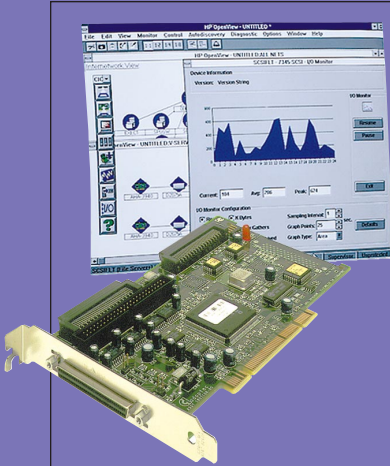


# AHA<sup>®</sup>-3940AU/3940AUW

## Superior I/O performance with MultiChannel<sup>™</sup> Ultra SCSI for PCI



### Product Highlights

- Two independent SCSI channels on one board saves a PCI slot
- Up to 40 MByte/sec across multiple SCSI channels for data throughput up to 80 MByte/sec
- Connection for up to 30 SCSI devices
- Compatible with Ultra SCSI and legacy SCSI protocols

### Overview

For servers and high-end PC workstations, the large number of peripherals can often degrade system performance. The Adaptec AHA-3940A family of multichannel PCI host adapters provides the ultimate solution to maximize data throughput while handling a large number of peripheral devices.

Featuring two independent Ultra SCSI channels on a single board, the AHA-3940A host adapters not only save you a valuable PCI slot, but also give you flexibility in configuring your system. Data throughput can be optimized by moving slower peripherals to a different SCSI channel, ensuring maximum data transfers on both channels.

### Key Benefits

#### Maximize data transfer rate

The AHA-3940A host adapters integrate two independent Ultra SCSI channels on a single board for maximum data throughput. The AHA-3940AU transports data at 20 MByte/sec on each channel for a combined throughput of 40 MByte/sec. The AHA-3940AUW doubles this transfer rate delivering throughput up to 80 MByte/sec.

#### Save a valuable PCI slot

The AHA-3940A host adapters support multiple Ultra SCSI channels through a single PCI slot, freeing a valuable PCI slot for other uses. Because one multichannel adapter does the work of two independent single-channel adapters, the cost per channel of a system is reduced.

#### Increase configuration flexibility

Because of its multichannel design, the AHA-3940A host adapters accommodate a large number of peripherals without sacrificing performance. The AHA-3940AU host adapter handles up to 14 devices, while the AHA-3940AUW accommodates up to 30 peripheral devices. The dual channel architecture enables slower peripherals, such as scanners and tape drives, to be configured on one channel, ensuring unimpeded throughput from high-speed disk drives on the other channel. The AHA-3940A host adapters are fully backwards compatible and support a wide mix of legacy SCSI technologies.

#### Simple installation

Installation and configuration of the AHA-3940A family is easy; simply place the board in a PCI slot, then run the menu-driven SCSISelect<sup>™</sup> software to configure the host adapter and SCSI devices.

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# AHA<sup>®</sup>-3940AU/3940AUW

## Complete Kit Contents

The AHA-3940AU and AHA-3940AUW PCI MultiChannel host adapters are available in a complete kit that includes:

- AHA-3940AU or AHA-3940AUW PCI MultiChannel host adapter with SCSISelect<sup>®</sup> utility
- Adaptec EZ-SCSI<sup>®</sup> software for DOS and Windows
- Adaptec 7800 Family Manager Set
- Complete hardware and software documentation
- Two internal SCSI ribbon cables (external cable not included)

## Technical Specifications

Computer bus:	PCI v2.1 Local Bus
Interface protocol:	Bus master DMA
Host bus data transfer rate:	Up to 133 MByte/sec burst rate
SCSI synchronous data rate:	AHA-3940AU — 40 MByte/sec (20 MByte/sec per channel) AHA-3940AUW — 80 MByte/sec (40 MByte/sec per channel)
SCSI asynchronous data rate:	AHA-3940AU — 6 MByte/sec (3 MByte/sec per channel) AHA-3940AUW — 12 MByte/sec (6 MByte/sec per channel)
Device protocol:	AHA-3940AU — 8-bit Ultra SCSI AHA-3940AUW — 16-bit Ultra SCSI
Advanced SCSI features:	Advanced SCSI Programming Interface (ASPI) compliant Multitasking operating system support (through scatter/gather, disconnect/reconnect, tagged command queuing) Support for 255 simultaneous active SCSI commands per channel
SCSI termination:	Single-ended, active termination
SCSI channels:	Two fully independent PCI SCSI channels bridged to system PCI bus
Device support:	Up to 14 devices for the AHA-3940AU; up to 30 devices for the AHA-3940AUW
Operating system support:	DOS, Windows <sup>®</sup> , Windows 95, Windows NT, Windows for Workgroups, OS/2 <sup>®</sup> , NetWare <sup>®</sup> , UNIX (SCO <sup>®</sup> , UnixWare)
Regulatory compliance:	FCC class B, CE, IEC
Warranty:	5 years
Note:	PCI 2.1 compliant system BIOS support required. Check with PC manufacturer or BIOS vendor for details.

## Physical and Environmental Specifications

Length:	6.875 inches (17.463 cm)
Height:	4.0 inches (10.16 cm)
Operating temperature:	-5°C to 60°C
Storage temperature:	-60°C to 95°C
Relative operating humidity:	10% to 95% non-condensing
Power requirements:	5 V ± 5% at 2.0 amps maximum
Mean time between failure (MTBF):	
AHA-3940AU:	318,895 hours
AHA-3940AUW:	278,789 hours

