)
C-Tick Compliance	 N 4292
BSMI	Taiwan

LIMITED WARRANTY

2 years telephone support: business hours 5x9
1 year software maintenance and updates
2 years hardware (return to factory, first 90 days advance replacement, 1 year battery, 5 years on disks)

SUPPORT PROGRAMS

Complete Care	24-hour priority online/telephone access, software maintenance and updates, next business day advance hardware replacement
Complete Care Plus	24-hour priority online/telephone access, software maintenance and updates, four hour onsite advance hardware replacement

¹ 1 GB = 1,000,000,000 bytes, useable space may be less² Qualified for Microsoft Windows Server 2003¹ 1 TB = 1,000,000,000,000 bytes, useable space may be less² Qualified for Microsoft Windows Server 2000 and 2003, Linux and Sun Solaris Operating Systems

9 Townsend West, Nashua, NH 03063

Tel 603.579.9762 / Fax 603.579.6910 / www.equallogic.com