



***High Performance
NXRZ-xx Disk SCSI Drive***

***Replacement RZ Disk Drive for
HP AlphaServers™ and VAX™***

SCSI-1 SCSI-2

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NEMONIX™ Engineering Inc. NXRZ-xx SCSI disk drives are direct replacements for the Digital Equipment Corporation/Compaq family of RZ disk drives.

This product replaces out of production RZ series SCSI disk drives. These new drives end the gamble when purchasing used SCSI RZ drives on the open market. No longer will you experience drives that will not spin up after they are spun down, have noisy spindles, or intermittent data errors caused by excessive bearing wear in the spindle motor assembly from too many years of running. These replacement drives bring back data reliability to your system.

These replacement drives are aimed at extending the life of your existing AlphaServer and VAX systems by giving you an option to replace your aging RZ series disk spindles with new drives. These drives are designed for easy plug-and-play installation utilizing either the original DEC SBB technology or conventional rail mountings. They can be supplied in capacities from 1GB to 36GB's. The NXRZ disk provides the same storage functions found in SCSI-1 and SCSI-2 fast, narrow, and wide hard disk drives. The onboard firmware and hardware manage the translation from SCSI host commands to IDE disk commands.

Physically, NEMONIX Engineering produces the same form, fit and function as standard RZ series drives. This delivers significant cost savings to the engineering, operations and service departments by eliminating periodic disk qualifications, inventory costs, and field upgrades. Once configured to the target system requirements, no modifications to the target systems are required. This makes the NEMONIX Engineering NXRZ disk an easy upgrade for field maintenance. Once installed, they appear as standard RZ drives so that the Operating System recognizes them. For drives installed in a BA35x, they assume the drive number according to slot in the BA35x they are inserted in.

Using modern +5 volt technology instead of both +5 and +12 volts, power and cooling requirements are far less than the original drives. This means that there is no worry of taxing your existing power and cooling systems. For BA35x owners, no power supply or two speed fan upgrade is required. Using SCSI host-to-IDE disk adapter architecture - with its controlled command set - combined with a standard 3.5-inch IDE disk drive, the NXRZ returns long term availability to your system.

Replacement drives are guaranteed for a period of 3 years.

Features and Benefits:

<u>Feature</u>	<u>Benefit</u>
<ul style="list-style-type: none"> Proven industry standards 	<ul style="list-style-type: none"> Standard SCSI interface delivers unparalleled operating system compatibility 3.5 inch form factor for standard drive
<ul style="list-style-type: none"> High capacity in a standard 1-inch tall enclosure 	<ul style="list-style-type: none"> The Nemonix Engineering NXRZ can be configured for capacities ranging from 1GB's to 36 GB's
<ul style="list-style-type: none"> Replaces out-of-production 3.5-inch hard disk drives 	<ul style="list-style-type: none"> Designed to replace all variants of Digital Equipment Corp. RZ series disk drives. RZ25, RZ26, RZ28, and RZ29, drives. Includes both low profile and full height drives.
<ul style="list-style-type: none"> Controlled command set features 	<ul style="list-style-type: none"> Ensures long term compatibility and availability
<ul style="list-style-type: none"> Configurable to meet demanding needs in wide ranging applications 	<ul style="list-style-type: none"> SCSI-1 and SCSI-2 compatible.
<ul style="list-style-type: none"> Industry Standard connections 	<ul style="list-style-type: none"> Standard 50 Pin connector and interface on drive. BA350 Compatible connector on drives in Shells Standard 4 pin power connector on drive

Supported Operating Systems:

<ul style="list-style-type: none"> OpenVMS 5.5.-2H4 and up
<ul style="list-style-type: none"> Tru64 UNIX

Key Application Areas:

<ul style="list-style-type: none"> Telecommunications switches, telephone voice mail, and PBX systems
<ul style="list-style-type: none"> Defense, avionics, and airborne systems
<ul style="list-style-type: none"> Network routers and switches
<ul style="list-style-type: none"> Semiconductor manufacturing equipment
<ul style="list-style-type: none"> Medical laboratory instrumentation
<ul style="list-style-type: none"> Avionics and airborne systems
<ul style="list-style-type: none"> Any device requiring SCSI drive availability beyond end-of-life service period.

Performance:

<ul style="list-style-type: none"> Start up times (reset to selection) 	250 ms or less
<ul style="list-style-type: none"> Start up times (Standby to active) 	4 ms (max)
<ul style="list-style-type: none"> Controller Overhead 	2 ms (max)
<ul style="list-style-type: none"> Read or Write (sustained) 	4 Mbytes/sec (min)
<ul style="list-style-type: none"> Read or Write (burst) 	8 Mbytes/sec (max)

Power Requirements:

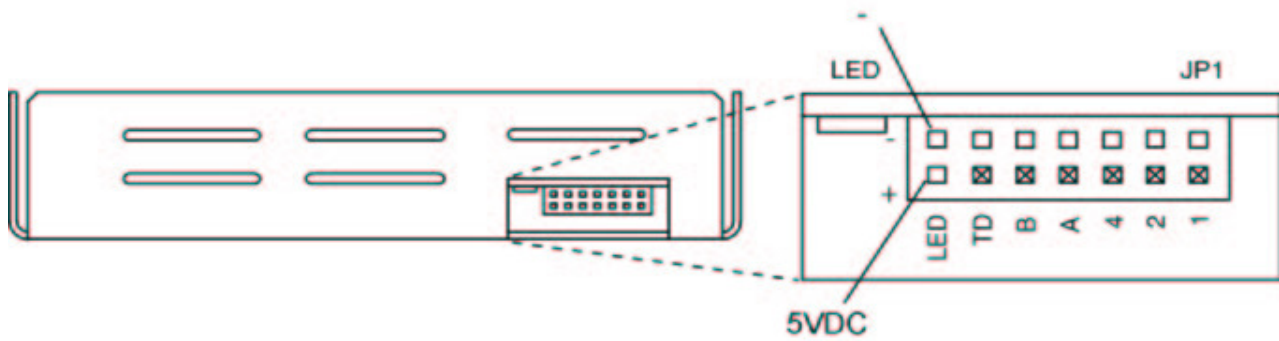
<ul style="list-style-type: none"> Start up current 	1.2A (max)
<ul style="list-style-type: none"> Active current 	0.7A (max)
<ul style="list-style-type: none"> Standby 	0.2A (max)

Reliability:

• Data Reliability	1 in 10 to the 13th bits read
• Service Life	Service life is based on active duty cycle
• Preventative Maintenance	None Required

SCSI Termination:

SCSI termination is supplied by onboard active terminators. Termination is enabled by default and can be disabled by placing a jumper on JP1, Pins TD.



JP1 Jumper Descriptions:

1,2,4	SCSI ID
A	Reserved
B	Disable Disconnects
TD	Termination Disconnect
LED	Remote mounted LED connector

SCSI ID	JP1 "4"	JP1 "2"	JP1 "1"
0	OFF	OFF	OFF
1	OFF	OFF	ON
2	OFF	ON	OFF
3	OFF	ON	ON
4	ON	OFF	OFF
5	ON	OFF	ON
6	ON	ON	OFF
7	ON	ON	ON

Note: No jumper setting is required for BA35x applications. They are factory set within the SBB enclosure.

This device may be installed utilizing Nemonix Engineering phone support, self installed, or we will work with your service provider. NEMONIX Engineering offers 9-5 installation and warranty support during the **3 year warranty period** via phone. NEMONIX Engineering takes pride in offering superior products, backed by outstanding service and support.

Contact NEMONIX™ Engineering Inc. for Further Information:

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