adaptec

ADAPTEC®

AHA®-1540 Family

Connect any SCSI peripheral to any PC

Overview

For compatibility and ease of use, the AHA-1540 family of ISA-to-Fast SCSI host adapters is the ideal connection for the widest choice in SCSI peripherals. Rigorously tested with more than 300 systems and peripherals from major manufacturers, these adapters are the recognized standard for SCSI compatibility.

Fully Windows® 95 and SCSI Plug-and-Play capable, the AHA-1540/1542 host adapters also set the standard for ease of use. Configuration of the adapters is automatic in any Plug-and-Play system.

Key Benefits

Unmatched compatibility
The AHA-1540/1542 host adapters connect up to seven SCSI devices to any PC. Designed for computers with standard ISA or EISA expansion slots, they are compatible with virtually any peripheral that complies with the SCSI-2 standard. Plus, they support all major operating systems — Windows 95, Windows NT™, DOS/Windows®, OS/2, UnixWare, and NetWare.

Easy Plug-and-Play installation
Installation of the AHA-1540/1542 host adapters and SCSI devices is quick and easy. Simply plug in the board, and resources are automatically assigned to ensure compatibility. Used with SCSI Plug-and-Play peripherals and cables, the AHA-1540 family adapters quickly locate all connected SCSI devices, instantly resolve any SCSI resource conflicts, and properly terminate the SCSI bus.

With Adaptec EZ-SCSI® software for DOS and Windows, SCSI devices can be installed in minutes following simple menu-driven instructions. Configuration settings can be quickly modified from the keyboard using the Adaptec SCSI*Select*® optimization utility.

Designed for multitasking
AHA-1540/1542 host adapters make multitasking truly efficient. A multi-threading, 10 MByte/sec Fast SCSI interface to the ISA bus enables seamless concurrent I/O operations. And bus master DMA takes over I/O processing and frees the CPU for other tasks.

Quality and reliability
As with all Adaptec products, AHA-1540/1542 host adapters have gone through thousands of hours of rigorous functional and environmental tests. Trusted for quality and reliability, Adaptec products are incorporated into the products of virtually all major system and peripheral manufacturers around the world.

The complete kit
The AHA-1542 kit provides everything necessary to add high-performance Plug-and-Play SCSI devices to PCs. It features the AHA-1542CP host adapter board with a floppy drive controller, complete user documentation, and Adaptec EZ-SCSI software on CD. Adaptec EZ-SCSI software applications enable users to create their own CDs, play audio and view photo CDs, perform tape backups, benchmark SCSI peripheral devices, and more.

COMPLETE KIT CONTENTS

- AHA-1542CP bus master host adapter board with floppy controller

- Drivers for Windows 95, Windows NT, Windows 3.1, OS/2 2.x and 3.x, and NetWare 3.x and 4.x

  - Adaptec EZ-SCSI software applications for DOS, Windows, Windows NT, Windows 95, and Windows for Workgroups

    – Includes applications such as: SCSI Backup™ * (Backup Basics), QuickScan, CD Player, Photo CD viewer (Magic Lantern™), Advanced Power Management, SCSI Interrogator™, SCSI Disk Partitioner, SCSI*Tutor*™, SCSIBench™

    – Provides device support for hard disks, scanners, removable disks, and MO, CD-ROM, CD-Recordable, and tape drives

  - Standard 3-position internal SCSI ribbon cable

- Complete user documentation

*Windows 95 only

TECHNICAL SPECIFICATIONS

Computer Bus:	ISA
Interface Protocol:	Bus master DMA
Host Bus Burst Data Rate:	10 MByte/sec
Peripheral Bus:	8-bit SCSI
SCSI Synchronous Data Rate:	10 MByte/sec
SCSI Asynchronous Data Rate:	3 MByte/sec
Device Protocol:	SCSI-1, SCSI-2
Advanced SCSI Features:	-Advanced SCSI Programming Interface (ASPI) compliant
	-Multithreaded I/O
	-Scatter-gather
	-Disconnect/reconnect
	-SCSI plug and play
	-Synchronous and asynchronous data transfer
External Connector:	50-pin, high density
SCSI Termination:	Single-ended, active, programmable via SCSI*Select*
Hard Disk Capacity:	Up to 8 GBytes per disk
Device Support:	Up to 7 devices under DOS 5.0 and above
Operating Environment:	Microsoft® Windows 95, Windows 3.1, Windows NT, Windows for Workgroups, DOS, IBM OS/2 2.x and 3.x, Novell NetWare 3.12 and 4.x, SCO Unix 3.2.x, UnixWare 1.x and 2.x, Banyan Vines, and Sunsoft Solaris
Floppy Drive Support:	AHA-1542 adapter only; supports two floppy drives (3.5 in. and 5.25 in.)

PHYSICAL AND ENVIRONMENTAL SPECIFICATIONS

Length:	6.3 inches (16.5 cm)
Height:	4.5 inches (11.4 cm)
Operating Temperature:	0° C to 55° C
Storage Temperature:	-55° C to 85° C
Humidity (operating):	10% to 90%, non condensing
MTBF (AHA-1540):	376,130 hours (Bellcore TR-NWT-000332, Method I, QL-I)
Power Requirements:	+5.0 ± 0.25 volts at 0.51 amps, excluding terminator power