

# R Series

## Replication And Snapshots



### Feature Rich, Multi-Purpose Solution

The R Series is a feature rich, multipurpose device, configurable for use as an IP SAN, a DFS NAS, an NFS mount point and D2D2T backup – any or all - in the same slim appliance.

The iSCSI disk virtualization feature presents block level disk space to a variety of Windows, Unix, and Linux operating systems across any standard Ethernet network. Snapshots are Exchange and SQL Server application aware for roll back protection of critical files and databases. Network computers realize all the benefits and redundancy of RAID storage, without the cost of installing disk arrays on every server.

The DFS NAS capability delivers powerful replication features. Tightly integrated with Windows Active Directory, the miSAN™ R Series supports DFS Namespaces for higher availability of data as well as load sharing. The DFS Replication feature uses remote differential compression to replicate only changes to files, making it possible to maintain replicas of important files over slower WAN network connections. Two miSAN™ units can be placed at completely remote locations to maintain full duplication of files for high availability requirements.

The miSAN™ R Series is also available with an integrated tape drive to support disk-disk-tape backup of its own storage space, all within the same 2U enclosure. With the ARCserve option, the miSAN™ R Series supports backups for a wide array of applications, including Exchange and SQL Server, as well as bare metal disaster recovery.

**iSCSI Disk**

**Exchange, SQL And  
File Snapshots**

**DFS NAS**

**LAN / WAN Replication**

**Optional Easy Swap Tape**

**SATA II Backplane**

**SCSI Ports For Externally  
Attached Tape Libraries**

**CYBERNETICS**

**NEW!**

# miSAN™ R Series

## Multi-Purpose Solution



	<b>T12</b>	<b>T9</b>	<b>T6</b>	<b>T4</b>	<b>T2</b>	<b>T1</b>
<b>Raw Capacity</b>	12 TB	9 TB	6 TB	4 TB	2 TB	1 TB
<b>RAID 5 + Hot Spare Capacity</b>	10 TB	7.5 TB	4.5 TB	3 TB	1.5 TB	500 GB
<b>Disk Drive bays</b>	12	12	8	8	8	8
<b>Tape Backup</b>	Supports Externally Attached SCSI Tape Drives And Libraries					
<b>Transfer Rate</b>	200 MB/s					
<b>Disk Drives</b>	3.0 gb/s Serial ATA II with NCQ and SMART					
<b>RAID Levels</b>	0, 1, 10, 5, 50 + Hot Spare					
<b>Hot Swap And Redundant</b>	Power Supplies, Disk Drives					
<b>Power Supply</b>	650 watt, 2 + 1	650 watt, 2 + 1	Dual, 460w	Dual, 460w	Dual, 460w	Dual, 460w
<b>Cache</b>	2 GB					
<b>System Type</b>	3U Rackmount	3U Rackmount	2U Rackmount	2U Rackmount	2U Rackmount	2U Rackmount
<b>SCSI Interface</b>	Two LVD SCSI Ports					
<b>Recovery Drives</b>	CD/DVD, Floppy/DVD, Floppy					
<b>Network Interface</b>	4 GbE, 1 mgt.	4 GbE, 1 mgt.	3 GbE	3 GbE	3 GbE	3 GbE
<b>Electrical</b>	252 watts average, 100-240 VAC					



## miSAN™ R Series With Integrated Tape

	<b>T4.5/AIT-5</b>	<b>T4.5/LTO-3</b>	<b>T3/AIT-5</b>	<b>T3/AIT-3</b>	<b>T1.5/AIT-5</b>	<b>T1.5/AIT-3</b>
<b>Raw Disk Capacity</b>	4.5 TB	4.5 TB	3 TB	3 TB	1.5 TB	1.5 TB
<b>RAID 5 + Hot Spare Capacity</b>	3 TB	3 TB	2 TB	2 TB	1 TB	1 TB
<b>Integral Tape Formats</b>	AIT-5 (Easy Swap)	LTO-3	AIT-5 (Easy Swap)	AIT-3 (Easy Swap)	AIT-5 (Easy Swap)	AIT-3 (Easy Swap)
<b>Integral Tape Capacity</b>	400 GB - 800 GB	400 GB - 800 GB	400 GB - 800 GB	100 GB - 200 GB	400 GB - 800 GB	100 GB - 200 GB

### Environmental

<b>Maximum Ambient Temperature</b>	< +30° C ( < +86° F )
<b>Operating Temperature</b>	+5° C to +55° C ( +41° F to +158° F )
<b>Non-Operating Temperature</b>	-40° C to +70° C ( -40° F to +158° F )
<b>Operating Shock</b>	10 Gs
<b>Non-Operating Shock</b>	75 Gs
<b>Altitude</b>	10,000 feet

### Plug Compatible With:

AIX	Mac OS	Tru64
HP-UX	Netware	VMS
IRIX	OS/400	Windows
Linux	Solaris	and More