

PROMISE Vess[™] R2000

PROMISE Vess R2000 Unified Storage Solution for SMBs



- Dynamic solution optimized for video surveillance
- Unified storage streamlines administration & adds flexibility
- Designed to meet the growing challenge of unstructured data
- Cutting edge redundant, high capacity archiving solution
- Support for on demand expansion, ideal for cloud data centers
- Fibre Channel 8Gbps and iSCSI 1Gbps host connect ports
- High availability dual controller design
- Supports 6Gbps & 3Gbps SAS & SATA drives simultaneously
- Scale up to 112 hard disk drives via Vess J2000 series expansion units

The Ultimate in Value, Flexibility, and Reliability

The Vess R2000's brilliant design consolidates both block and file storage onto a single platform¹, providing SMBs a cost-effective way to meet performance goals while simplifying administration and adding flexibility. The high availability activeactive Vess R2000 is designed for data-intensive industries, including midsize to large scale surveillance installations or cloud data centers where downtime is unacceptable and where large external storage capacity, support for on-demand expansion, long retention periods, and reliable high bandwidth throughput are a must.

Optimized for Your Business Needs

The Vess R2000 conveniently allows users to select an operation mode optimized for video surveillance or for generic IT environments, delivering customized performance and expandable capacity for multiple storage requirements, including unstructured data, archiving and cloud data centers. With innovative features like Perfect Rebuild, which can reduce the time required to rebuild an array by more than 400%, the Vess R2000 delivers the performance and reliability you demand for your application.

Simplifying Management and Support

Simplicity and ease of use are absolutely crucial for SMBs with limited IT resources. The Vess R2000 is designed specifically with SMBs in mind as it features One Plug Auto Service (OPAS) to reduce maintenance complexity and streamline an easier tech support workflow. Simply plug in a USB drive and the user can retrieve information about the system for tech support, upgrade firmware, reset passwords and much more.

Going the Extra Mile to Protect Your Data

The Vess R2000's new CacheGuard Data Protection features, HDD Cache Backup and Advanced Battery Flash Backup, go that extra mile to ensure your data is safe in case of power loss. Delivering protection of HDD cache data and RAID controller write cache content beyond the standard 72 hour window, you can rest assured knowing your data is protected even when disaster strikes.



System and Controller Features

Form Factor	3U	3U	3U
Drive Support	16 Drives [3.5"] SAS/SATA ² [6Gb/s or 3Gb/s], NCQ, TCQ	16 Drives [3.5"]	16 Drives [3.5"]
# Controllers	Single/Dual [64bit 6-core @ 1.1GHz]		
Host Connectivity per Ctrl.	4x 1Gb iSCSI	2x 8Gb FC	2x 10Gb FC
Scalability	Up to 112 drives via cascading Vess J2000 series	4x 1Gb iSCSI	4x 1Gb iSCSI
Data Cache	2GB standard per controller [max. 16GB]		

Operational Features

RAID Levels	0, 1, 1E, 3, 5, 6, 10 [0+1], 30, 50, 60		
Supported OS	Windows 2003, Vista, 7, 2008, 2012 ³ RedHat Linux, SuSE Linux, Ubuntu, CentOS, VMWare ESXi 5.x, Citrix XenServer ⁷		
Data Protection Features	<ul style="list-style-type: none"> • Predictive Data Migration [PDM] • Support Volume Copy • Zero Penalty Cache Mirroring • PerfectRebuild™ - Reduced Rebuild Time 	<ul style="list-style-type: none"> • Hard Disk Cache Protection⁴ • Asymmetric LUN Unit Access [ALUA] • PerfectFlash™ -Non-Disruptive Image Update • Advanced Battery Flash backup 	
Green Features	<ul style="list-style-type: none"> • Compact and Lightweight System Design • Efficient 80PLUS Certified Power Supplies • Embedded Power Consumption Module 	<ul style="list-style-type: none"> • Full Levels of Intelligent Power Management MAID 2.0 • Energy Savings on Power Scheduling 	

System Information

AC Input	100 ~ 240 VAC, 60 ~ 50Hz
Current [Maximum]	4A [100V]; 2A [240V]
Power Supply	Three redundant 250W [Up to Four] 90-264V full-ranging w/PFC, Hot swappable N+1 Design Hot swappable redundant design with battery backup module
FAN	Hot swappable redundant design with battery backup module
Temperature	5° ~ 40°C [-40° ~ 60°C non operational]
Relative Humidity	10% to 80% non-condensing
Dimensions [H x W x D]	131 x 447 x 507 mm 5.1 x 17.6 x 20 in
Weight	20.1 kg [44.3 lbs] w/o drives 31.3 kg [69 lbs] w/ drives

Warranty and Support

Warranty	3 years limited warranty ⁶
Supported Hardware Options	Flash Module, 8Gb SFP Optical Transceiver, 10GBase SFP+ Optical Transceiver, SAS Cable, 3G SATA AA-MuxAdapter, 6G SATA BlackJack Adapter

¹10G iSCSI model available in Q3, 2013

²Additional AA-Mux adapter is required when use with SATA 3G drive, while SATA 6G drive requires BlackJack adapter

³Microsoft® WHQL for Windows Server 2003, 2008 and 2012

⁴Feature available in the Service Release 3

⁵Operational Temperature between 5° ~ 35°C if BBU installed or use 15K-RPM SAS HDDs

⁶BBU is covered by one year limited warranty

⁷VMWare ESXi 5.x and Citrix XenServer certifications to be ready in Q2, 2013

