Hybrid NXRZ-XL SCSI Drive

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

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

Solid State Drive Speed without the SSD Cost

Nemonix 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, Nemonix 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 Nemonix 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, Nemonix NXRZ drives can achieve over 240% better data throughput than the original legacy drives.

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

NEMONIX™ Engineering, Inc.

Giving new life to old systems.

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%

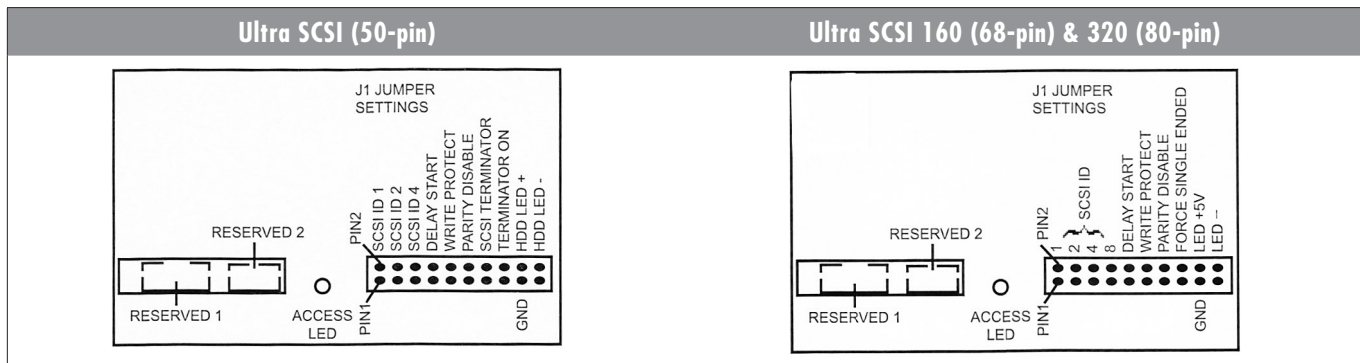|	2-Disk NXRZ SW RAID		NXRZ-XL
Windows Server 2008 1st boot time	25.9		33.2
Windows Server 2008 2nd boot time	26.1		21.9
Windows Server 2008 3rd boot time	25.7		18.6

Interface

	All Interfaces	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	Yes
Selectable SCSI IDs		0-7	0-15	0-15

Power Requirements

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

SCSI Termination

Ultra SCSI (50-pin)	Ultra SCSI 160 (68-pin) & 320 (80-pin)

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

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NEMONIX™ Engineering, Inc.   *Modern acceleration for legacy systems.*