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StorageWorks

Release Notes

KZPSA SCSI Storage Adapter Module

Be sure to read these notes before installing the KZPSA SCSI Storage Adapter module into your AXP workstation or server.

INTRODUCTION

The KZPSA SCSI Storage Adapter is a high-performance Peripheral Component Interconnect (PCI) option module that serves as a pathway between the system's PCI I/O bus and a single 16-bit Fast Wide Differential SCSI bus. This document describes any known issues or restrictions when using the KZPSA SCSI Adapter within your system configuration. This document contains these sections:

- PARTS LIST FOR KZPSA-BB
- SUPPORTED AXP SYSTEMS
- VERIFIED DEVICE LISTING
- RESTRICTIONS

PARTS LIST FOR KZPSA-BB

Part Number	Description
EK-KZPSA-RN	Release Notes for the KZPSA-BB (this document)
54-22944-01	KZPSA PCI to FWD SCSI Module
EK-KZPSA-UG	KZPSA SCSI Storage Adapter User's Guide
AK-QGTNL-CA	KZPSA Alpha AXP Software diskette
74-47802-01	Offset Extender Bracket

SUPPORTED AXP SYSTEMS

The KZPSA is supported on the following AXP workstations and servers:

- AlphaStation 200
- AlphaStation 250
- AlphaStation 255
- AlphaStation 400
- AlphaStation 500
- AlphaStation 600/600A
- AlphaServer 300
- AlphaServer 400
- AlphaServer 800
- AlphaServer 1000/1000A
- AlphaServer 1200
- AlphaServer 2000
- AlphaServer 2100/2100A
- AlphaServer 4000/4100
- AlphaServer 8200
- AlphaServer 8400

VERIFIED DEVICE LISTING

The following table lists SCSI devices and their associated firmware which have been tested and have passed compatibility testing with the KZPSA adapter as of the date on this Release Note. We have not tested every existing computer and/or device in all possible configurations. Refer to the Restrictions section within this Release Note for known specific Operating System device restrictions.

Device Type	Description	Note	Minimum FW Rev.
8-bit Single-Ended Devices			
DS-RRD46-VA	12X, 600MB CDROM Drive		0557
DS-RZ28L-VA	2.1 GB 3.5” Disk		LYJ0/0654
DS-RZ29L-VA	4.3 GB 3.5” Disk		LYJ0/0654
DS-RZ40L-VA	9.1 GB 3.5” Disk		LYJ0/8203
EZ64-VA	475MB Solid State 5.25” Disk		V064
EZ69-VA	950MB Solid State 5.25” Disk		V064
RZ25	426 MB 3.5” Disk		0900
RZ25L	535 MB 3.5” Disk		0008
RZ26	1.05 GB 3.5” Disk		X384
RZ26L	1.05 GB 3.5” Low Profile Disk		440C
RZ26N	1.05 GB 3.5” Disk		0568/1103
RZ28	2.1 GB 3.5” Disk		441C
RZ28B	2.1 GB 3.5” Disk		0006
RZ28M	2.1 GB 3.5” Disk		0466/1103
RZ28D	2.1 GB 3.5” 7200 RPM Disk		0008
RZ29B	4.2 GB 3.5” 7200 RPM Disk		0007
RZ73	2.0 GB 5.25” Disk		T366
RZ74	3.5 GB 5.25” Disk		427H
TL812	.96/1.92 TB DLT Automated Tape Library	2	V1.20
TZ86	6 GB Digital Linear Tape		430B
TZ87	20 GB Digital Linear Tape		9003
TZ875	100 GB 5 Cartridge DLT Loader		930A
TZ88	20/40 GB Digital Linear Tape		CC33
TLZ06	4 GB 4-mm Digital Audio Tape		0491
TLZ07	8 GB 4-mm Digital Audio Tape		04AT
TLZ6L	16 GB 4 Cartridge DAT Loader	2	0491
TLZ09	8 GB 4-mm Digital Audio Tape		0165
TLZ9L-VA	32/64 GB, 8 cartridge magazine, 4mm DAT loader	2	A020
TLZ10-VA	12/24 GB, 4mm DAT loader		02AB
TKZ09	5 GB 8-mm Helical Scan Tape	2	045H
TZK10	525 MB QIC Tape		02B5
TZK11	2 GB QIC Tape		00X2
TZK20-DB	2.3 GB QIC Tape		A1
RRD42	600 MB 1X CD-ROM Drive		4.5d
RRD43	680 MB 2X CD-ROM Drive	1	1084
RRD44	680 MB 2X CD-ROM Drive	1	1094
RRD45	600 MB 4X CD-ROM Drive		1645

VERIFIED DEVICE LISTING (continued)

16-bit Single-Ended Devices			
DS-RZ1BB-VW	2.1 GB 3.5” Disk		LYJ0/0656
DS-RZ1CB-VW	4.3 GB 3.5” Disk		LYJ0/0656
DS-RZ1DB-VW	9.1 GB 3.5” Disk		LYJ0/0307
DS-TZ89N-VW	35/70GB DLT Tape		141F
DS-TZS20-VW	25/50GB AIT 8-mm Tape		01AJ
EZ31-VW	134MB Solid State 3.5” Disk		V064
EZ32-VW	268MB Solid State 3.5” Disk		V064
RZ26L-W	1.05 GB 3.5” Low Profile Disk		442E
RZ26N-W	1.05 GB 3.5” Disk		0568/1003
RZ28-W	2.1 GB 3.5” Disk		442E
RZ28M-W	2.1 GB 3.5” Disk		0466/1003
RZ28D-W	2.1 GB 3.5” 7200 RPM Disk		0008
RZ29B-W	4.2 GB 3.5” 7200 RPM Disk		0007
TZ89N-VW	35/70 GB DLT Tape		141F
16-bit Differential Devices			
HSZ10	RAID Array Controller		0306
HSZ40	RAID Array Controller		V2.5
HSZ50	RAID Array Controller		V5.0
HSZ70	RAID Array Controller		V7.0

Note:

1) Use a DWZZB converter with your KZPSA to connect to the RRD43 or RRD44.

2) No Windows NT Support at this time.

RESTRICTIONS

Miscellaneous:

- Certain older SCSI disk and tape devices that cannot properly handle wide SCSI transfer negotiations might not work correctly with the KZPSA adapter. For example, when you use the console command *show config*, the system will not display information about these older disk or tape devices, i.e. RZ58.

  To avoid this problem, contact your Digital services representative to verify your device contains the latest firmware revision and/or run the KZPSA Utility (described in Chapter 6 of KZPSA Users Guide) to disable Wide Negotiation for the device.

UNIX Restrictions:

- The minimum UNIX revisions that support the KZPSA is V3.2G (ASE V1.3, TCR V1.0) or 4.0B (ASE V1.4a, TCR V1.4a). KZPSA FW rev A11 requires patches for 3.2G and 4.0B. If your version of Unix is different, keep your KZPSA FW at rev A10.
- UNIX supports the use of up to seven SCSI devices for each KZPSA storage adapter.
- The KZPSA-BB adapter is supported on DECSafe Available Server revision V1.2 or greater.
- DECSafe V1.2 support of the KZPSA now requires firmware revision A11. You will notice the DECSafe ASE V1.2 documentation references A04 firmware. The minimum revision required is superseded by this new revision.
- In a DECsafe environment which contains KZPSAs with firmware A06 or older, firmware upgrades to A11 should be done in a sequence starting with the KZPSA that has the lowest SCSI bus node number. The system that has the lowest node numbered adapter should be upgraded first, and the highest should be upgraded last. This is only critical if other nodes remain operational during the upgrade process.

Windows NT Restrictions:

- The minimum NT revision that supports the KZPSA is Version 3.51 or 4.0.
- The minimum NT driver revision that supports the KZPSA is 1.41.
- The latest driver is available from:
  www.storage.digital.com/swrks/homepage/sup_html/techtips/adapters/adapters.htm

  (This area also includes update instructions.)
- NT does not support the HSZ10 through the KZPSA.
- Refer to Windows NT Hardware Compatibility List for devices supported.

OpenVMS Restrictions:

- The minimum OpenVMS revision that supports the KZPSA is V6.2 or V7.1.
- OpenVMS supports the use of up to seven SCSI devices for each KZPSA storage adapter under OpenVMS V6.2 and up to fifteen SCSI devices under V7.1.
- OpenVMS does not support the HSZ10 through the KZPSA.
- The minimum OVMS revision that supports the KZPSA in a SCSI Cluster is V6.2-1H3.
- The minimum KZPSA hardware revision that is supported under OpenVMS is F01.

KZPSA Restrictions:

- KZPSA-BB firmware revision A11 or greater is recommended for all applications **except** certain UNIX revisions. See UNIX restrictions.
- HSZ70 support requires KZPSA FW revision A11. Please check with customer service for any required operating system patches. The latest changes can be checked at *www.service.digital.com* From this homepage, select Support_Services, then Patch, then Public Access, then Search and Download Utility. Then select a category, such as Digital_Unix_Readmes or OpenVMS_Readmes, and a query of HSZ. This should expose the latest patches needed for your environment.
- There have been some reported cases where the CNFGDIAG and FWUPDATE utilities did not function properly when multiple KZPSAs were installed in an AlphaServer 2X00 containing ARC console rev 3.51. The work around is to install only one KZPSA at a time and to configure that one module. Configuration information is stored in non-volatile memory so each module can be set up one at a time. After each module has been individually configured, all modules may be installed in the system.
- When using an 8-bit I/O Module (BA35X-MG) within a BA356 16-bit wide SCSI storage enclosure to daisy chain to a second BA356 enclosure, you must disable KZPSA wide negotiations on any wide devices which may be present within the second BA356 enclosure. This is accomplished through the cnfgdiag utility.
- The minimum KZPSA hardware revision that is supported on an AlphaServer 8x00 is M01.