

SnapServer XSR Series

eXpand and Sync Rack-mount NAS

Highlights

- Dynamic RAID
- Dynamic Volumes
- Microsoft Active Directory and UNIX NIS Integration
- Replication with Snap EDR
- Multi-system Management with SSM
- BitTorrent Sync™
- High Performance Snapshots
- iSCSI feature for block level access
- Expandable with optional expansion chassis
- Backup to RDX QuikStor

SnapServer XSR is the first data storage system that integrates the revolutionary Dynamic-RAID, a standards-based technology that gives you the ability to automatically expand storage pools and storage volumes independently, optimize your data protection levels and increase capacity with zero downtime. DynamicRAID provides the flexibility you need to manage your storage infrastructure without manual intervention, so that your business can grow without interruption. SnapServer XSR is the simplest unified NAS and iSCSI SAN storage for modern business applications — from virtualized server and Microsoft Exchange environments to backup and storage consolidation. Built on the proven GuardianOS platform with integrated features like snapshots and replication, SnapServer XSR lets any business run its storage like an enterprise, at one-tenth the cost. It's storage as it should be.

Capabilities



DynamicRAID – Automatic Capacity Growth with Thin Provisioning

With DynamicRAID, SnapServer XSR Series RAID arrays are optimized and maintained automatically as drives are added, giving you the best redundancy and capacities available in the market. Easily add drives of larger capacities and integrate them within existing storage pools without sacrificing valuable new space. The DynamicRAID features apply equally to both file sharing and iSCSI volumes created on the SnapServer, making it ideal for both file level and block level access. Dynamic Volumes improve storage utilization efficiency by making unallocated space available on demand for other applications. Volumes can be resized dynamically at any time, or set without limits. Lower your cost overhead by distributing all volumes across the available storage pool and adapt quickly to changing needs of your storage environment.



Unified Storage – Freedom of Choice

Have storage your way with the SnapServer XSR Series by not limiting yourself to individual storage protocols. Connect to your SnapServer with any client type and share files across Windows, Linux, UNIX and Macintosh platforms. Along with file services, the SnapServer iSCSI feature enables you to easily consolidate your block level storage across multiple servers in localized, distributed and virtualized environments. Store both block and file data concurrently on the SnapServer and manage under a single, flexible interface. Simplify your IT infrastructure by consolidating your storage into a single SnapServer to handle all of your business storage requirements.



Expansion – To 500 Terabytes and Beyond

SnapServer XSR is the only rack-mount NAS unit in its class that expands. Start with as few as two hard drives and expand as your business grows by adding additional drives. Expand beyond the SnapServer NAS systems with the SnapExpansion XSR chassis; a serial attached SCSI expansion chassis that can add additional drive capacity to keep up with the most dynamic storage environments. Pay as you grow without buying more storage than you need at any given time with the SnapServer XSR.

SnapServer XSR Series

Capabilities



BitTorrent Sync™ – Secure, Unlimited File-Syncing

It's time to get rid of your expensive cloud storage provider. BitTorrent Sync™ is included on the SnapServer XSR Series NAS. Automatically sync files between directories on geographically distributed SnapServer systems. Access those files with any BitTorrent Sync client, server or mobile application. There are no limits on file sizes or file transfers so you can build your own high performance private cloud that is accessible from anywhere. Why rely on a 3rd party cloud to host your data when you can build your own cloud between your devices. With features such as encryption and incremental peer-to-peer file transfers, your data stays yours and all of your syncing is fast. By simply exchanging secret keys or scanning QR codes your devices will sync automatically; and syncing performance improves as more devices are added.



RDX Integration – Rugged, Reliable Disk-to-disk Backup

SnapServer administrators can take advantage of Overland Storage RDX direct to disc backup. Plug an RDX QuikStor device into the SnapServer USB ports and selectively copy data from disk-to-RDX. Utilize RDX media as a form of backup and offsite disaster recovery. Copy data and remove for remote archiving, or as an easy way to move data between devices. Fully integrated into GuardianOS, administrators can format attached RDX media directly with XFS or NTFS options, to optimize for compatibility and file restores. RDX technology provides enterprise performance and fast access, with transfer rates of up to 650GB/hr. and capacities up to 2TB per cartridge.



High Performance Snapshots – Up to 3X Faster Write Performance

A snapshot is a read-only, point-in-time virtual copy of a file system or volume; however, snapshots differ in design and implementation, which can have an impact on capacity utilization, performance, and restoration capabilities. The new SnapServer snapshots are fully integrated with the GuardianOS file-system, which creates improved capacity utilization and more efficient snapshot updating. Upon activation of snapshots, administrators receive all the benefits of data-state protection without significantly impacting read or write performance.



Advanced Security – Intelligence Matters

The SnapServer XSR Series is powered by the industry proven SnapServer GuardianOS®, with cross-platform user access and built in advanced security. The SnapServer can provide local security for small infrastructures or join larger networks that include complex security implementations. In a Windows environment, the SnapServer can join an Active Directory Domain and automatically stay synchronized with the full set of 30 distinct AD permission attributes. For UNIX and Linux security, the SnapServer GuardianOS supports LDAP or Network Information Services to integrate within your existing NIS user and group database. Finally, for mixed environments, the SnapServer allows you to maintain consistent permissions for users with multiple system types with the Windows-only Tree and Windows-to-UNIX ID Mapping. With the Home Directories feature, the SnapServer can automatically create secure folders for individual user logging in. The SnapServer XSR Series will fit into any environment and constantly adapt to complex and changing security requirements.



Snap Enterprise Data Replicator– Efficient Replication for Disaster Recovery

Traditional backup cannot always protect against disaster; ideally data must be moved off-site, and must be instantly available to any global access point. Snap Enterprise Data Replicator (Snap EDR) is a high performance data replication solution with the industry's most comprehensive set of data management and security-capable disaster recovery tools. With flexible data movement options, Snap EDR can replicate data in small offices or large distributed environments. Send files between two SnapServers with the simple replication tool; aggregate files from multiple servers at remote locations back to a corporate datacenter; or distribute files from headquarters to field offices all over the world. With tools such as byte-level differencing, bandwidth throttling, compression, and encryption, Snap EDR will automate your data protection efficiently and securely, and make sure your data is readily available when you need it most.

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Features

SnapServer XSR 40



SnapServer XSR 120



Best Fit For	Workgroups, departments or remote offices requiring up to 240TB of storage	Large businesses with higher performance needs and high scalability requirements
Concurrent Users	<100	100-500
Performance	40MB/s	350MB/s
System Scalability	Up to 240TB with three SnapExpansion Chassis	Up to 576TB with seven SnapExpansion Chassis
Replication	Included	Included
Power Supplies	Single	Dual
Network Connectivity	2 X GbE	2 X GbE Included (Up to 6GbE)
Drives Supported	Enterprise Class SATA-II	Enterprise Class SATA-II, 6Gb SAS, or SSD
RAID Level Supported	Traditional RAID – 0,1,5,10,6 Dynamic RAID – Single or Dual Parity	Traditional RAID – 0,1,5,10,6 Dynamic RAID – Single or Dual Parity
Remote Management	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
iSCSI Support	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
High Performance Snapshots	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Form Factor	1U 4-drive rack-mount	2U 12-drive rack-mount

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