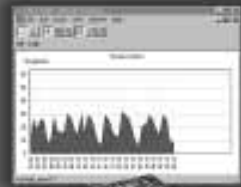


AHA[®]-2940UW DUAL FAMILY

Premium PCI-to-Ultra SCSI Performance and Easy Connectivity



Product Highlights

- Two independent 20 MIPS processors for isolation of internal and external devices
- Double the aggregate data transfer rate: up to 40 MByte/sec for internal devices and 40 MByte/sec for external devices (AHA-2940UW Dual/WE)
- Support for up to 15 external and 15 internal devices (AHA-2940UW Dual/WE)
- Double the cable length: 3 meters for internal devices and 3 meters for external devices

Overview

The AHA-2940UW Dual PCI-to-Ultra SCSI host adapters integrate two processors on a single chip: one dedicated to internal SCSI devices and one dedicated to external SCSI devices. This unique dual-processor architecture adds up to multiple advantages: double the peak throughput between SCSI peripherals and the PCI bus; double the maximum peripheral connections; simultaneous use of all three board connectors; twice the cable length for more configuration flexibility; and improved ease-of-use.

Key Benefits

Premium Dual-Processor Performance
The AHA-2940UW Dual host adapters feature two independent 20 MIPS RISC processors that regulate high-speed data transfer over the Ultra SCSI bus. By dedicating separate processors to external and internal devices, these host adapters effectively double the maximum throughput. The AHA-2940UW Dual/NE host adapter delivers data transfer rates up to 40 MByte/sec for internal devices plus 20 MByte/sec for external devices. Featuring a 16-bit Wide interface internally and externally, the AHA-2940UW Dual/WE host adapter achieves data rates up to 40 MByte/sec for internal devices plus 40 MByte/sec for external devices.

Added Flexibility and Mistake Resiliency
These dual-processor host adapters extend connectivity beyond the limits of single-processor host adapters.

Providing independent internal and external cabling, they effectively double the maximum cable length – 3 meters for internal devices plus 3 meters for external devices. They can also connect many more peripherals, up to 15 internal and 15 external SCSI devices. All this extra cabling headroom means the potential for cabling headaches is greatly reduced.

Cabling Simplicity and System Safety

With the AHA-2940UW Dual host adapters, adding peripherals is simple and safe. Internal and external cabling is completely independent, so users don't have to open up the system box when adding external devices. Since all three board connectors can be used simultaneously, the need for expensive, unreliable, and often hard-to-find cable adapters is eliminated in most configurations. And because internal and external devices are completely isolated, out-of-spec external cables or devices won't necessarily crash the system, which can result in time-consuming technical assistance calls.

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-2940UW Dual host adapters are fully compatible with all popular desktop and network operating systems.

AHA-2940UW DUAL FAMILY

Adaptec, Inc.
691 South Milpitas Boulevard
Milpitas, California 95035
Tel: (408) 945-8600
Fax: (408) 262-2533

Adaptec Europe - Belgium
Tel: (32) 2-352-34-11
Fax: (32) 2-352-34-00

Adaptec Japan - Tokyo
Tel: (81) 3-5365-6700
Fax: (81) 3-5365-6950

Adaptec Singapore
Tel: (65) 278-7300
Fax: (65) 273-0163

Literature:
1-800-934-2766 (USA and Canada)
or (510) 732-3829

Pre-Sales Support:
1-800-442-7274 (USA and Canada)
or (408) 957-7274

World Wide Web:
<http://www.adaptec.com>
Internet ftp server: [ftp.adaptec.com](ftp://ftp.adaptec.com)
Adaptec USA Bulletin Board
Service (BBS): (408) 945-7727
(up to 28,800 baud, using 8 bits,
1 stop bit, no parity)

Interactive Fax: (303) 684-3400



Copyright © 1997 Adaptec, Inc. All rights reserved. Adaptec, the Adaptec logo, AHA, and SCSISelect, are trademarks of Adaptec, Inc., which may be registered in some jurisdictions. Microsoft, Windows and Windows NT are registered trademarks of Microsoft Corporation, used under license. All other trademarks used are owned by their respective owners.

Information supplied by Adaptec, Inc., is believed to be accurate and reliable at the time of printing, but Adaptec, Inc., assumes no responsibility for any errors that may appear in this document. Adaptec, Inc., reserves the right, without notice, to make changes in product design or specifications. Information is subject to change without notice.

P/N 980353-021 12/97 Printed in U.S.A.

Technical Specifications

Computer Bus:	PCI 2.1 compliant local bus
Interface Protocol:	Bus master DMA
Host Bus Burst Data Rate:	133 MByte/sec
Peripheral Bus:	8-bit and 16-bit Wide Ultra SCSI
SCSI Synchronous Data Rate:	
AHA-2940UW Dual/NE	Up to 40 MByte/sec for internal devices and 20 MByte/sec for external devices
AHA-2940UW Dual/WE	Up to 40 MByte/sec for internal devices and 40 MByte/sec for external devices
SCSI Asynchronous Data Rate:	6 MByte/sec
Device Protocol:	SCSI-1, SCSI-2, SCSI-3 (Ultra SCSI)
Advanced SCSI Features:	Multithreaded I/O (up to 255 tasks simultaneously) Scatter-gather Disconnect/reconnect Tagged command queuing Synchronous and asynchronous data transfer
Connectors:	
AHA-2940UW Dual/NE (Narrow External Connector)	Internal high density 68-pin, internal 50-pin, external high density 50-pin
AHA-2940UW Dual/WE (Wide External Connector)	Internal high density 68-pin, internal 50-pin, external high density 68-pin
Hard Disk Capacity:	Extended translation supports drive capacity up to 8 GBytes per disk
Device Support:	
AHA-2940UW Dual/NE	Up to 15 internal devices and 7 external devices
AHA-2940UW Dual/WE	Up to 15 internal devices and 15 external devices
Electrical Termination:	Automatic, active, programmable via SCSISelect®
Operating Environment:	Microsoft® Windows® 3.1, 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

Length:	6.875 inches (17.46 cm)
Height:	4.2 inches (10.67 cm)
Operating Temperature:	0°C to 55°C
Storage Temperature:	-55°C to 85°C
Humidity (operating):	10% to 90%, non-condensing
MTBF*:	

AHA-2940UW Dual/NE	350,569.1 hours
AHA-2940UW Dual/WE	328,057.8 hours

*per Bellcore TR-NWT-000332, Issue 4, Method 1

