

# PROMISE Vess™ R2000

PROMISE Vess R2000 Unified Storage Solution for SMBs



Golden Award 2013



- 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, iSCSI 1Gbps & 10Gbps 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 platform<sup>1</sup>, providing SMBs a cost-effective way to meet performance goals while simplifying administration and adding flexibility. The high availability active-active 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.

<sup>1</sup> The file-based NAS support to be available in SR2



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Unified storage that is everything it should be

| System Models                         | Vess R2600iS/R2600iD   | Vess R2600fiS/R2600fiD   | Vess R2600tiS/R2600tiD <sup>1</sup> |
|---------------------------------------|--|--|-------------------------------------|
| <b>System and Controller Features</b> |  |  |                                     |
| Form Factor                           | 3U   | 3U   | 3U                                  |
| Drive Support                         | 16 Drives (3.5")<br>SAS/SATA <sup>2</sup> (6Gb/s or 3Gb/s), NCQ, TCQ   | 16 Drives (3.5")   | 16 Drives (3.5")                    |
| # Controllers/CPU                     | Single/Dual (64bit 6-core @ 1.1GHz)  |  |                                     |
| Host Connectivity per Ctrl.           | 4x 1Gb iSCSI   | 2x 8Gb FC<br>4x 1Gb iSCSI  | 2x 10Gb iSCSI<br>4x 1Gb iSCSI       |
| Scalability                           | Up to 112 drives via cascading Vess J2000 series   |  |                                     |
| Data Cache                            | 2GB standard per controller (max. 16GB)  |  |                                     |
| <b>Operational Features</b>           |  |  |                                     |
| RAID Levels                           | 0, 1, 1E, 3, 5, 6, 10 (0+1), 30, 50, 60  |  |                                     |
| Supported OS                          | Windows 2003, Vista, 7, 2008, 2012 <sup>3</sup><br>RedHat Linux, SuSE Linux, Ubuntu, CentOS, VMWare ESXi 5.x, Citrix XenServer <sup>7</sup>  |  |                                     |
| Data Protection Features              | <ul style="list-style-type: none"> <li>Predictive Data Migration (PDM)</li> <li>Support Volume Copy</li> <li>Zero Penalty Cache Mirroring</li> <li>PerfectRebuild™ - Reduced Rebuild Time</li> </ul> | <ul style="list-style-type: none"> <li>Hard Disk Cache Protection<sup>4</sup></li> <li>Asymmetric LUN Unit Access (ALUA)</li> <li>PerfectFlash™ -Non-Disruptive Image Update</li> <li>Advanced Battery Flash backup</li> </ul> |                                     |
| Green Features                        | <ul style="list-style-type: none"> <li>Compact and Lightweight System Design</li> <li>Efficient 80PLUS Certified Power Supplies</li> <li>Embedded Power Consumption Module</li> </ul>                | <ul style="list-style-type: none"> <li>Full Levels of Intelligent Power Management MAID 2.0</li> <li>Energy Savings on Power Scheduling</li> </ul>   |                                     |
| <b>System Information</b>             |  |  |                                     |
| AC Input                              | 100 ~ 240 VAC, 60 ~ 50Hz   |  |                                     |
| Current (Maximum)                     | 4A (100V); 2A (240V)   |  |                                     |
| Power Supply                          | Three redundant 250W (Up to Four)<br>90-264V full-ranging w/PFC, Hot swappable N+1 Design  |  |                                     |
| FAN                                   | Hot swappable redundant design with battery backup module  |  |                                     |
| Temperature                           | 5° ~ 40°C <sup>5</sup> (-40° ~ 60°C non operational)   |  |                                     |
| Relative Humidity                     | 10% to 80% non-condensing  |  |                                     |
| Dimensions (H x W x D)                | 131 x 447 x 507 mm<br>5.1 x 17.6 x 20 in   |  |                                     |
| Weight                                | 20.1 kg (44.3 lbs) w/o drives<br>31.3 kg (69 lbs) w/ drives  |  |                                     |
| EMC/ Safety                           | CE, FCC Class A, VCCI, BSMI, CB, KCC, C--Tick, UL/cUL  |  |                                     |
| <b>Warranty and Support</b>           |  |  |                                     |
| Warranty                              | 3 years limited warranty <sup>6</sup>  |  |                                     |
| Supported Hardware Options            | Flash Module, 8Gb SFP Optical Transceiver, SAS Cable, 3G SATA AA-Mux Adapter, 6G SAS-to-SATA Interposer Adapter  |  |                                     |

<sup>1</sup>10G iSCSI model available in Q3, 2013

<sup>2</sup>Additional AA-Mux adapter is required when use with SATA 3G drive, while SATA 6G drive requires 6G SAS-to-SATA Interposer adapter

<sup>3</sup>Microsoft® WHQL for Windows Server 2003, 2008 and 2012

<sup>4</sup>Feature available in the Service Release 3

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

<sup>6</sup>BBU is covered by one year limited warranty

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