

# Hybrid NXRZ-XL SCSI Drive

## Drive Mechanism

Mechanical hard drive with integrated 4GB Solid State NAND

## Ultra SCSI Interface

50-pin Ultra SCSI  
68-pin Ultra SCSI 160  
80-pin Ultra SCSI 320

## Physical Capacities

100 MB to 500 GB

## Compatibility

Cross-platform device, including:  
OS: OpenVMS\*, AIX, Sun, Windows  
HW: VAX, Alpha, HP, IBM, Sun

## Dimensions

L:14.6 cm, W:10.1 cm, H:2.5 cm

## Maximum Shock

Operating: 350 Gs for 2ms  
Nonoperating: 350 Gs for 2ms

## Ambient Temperature

Operating: 0° - 60°C  
Non operating: -40° - 70°C

## Warranty

3 year warranty  
Return to factory, parts and labor  
Extendable to 10 years total

The Hybrid NXRZ-XL SCSI Drive relies on a cutting-edge hybrid of both mechanical hard disk mechanisms AND solid state Flash chips.



## Solid State Drive Speed without the SSD Cost

The NXRZ-XL drive uses an advanced Adaptive Memory algorithm to achieve near-SSD speeds without the high cost of a pure FLASH solution. The algorithm uses selective caching to move data into the integrated FLASH drive in anticipation of second and third access. The result is 90% speed improvement over the standard NXRZ while retaining the large mechanical drive and the low cost of a standard mechanical drive.

## Designed to Fit YOUR Form and Function

Out of the box, the NXRZ-XL SCSI Drive supports three SCSI interfaces: 50-pin, 68-pin, and 80-pin Ultra SCSI interfaces. However, we can fit the drive with any SCSI I, II, or III connector. In addition, we can provide a bare drive, or build it with an enclosure of your specification. We customize accordingly, whether you run VAX, AlphaServer, Integrity, IBM, SUN, or X86 servers.

## Configured for Maximum Compatibility

In addition to being compatible with any current SCSI-based system that supports SCSI I, II, III, and Ultra SCSI, the provides extraordinary, on-firmware support for legacy End of Life (EOL) systems. For example, we support DEC VAX servers running versions of OpenVMS as early as 5.5-2H4. Furthermore, we can configure the formatted size of the drive to fit the maximum addressable drive capacity supported by your operating system.

## Built to Extend the Life of Your Hardware Investment

The NXRZ drive series is at the forefront of our core mission: to extend and maximize the performance of your legacy systems. The NXRZ-XL SCSI Drive relies on state-of-the-art, 5 volt technology that consumes far less energy than ageing 12 volt drives. With the proper SCSI controllers and SCSI interface, NXRZ drives can achieve over 240% better data throughput than the original legacy drives.

\* The Standard NXRZ SCSI Drive is compatible with OpenVMS 5.5-2H4 and up.

## Real-World Performance

	DEC 7200 RPM	DEC 10k RPM	NXRZ	NXRZ-XL
Backup 8 GB File in OpenVMS	1.2 Hours	0.8 Hours	0.38 Hours	0.35 Hours
% Faster than DEC 7200 HD	0%	+50%	+213%	+243%

	2-Disk NXRZ SW RAID	NXRZ-XL
Windows Server 2008 1st boot time	25.9	33.2
Windows Server 2008 2nd boot time	26.1	21.9
Windows Server 2008 3rd boot time	25.7	18.6

## Interface

	Ultra SCSI	Ultra SCSI 160	Ultra SCSI 320
Max Data Transfer	20 MB/s	160 MB/s	320 MB/s
Connector Type	50-pin	68-pin	80-pin SCA2
Built-in Flash ROM (for easy upgrade)	Yes	Yes	Yes
Selectable SCSI IDs	0-7	0-15	0-15

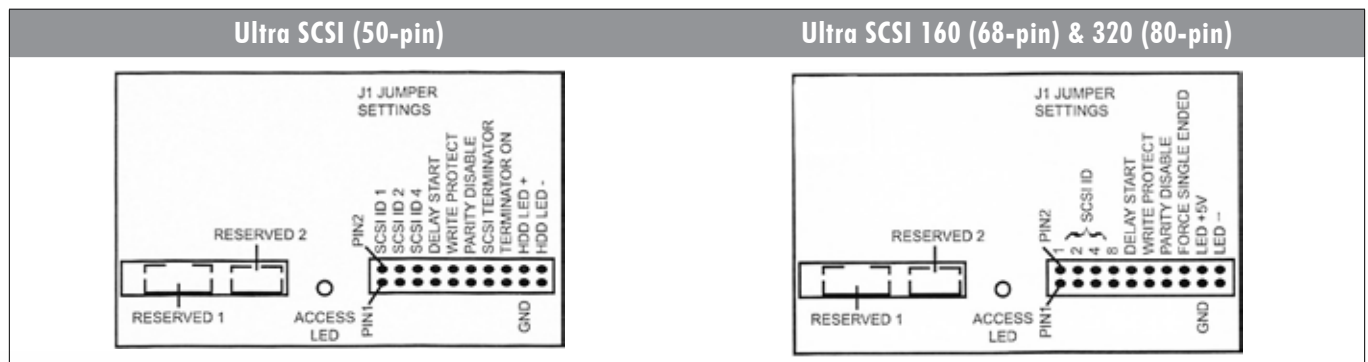
## Reliability

Load/Unload Cycles	20 MB/s
Nonrecoverable Rd Errors / Bit Rd	1 per 10E14
Annualized Failure Rate (AFR)	0.48%
Mean Time Between Failure	500,000 Hours

## Power Requirements

5V Start Max	Avg Idle	Avg Operating	Avg Seek
1.0A	0.8W	1.1W	2.2W

## SCSI Termination



This device may be self-installed, installed with KSI phone support, or installed by your service provider with KSI phone support. KSI offers 9-5 installation and warranty support during the 3-year warranty period, via phone.

### Kreative Systems, Inc.

12019 Colwick St., San Antonio Texas USA 78216

Ph (877) 768-1574 Fx (210) 377-1726

Email: [sales@kreativesystemsinc.com](mailto:sales@kreativesystemsinc.com)

Web: <http://www.kreativesystemsinc.com>

