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Find the *Adaptec AHA-2S40U2W* at our website: ***Click HERE***

Adaptec Product Specifications: Adaptec AHA-2940 Ultra

Overview

The AHA-2940 Ultra host adapter is the ideal PCI-to-SCSI host adapter for entry-level servers and workstations. It moves data fast -- up to 20 MByte/sec. And it connects up to 7 SCSI devices for expanded storage capacity. In addition, the AHA-2940 Ultra adapter delivers unrivaled system and peripheral compatibility.

Features and Benefits

Features and Benefits

RISC-based SCSI - the key to maximum performance

The AHA-2940 is the newest addition to the Adaptec line of RISC-based SCSI host adapters. At the core of this new host adapter family is the Adaptec-designed PhaseEngine RISC processor. The 10 MIPS PhaseEngine processor minimizes the time it takes to process SCSI commands by automating SCSI phase changes and advanced SCSI features. This allows the CPU to perform other tasks and improves overall system efficiency and performance.

The programmable PhaseEngine RISC processor also executes self-contained microcode, which is downloaded by the main CPU at system initialization. This enables quick and easy microcode upgrades. Further, a 64-byte scratch memory stores configuration information established by the BIOS-resident SCSISelect configuration utility.

With the Adaptec-designed RISC processor, the AHA-2940 host adapter maximizes system I/O performance by utilizing the PCI local-bus to process data at transfer rates of up to 133 Mbytes/second. This new technology is essential in meeting the demands of high-performance applications.

Wide SCSI support for increased performance

The AHA-2940W PCI-to-Wide SCSI host adapter provides connectivity to 16-bit as well as standard 8-bit SCSI devices. This connectivity increases I/O performance by doubling the maximum SCSI bus band-width from 10 Mbytes per second for standard 8-bit SCSI to 20 Mbytes per second for Wide 16-bit SCSI.

Simple installation and easy, flexible configuration

The AHA-2940 family of host adapters is easily installed and configured. Simply install the board in the PCI slot, then run the menu-driven SCSISelect configuration utility resident on the host adapter. The SCSISelect configuration utility eliminates the need to handle jumpers, making host adapter installation quick and easy. In addition, the programmable active termination featured in the AHA-2940 family and con-trolled by the SCSISelect utility makes installation of external SCSI peripherals fast and simple.

When upgrading the PCI system with external SCSI peripherals, there is no need to open the PC chassis. Adaptec's SCSISelect utility provides key information on-screen, including the host adapter version and current configuration. Active termination and other host adapter settings may then be reconfigured on-screen through menus rather than handling jumpers and changing switch settings on the hardware.

Proven Adaptec quality and reliability

PRODUCT DETAILS

- The Best Connection for Windows NT (PDF, 313KB)
- Product Family Comparison

PRODUCT RESOURCES

- Product Support
- Product Downloads
- Set-up & Installation
- A.S.K. Knowledgebase Articles
- Register My Product

The hardware for the AHA-2940 family of host adapters is based on state-of-the-art VLSI technology, providing maximum performance and reliability. To ensure compatibility with PCI systems, the AHA-2940 family has undergone exhaustive testing in Adaptec's compatibility test lab. In addition, each board is subjected to extensive functional and mechanical inspections and tests to ensure the highest quality and reliability.

As the PCI standard becomes established in the industry, Adaptec recognizes the need to work with core technology providers to ensure long-term compatibility. Adaptec has been proactive in building relationships with leading BIOS, core chip-set and system providers to assure compliance and compatibility with the PCI 2.0 specification. Our on-going testing and reporting procedures allow us to provide users with the most current PCI compatibility data.

In support of its commitment to quality, Adaptec's manufacturing facility has earned ISO-9002 certification. This international quality standard, established by the International Organization for Standardization (ISO), ensures a high level of product quality, production, testing and service.

IOware® products by Adaptec

Adaptec's IOware products combine hardware and software technology into I/O solutions which ensure the level of performance required for today's data- and graphics-intensive applications. Resident in both the computer and the peripherals, Adaptec IOware products speed the flow of data from one part of the system to another, significantly improving overall performance.

Product Details

Product Description

Connect removable, back-up storage devices in desktop and server environments

Customer Needs

Internal and external Ultra SCSI connectivity

System Environment

For Desktop PCs and Servers

Data Transfer Rate

Up to 20MB/sec

External Connectors

50-pin High Density

Internal Connectors

50-pin Standard

Bus Type

32-bit PCI

System Requirements

- IBM-compatible PC-486, Pentium, or above
- Windows NT, Windows 95, Windows 3.1, or DOS 6.0, OS/2, UNIX or Netware Operating System
- PCI expansion slot
- SCSI peripheral

Package Contains

- AHA-2940 Ultra SCSI Card
- EZ-SCSI 5.0 software (for use only with Windows 95, 98, ME, or Windows NT 4.0 operating systems)
- 50-pin internal SCSI cable
- Quick installation guide
- Reference guide

- Registration card

Warranty

5-year manufacturing and materials warranty

Supported Protocols

SCSI-1
SCSI-2
SCSI-3
UltraSCSI

Advanced SCSI Features

Advanced SCSI Programming Interface (ASPI) compliant
multi-threaded I/O
scatter/gather
tagged queuing
disconnect/reconnect
synchronous and asynchronous Fast and Wide
bootable from attached disks

Hard Disk Capacity

Extended translation scheme supports up to eight (8) Gbytes per disk

Electrical Drivers

Single-ended, active, programmable via SCSISelect configuration utility

Electrical & Mechanical Specifications

Board Dimensions

4.75" x 3.5"

Operating Characteristics

32 F to 131 F (0 C to 55 C) 10% to 90% Relative Humidity, non condensing

Storage Characteristics

-67 F to 185 F (-55 C to 85 C)

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