

# ADAPTEC®

## AHA-2940 Ultra Wide

**High-performance Ultra Wide SCSI  
for workstations and entry-level servers**



### PRODUCT HIGHLIGHTS

- 40 MByte/sec Ultra Wide SCSI data transfer rate
- Connection for up to 15 SCSI peripheral devices
- Designed for true multitasking
- Tested for compatibility with hundreds of systems and peripherals from major manufacturers
- Most popular SCSI host adapter family in the industry

### Overview

The AHA-2940 Ultra Wide host adapter is the ideal PCI-to-SCSI host adapter for entry-level servers and workstations. It moves data fast—up to 40 MByte/sec. And it connects up to 15 SCSI devices for expanded storage capacity. In addition, the AHA-2940 Ultra Wide adapter delivers unrivaled system and peripheral compatibility.

### Key Benefits

#### Fastest data transfer speed

Combining UltraSCSI speed and 16-bit wide SCSI data transfers, the AHA-2940 Ultra Wide host adapter moves data on the SCSI bus at a maximum rate of 40 MByte/sec. By increasing the throughput rate between peripherals and the system CPU, the AHA-2940 Ultra Wide adapter accelerates system performance and user productivity.

#### Most peripheral connections

The AHA-2940 Ultra Wide host adapter delivers expanded connectivity to meet the storage capacity requirements of server environments. It supports up to 15 SCSI devices simultaneously. Both 8-bit and 16-bit devices can be configured in any combination for maximum configuration flexibility.

#### Time-saving multitasking

The AHA-2940 Ultra Wide host adapter makes true multitasking possible. SCSI technology offers unique features, including disconnect/reconnect, tagged command queuing, and multi-threaded I/O, that allow the system CPU to move data to and from multiple peripheral devices simultaneously.

#### Unparalleled compatibility

All Adaptec host adapters are rigorously tested with hundreds of different SCSI peripherals and systems, which makes them the most compatible and reliable host adapters in the marketplace. The AHA-2940 Ultra Wide adapter is fully compatible with all popular desktop and network operating systems, including Microsoft® Windows® 3.1, DOS, Windows NT™, Windows® 95, OS/2, NetWare, and UNIX. Under Windows 95, the AHA-2940 Ultra Wide adapter utilizes advanced Plug-and-Play features that automatically assign IDs and control termination.

#### The complete kit

The AHA-2940 Ultra Wide kit provides everything necessary for connecting high-performance SCSI peripherals to workstations and entry-level servers. It features the AHA-2940 UW host adapter board with internal SCSI cables, and complete user documentation. The kit also includes Adaptec EZ-SCSI® software for simple installation and the SCSISelect® utility for easy on-screen performance tuning.

## COMPLETE KIT CONTENTS

- AHA-2940 UW PCI-to-Wide UltraSCSI host adapter board
- Adaptec 7800 Family Manager Set software drivers for Windows NT, Windows 95, OS/2.x and 3.x, Netware 3.x and 4.x, SCO Unix 3.2.x and Unixware 1.x and 2.x
- Adaptec EZ-SCSI software for Windows NT, Windows 95, Windows for Workgroups, and DOS
  - Includes applications such as: SCSI Tape Backup™ (Backup Basics), QuickScan, CD Player, Photo CD Viewer (Magic Lantern™), Advanced Power Management, SCSI Interrogator™, SCSI Disk Partitioner, SCSTutor™, SCSI Bench
  - Provides device support for hard disks, removable disks, MO, CD-ROM, CD-Recordable, Photo CD and tape drives and scanners
- One 3-position, 68-pin UltraSCSI internal ribbon cable
- One 3-position, 50-pin UltraSCSI internal ribbon cable
- Complete user documentation
- Five-year warranty card

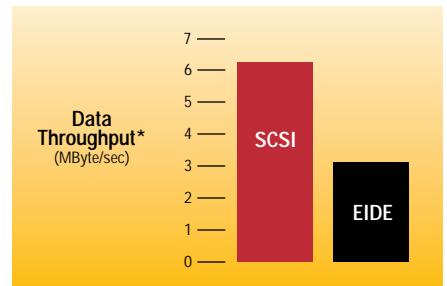


## TECHNICAL SPECIFICATIONS

<b>Computer Bus:</b>	PCI Local Bus
<b>Interface Protocol:</b>	Bus master DMA
<b>Host Bus Burst Data Rate:</b>	133 MByte/sec
<b>Peripheral Bus:</b>	8-bit and 16-bit Wide UltraSCSI
<b>SCSI Synchronous Data Rate:</b>	40 MByte/sec
<b>SCSI Asynchronous Data Rate:</b>	3.3 MByte/sec
<b>Device Protocol:</b>	SCSI-1, SCSI-2, SCSI-3, Wide UltraSCSI
<b>Advanced SCSI Features:</b>	-Multithreaded I/O (up to 255 tasks simultaneously) -Scatter/gather -Disconnect/reconnect -Tagged command queuing -Synchronous and asynchronous data transfer
<b>External Connector:</b>	68-pin high-density
<b>Hard Disk Capacity:</b>	Extended translation supports drive capacity up to 8 GBytes per disk
<b>Device Support:</b>	Up to 15 devices under DOS 5.0 and above
<b>Electrical Termination:</b>	Automatic, active, programmable via SCSISelect
<b>Operating Environment:</b>	Microsoft Windows 3.x, DOS, Windows NT, Windows 95, OS/2 2.x and 3.x, NetWare 3.12 and 4.x, SCO UNIX 3.2.x, and UnixWare 1.x and 2.x

## PHYSICAL AND ENVIRONMENTAL SPECIFICATIONS

<b>Length:</b>	6.87 inches (17.0 cm)
<b>Height:</b>	3.87 inches (9.5 cm)
<b>Operating Temperature:</b>	0°C to 55°C
<b>Storage Temperature:</b>	-55°C to 85°C
<b>Humidity (operating):</b>	10% to 90%, non condensing
<b>MTBF:</b>	494,641 hours, per Bellcore TR-NWT-000332, Issue 4, Method 1



Adaptec AHA-2940UW host adapter delivers true multitasking — and cuts waiting time in half!

Benchmark configuration: 200 MHz Pentium, Dell Dimension XPS with 32 MB EDO RAM and 256 KB L2 Cache; UltraSCSI: AHA-2940UW adapter with (2) IBM UltraStar ES Ultra Wide SCSI drives; ATA: Dell Dimension on-board PCI ATA, (2) Western Digital Caviar AC31600 Mode 4 EIDE drives; Windows NT 4.0; ThreadMark® Data Throughput Benchmark.

\*Throughput measures the rate of data transfer.



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using 8 bits, 1 stop bit, no parity)  
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