COMPAQ
STORAGEWORKS

Release Notes

KZPSA SCSI Storage Adapter Module

Be sure to read these notes before installing the KZPSA SCSI Storage Adapter module into your ALPHA 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 COMPAQ 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-QGTNN-CA	KZPSA Alpha AXP Software diskette
74-47802-01	Offset Extender Bracket

SUPPORTED COMPAQ SYSTEMS

The KZPSA is supported on the following Alpha 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
- AlphaServer GS60
- AlphaServer GS140

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.   Although our testing is mainly focused on StorageWorks Building Block (SBB) variants, other variants of the device, such as table top and embedded, are also supported as a result of this testing. Refer to the Restrictions section within this Release Note for known specific Operating System device restrictions.

8-bit Single-Ended Devices

Device Type	Description	Note	Minimum FW Rev.
DS-RZ28L-VA	2.1 GB 7200 RPM Disk in 3.5" SBB		LYJ0/0654
DS-RZ29L-VA	4.3 GB 7200 RPM Disk in 3.5" SBB		LYJ0/0654
DS-RZ40L-VA	9.1 GB 7200 RPM Disk in 3.5" SBB		LYJ0/8203
EZ64-VA	475MB Solid State Disk in 5.25" SBB		V064
EZ69-VA	950MB Solid State Disk in 5.25" SBB		V064
RZ25-VA	426 MB 5400 RPM Disk in 3.5" SBB		0900
RZ25L-VA	535 MB 5400 RPM Disk in 3.5" SBB		0008
RZ26-VA	1.05 GB 5400 RPM Disk in 3.5" SBB		X384
RZ26L-VA	1.05 GB 5400 RPM Disk in 3.5" SBB		440C
RZ26N-VA	1.05 GB 5400 RPM Disk in 3.5" SBB		0568/1103
RZ28-VA	2.1 GB 5400 RPM Disk in 3.5" SBB		441C
RZ28B –VA	2.1 GB 5400 RPM Disk in 3.5" SBB		0006
RZ28M-VA	2.1 GB 5400 RPM Disk in 3.5" SBB		0466/1103
RZ28D-VA	2.1 GB 3.5" 7200 RPM Disk in 3.5" SBB		0008
RZ29B-VA	4.2 GB 3.5" 7200 RPM Disk in 3.5" SBB		0007
RZ73-VA	2.0 GB 5400 RPM Disk in 5.25" SBB		T366
RZ74-VA	3.5 GB 5400 RPM Disk in 5.25" SBB		427H
TL812	.96/1.92 TB DLT Automated Tape Library		V1.20
TZ86-VA	6 GB DLT Tape in 5.25" SBB		430B
TZ87-VA	20 GB DLT Tape in 5.25" SBB		9003
TZ875	100 GB 5 Cartridge DLT Loader		930A
TZ88N-VA	20/40 GB DLT Tape in 5.25" SBB		CC33/D887
TLZ06-VA	4 GB 4-mm DAT Tape in 3.5" SBB		0491
TLZ07-VA	8 GB 4-mm DAT Tape in 3.5" SBB		04AT
TLZ6L-VA	16 GB 4-mm DAT Loader in 5.25" SBB		0491
TLZ09-VA	8 GB 4-mm DAT in 3.5" SBB		0165
TLZ9L-VA	32/64 GB 4-mm DAT loader in 5.25" SBB		A020
DS-TLZ10-VA	12/24 GB 4-mm DAT Tape in 3.5" SBB		02AB
TKZ09-VA	5 GB 8-mm Helical Scan Tape in 5.25" SBB		045H
TZK10-VA	525 MB QIC Tape in 5.25" SBB		02B5
TZK11-VA	2 GB QIC Tape in 5.25" SBB		00X2
TZK20-DB	2.3 GB QIC Tape in 5.25" SBB		A1
RRD42-VA	600 MB 1X CD-ROM in 5.25" SBB		4.5d
RRD43-VA	680 MB 2X CD-ROM in 5.25" SBB	1	1084
RRD44-VA	680 MB 2X CD-ROM in 5.25" SBB	1	1094
RRD45-VA	600 MB 4X CD-ROM in 5.25" SBB		1645

8-bit Single-Ended Devices (continued)

Device Type	Description	Note	Minimum FW Rev
DS-RRD46-VW	600 MB 12X CD-ROM in 5.25" SBB		0557
DS-RRD47-VW	600 MB 32X CD-ROM in 5.25" SBB		1206
TZ885-NE	100/200 GB 5 Cartridge DLT Rackmount		CF64
TZ887-NE	100/200 GB 7 Cartridge DLT Rackmount		CF64
DS-RZ1CF-VA	4.3 GB 7200 RPM Disk in 3.5" SBB		N1H1/0371/1614
DS-RZ1DF-VA	9.1 GB 7200 RPM Disk in 3.5" SBB		N1H1/0371/1614
DS-RZ1EF-VA	18.2 GB 7200 RPM Disk in 3.5" SBB		N1H1/0371

16-bit Single-Ended Devices

Device Type	Description	Note	Minimum FW Rev
DS-RZ1BB-VW	2.1 GB 7200 RPM Disk in 3.5" SBB		LYJ0/0658
DS-RZ1CB-VW	4.3 GB 7200 RPM Disk in 3.5" SBB		LYJ0/0658
DS-RZ1DB-VW	9.1 GB 7200 RPM Disk in 3.5" SBB		LYJ0/0307
DS-RZ1CF-VW	4.3 GB 7200 RPM Disk in 3.5" SBB		N1H1/0371/1614
DS-RZ1DF-VW	9.1 GB 7200 RPM Disk in 3.5" SBB		N1H1/0371/1614
DS-RZ1EF-VW	18.2 GB 7200 RPM Disk in 3.5" SBB		N1H1/0371
DS-RZ1CD-VW	4.3 GB 10K RPM Disk in 3.5" SBB		0306
DS-RZ1DD-VW	9.1 GB 10K RPM Disk in 3.5" SBB		0306
DS-RZ1ED-VW	18.2 GB 10K RPM Disk in 3.5" SBB		0306
DS-RZ1DA-VW	9.1 GB 7200 RPM Disk in 3.5" SBB		3B05
DS-RZ1EA-VW	18.2 GB 7200 RPM Disk in 3.5" SBB		3B05
DS-RZ1FB-VW	36.4 GB 7200 RPM Disk in 3.5" SBB		3B05
DS-EZ41-VW	134 MB Solid State Disk in 3.5" SBB	2	Y012
DS-EZ42-VW	268 MB Solid State Disk in 3.5" SBB	2	Y012
DS-EZ705-VW	536 MB Solid State Disk in 5.25" SBB	2	Y012
DS-EZ711-VW	1.1 GB Solid State Disk in 5.25" SBB		Y012
DS-EZ716-VW	1.6 GB Solid State Disk in 5.25" SBB		Y012
DS-EZ454-VW	536 MB Solid State Disk in 3.5" SBB	2	Y018
DS-EZ832-VW	3.2 GB Solid State Disk in 5.25" SBB		Y018
DS-TZ89N-VW	35/70 GB DLT Tape in 5.25" SBB		141F
DS-TZS20-VW	25/50 GB AIT 8-mm Tape in 3.5" SBB		01AJ
EZ31-VW	134 MB Solid State Disk in 3.5" SBB	2	V064
EZ32-VW	268 MB Solid State Disk in 3.5" SBB	2	V064
EZ64-VW	475 MB Solid State Disk in 3.5" SBB	2	070
EZ69-VW	950 MB Solid State Disk in 3.5" SBB		070
RZ26L-VW	1.05 GB 5400 RPM Disk in 3.5" SBB		442E
RZ26N-VW	1.05 GB 5400 RPM Disk in 3.5" SBB		0568
DS-RZ26N-VZ	1.05 GB 5400 RPM Disk in 3.5" SBB		1003
RZ28-VW	2.1 GB 5400 RPM Disk in 3.5" SBB		442E
RZ28M-VW	2.1 GB 5400 RPM Disk in 3.5" SBB		0466
DS-RZ28M-VZ	2.1 GB 5400 RPM Disk in 3.5" SBB		1003
RZ28D-VW	2.1 GB 7200 RPM Disk in 3.5" SBB		0008
RZ29B-VW	4.2 GB 7200 RPM Disk in 3.5" SBB		0007

16-bit Differential Devices

Device Type	Description	Note	Minimum FW Rev
HSZ10	Fast10 SCSI RAID Array Controller		0306
HSZ40	Fast10 SCSI RAID Array Controller		V2.5
HSZ50	Fast10 SCSI RAID Array Controller		V5.0
HSZ70	UltraSCSI RAID Array Controller		V7.0

Bus Expanders / Converters & Hubs

Device Type	Description
DWZZB-VW	Fast Wide Differential to Single-Ended Bus Expander / Converter in 3.5" SBB
DS-DWZZC-DA	UltraSCSI Differential to Single-Ended Bus Expander / Converter, tabletop
DS-DWZZH-03	UltraSCSI Hub with 3 Differential ports in 3.5" SBB
DS-DWZZH-05	UltraSCSI Hub with 5 Differential ports in 5.25" SBB

Notes:

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

2. The EZ31/32/41/42/64/705/454 solid state disk drives are too small to be used as a system disk under OpenVMS and Digital UNIX.

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 Compaq 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).

- 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.

- In a DECsafe environment which contains KZPSAs with firmware A06 or older, firmware upgrades to A12 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 4.0.

- 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 A12 or greater is recommended for all applications.

- HSZ70 support requires KZPSA FW revision A12. Please check with customer service for any required operating system patches. The latest changes can be checked at *www.compaq.com/support* From this homepage, select "patches" under downloadable drivers & utilities, then select "search patches" under associated links. Then select an operating system patch category from the Enter Service Site pull down menu and a search 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.