

RELDATA 9240i

Unified Storage System

The demand for storage capacity continues to surge fueled by the growth of the Internet and a rising demand for online access to data. The ability to move and access data has become a mission-critical capability for every enterprise, and there is great pressure both to improve data management and reduce total cost of ownership (TCO).

RELDATA is responding with its 9240i Unified Storage System that adds three significant capabilities to enterprise network architectures. First, companies are able to architect shared storage pools for on-demand enterprise-wide IP SAN and NAS that can scale seamlessly. Second, they are able to greatly reduce backup and data migration times by leveraging non-disruptive, incremental remote data replication. Third, they enjoy far greater manageability of data because they will have leading edge storage automation control and management of their databases from a single central point. The combination of these three things—scalability, much faster backup and data migration, and easy manageability—inevitably reduces the TCO of data storage in medium-sized and large organizations.

Enterprise-Class iSCSI SAN, NAS and WAN Replication Services On-Demand

RELDATA's 9240i Unified Storage System delivers integrated iSCSI SAN, NAS and WAN replication functions on a single virtualized platform that delivers best-in-class performance. The system is easy to implement, operate, and manage, yet delivers enterprise-class functionality. Customers can independently scale disk storage capacity, SAN/NAS/WAN replication storage services, and network performance without application disruption. This "pay-as-you-grow" design eliminates the need for forklift box upgrades – and the downtime it causes – and liberates customers from vendor lock-in and the associated predatory pricing for additional disk capacity.

The 9240i represents a purpose-built high performance storage controller, RELvos™ Virtualization Operating System and integrated Serial Attached SCSI (SAS) disk storage. Storage can be expanded by adding RELDATA disk arrays. The 9240i is available for 1 GbE and/or 10 GbE infrastructures. With the 9240i, IT managers are able to set up iSCSI SANs that can scale to multiple Petabytes of capacity to support hundreds of servers with performance rivaling FC SANs, giving them plenty of headroom for future storage growth.

Realizing Information-Centric Storage Infrastructures

RELDATA's vision is an information-centric model of computing that makes information always available; completely shareable by heterogeneous computers from a single data image, anywhere in the world, at any time, with consistent fast access; complete protection from loss; and highly secure, easy, cost-effective centralized management. RELDATA's 9240i Unified Storage System is converging NAS and SAN architectures on block-data level, overcoming the typical limitations of separated architectures. SANs are able to operate over long distances and allow heterogeneous information sharing, and NAS provides high storage utilization and an easy centralized management – all together protected by unified disaster recovery services.

Invest in RELDATA and Dramatically Simplify Your Storage Operations!

RELDATA
REAL UNIFIED STORAGE



TESTED PERFORMANCE

IOPS – 108,000+ per 9240i
Throughput – 820MB/s per 9240i

- High Speed Virtualized iSCSI SAN Storage System
- Scalable Enterprise NAS
- Block-level Global Data Replication
- High Performance 10GbE
- High-availability Clustering and Failover
- Highly Scalable SAS Storage
- Simple, Easy-to-Use Storage On-Demand
- Simplified Management of Dynamically changing environments
- Quick and Easy Set-up with Adaptive Storage Wizard
- Open FC, SAS, SCSI and iSCSI Storage Connectivity

PRODUCT HIGHLIGHTS

High Speed iSCSI SAN Storage License	<ul style="list-style-type: none"> Powered by the leading-edge 64 bit RELDATA Virtualization Operating System RELvos 2 Near wire-speed I/O processing of iSCSI data Certified interoperability with industry's leading iSCSI initiators and host bus adapters (HBAs) Provision of seamlessly expandable high-performance iSCSI targets up to 9 Exabytes per LUN Boot-over-IP SAN enables diskless servers and workstations Optional Non-Disruptive block data migration 										
Enterprise-Wide Scalable NAS license	<ul style="list-style-type: none"> Configure and present highly scalable CIFS and NFS shares up to 9 Exabytes per share Seamless resizing of mounted, on-line file systems Quota management for user groups and individual users Integrated with Microsoft® Active Directory, Microsoft® DFS and NIS/Yellow Pages Support for Microsoft® Windows® and Unix (Posix) ACLs Simultaneous cross-protocol access and file locking by Windows®, Linux or Unix clients File-based replication of NAS content Optional share-level data migration 										
Data Replication License for Local & WAN	<ul style="list-style-type: none"> Writable point-in-time snapshots of volumes Rapid recovery by mounting snapshots as iSCSI targets or file systems Block level incremental asynchronous replication over the WAN Block level synchronous replication (remote volume mirroring) over fast LAN links Block level rollback to any snapshot Remote Mirroring 										
High Availability Storage	<ul style="list-style-type: none"> Rapid appliance replacement with configuration data on USB thumb drive Fully redundant and hot-swappable power supplies SNMP/SMTP failure notification services Local Mirroring Active/active failover clustering with storage multipathing 										
Simplified Management Model	<ul style="list-style-type: none"> Powerful intelligent Adaptive Storage Wizards for rapid set up, Virtual Volumes, SAN, NAS, WAN Replication configuration Easy-to-use, intuitive GUI provides centralized control of all RELDATA services Front panel TFT screen with a micro GUI enables rapid set-up Online firmware update service Optional customizable RELbot task automation 										
Multiple IO Interfaces	<ul style="list-style-type: none"> 6 x 1 GbE ports (auto-negotiating), 802.3ad support for bandwidth aggregation (LACP-enabled) Up to 4 available ports to add for any combination of the following: <ul style="list-style-type: none"> Optional dual port 10G Ethernet interface Optional dual port 4Gb Fibre Channel interface Optional dual port 4x3Gb/s SAS interface 										
Mixed SAS Storage Within Each Enclosure	<table border="0"> <tr> <td>• Drive Options:</td> <td>SAS: 15k – 147/300/450 GB; 10k – 400GB; 7.2k – 1000GB</td> </tr> <tr> <td>• RAID Controller</td> <td>Dual 4 x 3Gb/s SAS</td> </tr> <tr> <td>• Hardware RAID Levels Supported</td> <td>0, 1, 10, 5, 50, 6</td> </tr> <tr> <td>• NVRAM Cache</td> <td>512MB</td> </tr> <tr> <td>• Expandability</td> <td>Up to 9 additional 12-unit shelves with mix of SAS drives</td> </tr> </table>	• Drive Options:	SAS: 15k – 147/300/450 GB; 10k – 400GB; 7.2k – 1000GB	• RAID Controller	Dual 4 x 3Gb/s SAS	• Hardware RAID Levels Supported	0, 1, 10, 5, 50, 6	• NVRAM Cache	512MB	• Expandability	Up to 9 additional 12-unit shelves with mix of SAS drives
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Open Storage Consolidation	<ul style="list-style-type: none"> Proven and certified connectivity and interoperability with industry's leading FC, SCSI and iSCSI connected storage devices, including FC switches, disk arrays, and tape libraries Software RAID 1, 4, 5 and 6 with striping of LUNs and Volumes for RAID 0, 10, 50, 60 Storage consolidation achieved by virtualizing storage into seamless volume pool 										
Standards & Regulations	<table border="0"> <tr> <td>• Safety and Compatibility</td> <td>UL 60950</td> </tr> <tr> <td>• FCC Class A</td> <td></td> </tr> <tr> <td>• WEEE and RoHS Compliant</td> <td></td> </tr> <tr> <td>• CE</td> <td></td> </tr> <tr> <td>• TUV</td> <td></td> </tr> </table>	• Safety and Compatibility	UL 60950	• FCC Class A		• WEEE and RoHS Compliant		• CE		• TUV	
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RELDATA Inc.
Email: sales@reldata.com
Phone: +1 (973) 644 2770
Toll-free 1-888-RD-IP-SAN
(1-888-734-7726)

www.reldata.com

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