

AlphaStation 600 Series

I/O Subsystem Information Supplement

Order Number: EK-AL600-IS. A01

February 1995

This supplement provides reference and configuration information for I/O subsystem options that the AlphaStation 600 Series systems support.

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AlphaStation 600 Series I/O Subsystem Information Supplement

1 Overview

This supplement describes the AlphaStation 600 Series I/O subsystem modules. The AlphaStation 600 Series system board supports 32-bit or 64-bit PCI options. The systems described in this supplement are shipped with a KZPAA-AX SCSI disk controller and either an Etherworks Turbo PCI Controller DE435 module or a P2SE module to support the Ethernet. For more detailed information about the AlphaStation 600 system, refer to the *AlphaStation 600 Series User Information* (EK-AS800-UI).

2 KZPAA-AX SCSI Disk Controller

For proper operation, observe the following rules:

Do not use the SCSI bus to connect external devices.

- A maximum of seven internal SCSI devices can be connected to the cable.
- Make sure that no SCSI IDs are duplicated.
- Do not connect any devices to the SCSI EISA bulkhead connector on the KZPAA-AX module because the connector is not used in this configuration.
- Do not terminate any of the internal SCSI devices because termination can only occur at each end of the SCSI bus.

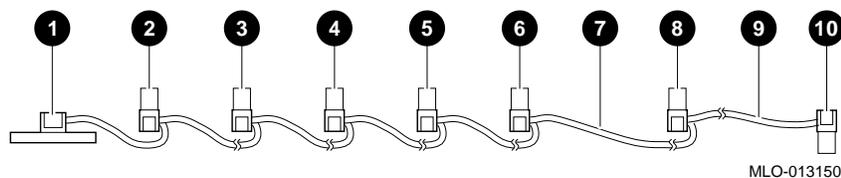
The KZPAA-AX controller contains one SCSI 2 port. The port is a single-ended, narrow, active port and is wired to all internal SCSI devices by a wide SCSI cable (P/N 17-04077-01). See Figure 1. The wide SCSI cable has a built-in active, wide terminator at one end and can connect to a CD-ROM drive, another 5.25-inch option, and up to three hard drives to the KZPAA-AX module.

The wide SCSI cable (P/N 17-04077-01) is connected to the removable media drives with a wide-to-narrow SCSI adapter (P/N 17-04009-01). This wide-to-narrow adapter converts the conductor wide bus to a 50-position narrow bus. At the KZPAA-AX module, the SCSI bus is high-byte terminated. The cable continues to the rear bulkhead as a narrow bus.

In the accessory kit there is an active narrow SCSI terminator (P/N 12-44837-01). This terminator must be used at the rear of the bulkhead in the slot labeled SCSI bus A in order to complete the proper termination for the internal SCSI port.

Two 2-pin jumpers are located in the center of the KZPAA-AX module. The module is shipped with the jumpers in the disable terminator mode and must remain in that mode for proper system operation.

Figure 1 Internal Cable Connections



- ❶ Terminator
- ❷ CD-ROM drive
- ❸ Tape backup unit or other 5.25-inch option
- ❹ 3.5-inch hard drive
- ❺ 3.5-inch hard drive
- ❻ 3.5-inch hard drive
- ❼ 68 conductor wide bus
- ❽ KZPAA-AX controller
- ❾ 50 conductor narrow bus
- ❿ Rear bulkhead connector. Terminate with **ACTIVE** terminator.

Note

The accessory kit contains a cable (P/N 17-04020-01). Store this cable for future use.

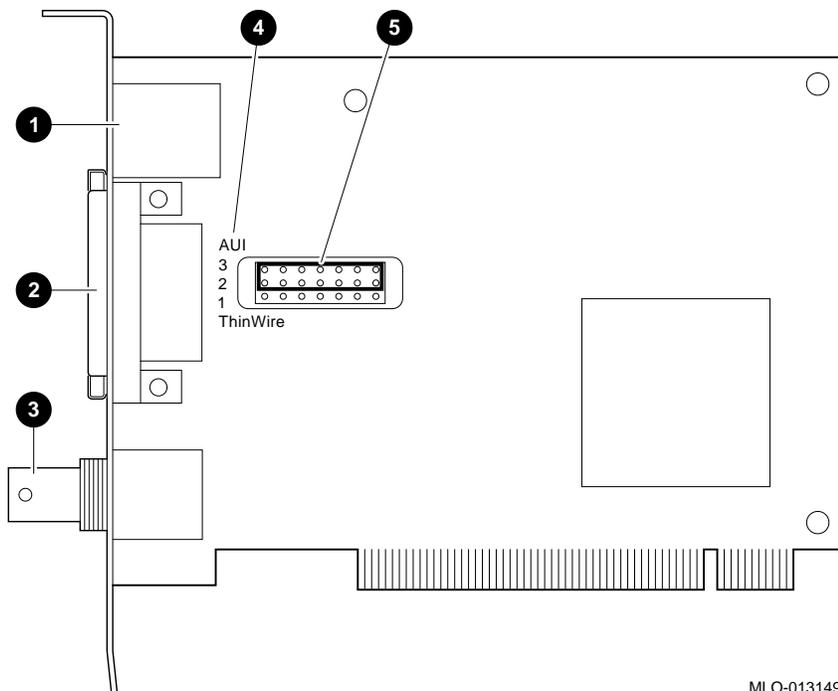
3 The Etherworks Turbo PCI Controller DE435 Module

The Etherworks Turbo PCI Controller DE435 module supports Twisted pair, ThickWire, or ThinWire connections. See Figure 2 for ThickWire and ThinWire jumpering. To select between ThickWire and ThinWire, reposition the jumper bank.

The DE435 module comes configured for ThinWire Ethernet. The jumper bank covers the pins in rows 1 and 2. The pins in the row 3 are exposed.

To select ThickWire, remove the jumper bank from rows 1 and 2 and place the jumper bank over the pins in rows 2 and 3. The pins in row 1 are exposed. Figure 2 shows the jumper bank positioning to select ThickWire.

Figure 2 ThickWire and ThinWire Jumpering



MLO-013149

- ❶ Twisted pair connector
- ❷ ThickWire connector
- ❸ ThinWire connector

- ④ Jumpering legend
- ⑤ Jumper bank

4 The P2SE Module

Caution

The P2SE module has three internal connectors. These connectors are not used in this configuration and must not have any devices connected to them to ensure proper system operation.

The P2SE and DE435 modules perform the same Ethernet functions. ThinWire and ThickWire Ethernet selection is identical to the instructions given in Section 3 section.

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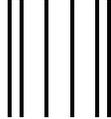
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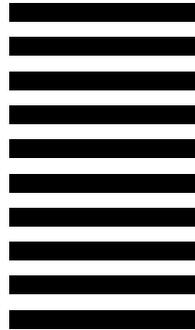
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