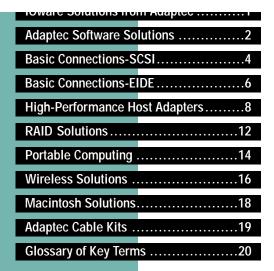
A Complete Guide to Adaptec Kit Ind Software



Enabling Powerful Applications





IUware[®] Solutions From A d a p t e c

Adaptec, an industry leader in input/output (I/O) technologies, develops and markets a comprehensive family of I/O technology solutions — collectively called I O w a re products. Adaptec IOware solutions combine both high-p e r f o r m a n c e I/O hard w a re and intelligent software to optimize data flow between personal computers and peripherals, improving overall system performance.

Adaptec pioneered the I/O technology known as SCSI (Small Computer System Interface). Today, SCSI technology is more critical than ever to successfully implement a range of popular applications on personal computers.

The Adaptec family of SCSI host adapter kits — I/O choices for a wide variety of applications

With today's fast microprocessors, sophisticated software applications and wide range of peripherals, SCSI technology is key to alleviating I/O bottlenecks inherent to personal computers.

Increased performance. SCSI solutions eliminate the I/Obottlenecks that occur when files are transferred from peripherals to system processors.

Multitasking. SCSI can manage and prioritize multiple requests from peripherals, and direct traffic through the I/Obus, delivering true multitasking performance and increasing overall system throughput.

Easy connection to diverse peripherals. SCSI overcomes limits to the number of peripherals, the size of hard drives, and the number of available slots in a computer. Awide variety of up to seven peripherals can be connected in any combination to a single SCSI host adapter.

Adding peripherals with ease. With Adaptec[®] EZ-SCSI[®] software, adding peripherals takes only minutes.

Support for both internal and external peripherals. Only the SCSI interface allows for connection to external peripherals for maximum flexibility.

Adaptec's comprehensive family of SCSI host adapters are ideal for a wide range of applications from multitasking and multimedia, to image management and desktop publishing. Solutions range from simple connectivity products for single-user and small office desktops, to intelligent subsystem, high-performance SCSI and RAID p roducts for enterprise-wide computing and networked enviro n m e n t s .

Adaptec Software Solutions

ptimizing SCSI Peripherals

Adaptec IOware products reflect the integration of high-performance I/O hardware and intelligent I/Osoftware for a systems approach to optimize data flow between personal computers and peripherals.

The software component of Adaptec IOware products meets the interface demands of diverse operating systems such as DOS, Wi n d o w s $^{\circ}$, UNIX, Windows 95, NetWare, OS/2 and Windows NT. This ensures performance, compatibility and connectivity - now and in the future.

Benefits of Adaptec software solutions include:

- Easy to use and install.
- Connectivity to most SCSI peripherals.
- Application software to optimize SCSI peripherals.

daptec EZ-SCSI Software

Adaptec simplifies SCSI with Adaptec EZ-SCSI 4.0 software. EZ-SCSI software is a user-friendly, Windows-based suite of 32-bit applications that allow easy connection and management of a full range of SCSI peripherals. EZ-SCSI softw a re also includes a selection of SCSI tools that help maximize the power of your system, enhance your system's performance, and get more out of your SCSI peripherals. EZ-SCSI supports Windows 95 and Windows NT, with backw a rd compatibility to Windows 3.1.

Adaptec EZ-SCSI software includes:

- Adaptec Backup[™] Point-and-click simplicity to select volume, directory or file for backup.
- CD Player Easily play audio CDs with Windows access to the CD audio control panel.
- Photo CD Viewer View and edit photographs stored on CD-ROM.
- CD Writer and Copier Master and duplicate personal CDs
- SCSI Explorer Includes Power Management, SCSI Interrogator[™] and Read/Write Cache Utility, to optimize system configuration.

immediate viewing.

• SCSITutor[™] - On-line tutorial with answers to the most frequently asked questions about SCSI.

• Japanese, French, German, Spanish and Portuguese language versions soon available.

Adaptec EZ-SCSI Lite Software

Acustomized version of Adaptec EZ-SCSI software for Adaptec A l t r a^{∞} line pro du c t s.EZ-SCSI Lite is a user-friendly Windows-based application program that allows easy connection of SCSI peripherals in Windows. The software is menu driven and provides all that is necessary to install, config u re and use a variety of SCSI peripherals.

SCSI Select® Optimization Utility

ABIOS-resident configuration and optimization utility that eliminates the need to handle jumpers and termination resistors while installing the board or adding peripherals. The software also has a diagnostic test, SCSI disk formatter and a disk media verifications test. In addition, it reports the status of the host adapter BIOS, firmware and all attached SCSI devices.

Adaptec CI/O[™] Software

Atool that remotely monitors and manages all SCSI devices connected to servers. Running on a Windows client, the software will support any size network from a single local server to a global network. Adaptec CI / Ointegrates with HP OpenView management tools.

Remus[™] and Remus Lite

RAID Disk Array Software for the Macintosh O/S combines multiple hard drives into a disk array, providing greater speed for disk-intensive applications such as desktop publishing and digital video. The perfect software solution for keeping critical data safe from drive failures. Supports RAID levels 0, 1, 4 and 5 for full data protection. Lite version supports RAID level 0 and 1 only. Works with any combination of SCSI hard drives to improve performance and data integrity.

Sasic Connections-SUSI

Adaptec provides basic connections that are innovative, economical and expandable. Designed for single-user, small-office environments with all the advantages of SCSI device connectivity, compatibility, and seamless installation, in one source.

Benefits of Adaptec SCSI host adapters for basic connections include:

Adaptec connectivity and compatibility at an affordable price.

PIO data transfer for optimal performance in the desktop environment.

Adaptec EZ-SCSI Lite or Adaptec EZ-SCSI software, the all-in-one solution for quick and easy management of SCSI peripherals.

asic SCSI Host Adapter Kits: otalCD[™] (AVA[™]-1505 Kit)

Designed for easy connectivity to virtually any CD-ROM.

- 16-bit, ISA-to-SCSI-2 host adapter.
- Engineered to accommodate virtually all SCSI-2 CD-ROM drives.

otalConnect[™] (AVA-1515 Kit)

The affordable ISAconnectivity solution for multiple peripherals.

- 16-bit, ISA-to-SCSI-2 host adapter with BIOS.
- On bo a rd BIOS, supports boot capability directly from a SCSI hard disk drive.

otalAdvantage[™] VL (AVA-2825VL Kit)

Combines Fast SCSI-2 and EIDE on a single VL card for maximum connectivity in a single slot.

- 32-bit, VL-to-Fast SCSI-2 and VL-to-EIDE host adapter with floppy.
- Supports up to 12 internal and external peripherals (seven SCSI, two standard or EIDE, two standard floppy and one floppy tape drive).
- \bullet FLEXI-Driver* software to optimize EIDE hard disk drive performance.
- Includes SCSISelect configuration utility which eliminates the need to handle jumpers and termination resistors.



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SCSI peripheral connections for PC desktops and file servers.

- 16-bit, ISA-to-Fast SCSI-2 host adapter.
- O n b o a rd BIOS, supports boot capability directly from a SCSI hard disk drive.

Product Number	AVA-1505 Kit	AVA-1515 Kit	AVA-2825VL Kit	AHA-1522A Kit	
Product Name	TotalCD	TotalConnect	TotalAdvantage VL	SCSI Direction	
Host Bus	ISA	ISA	VL	ISA	
Host Bus Width	16-bit	16-bit	32-bit	16-bit	
Device Support	7	7	12	7	
Operating System Software	DOS/Windows only	DOS/Windows only	DOS/Windows only	DOS/Windows NT/OS/2/NetWare	
SCSI Transfer Rate	up to 5 MB/sec	up to 5 MB/sec	SCSI-up to 10 MB/sec EIDE-up to 16.6 MB/sec	up to 10 MB/sec	
Added Features	N/A	On-board BIOS	On-board BIOS SCSI & EIDE	On-board BIOS Floppy support	
Included Software	EZ-SCSI Lite	EZ-SCSI Lite	EZ-SCSI <i>Lite</i> FLEXI-Driver	EZ-SCSI	
External SCSI Connector*	DB 25-pin	DB 25-pin	50-pin HD	50-pin Centronics	

ee Adaptec cable kit chart

Sasic Connections - EIDE

Adaptec provides affordable basic connections for EIDE devices. The Future Domain[®] VALUEPAK[™] line of Enhanced IDE host adapters has been specifically designed for the small-office, home-office environment.

B e n e fits of the VA L U E PAK line of EIDE host adapters for basic connections include:

PIO data transfer for optimal performance in the desktop environment.

PowerIDE! software - a full-featured I/O Manager for EIDE hard disk and CD-ROM.

MCS CDMaster and Image Pals for robust Windows CD play and image management applications.

asic EIDE Host Adapter Kits: nhanced IDE CD-ROM Kit (EIDE-CD Kit)

Aconvenient ISAconnectivity solution for up to two EIDE CD-ROM drives.

- 16-bit, ISA-to-IDE host adapter.
- 32-bit disk and file access to run multiple applications faster on EIDE peripherals.
- Host adapter with audio pass-through and an MPC-2 audio cable.

nhanced IDE-AT32 VALUEPAK[™] (EIDE-AT32 VP Kit)

Additional connectivity with a dual-channel ISAcard for up to four EIDE peripherals.

- 16-bit/32-bit ISA-to-EIDE dual-channel host adapter.
- Double word (32-bit) data transfers for accelerated data transfers of up to 46% faster than standard IDE.
- Includes support for hard disk and CD-ROM drives.
- On-board BIOS to boot from a secondary EIDE hard disk drive.
- Support for drives greater than 528 MBs.

nhanced IDE-AT42 VALUEPAK[™] (EIDE-AT42 VP Kit)

All of the features of the Enhanced IDE-AT32 VALUEPAKKit with the addition of floppy support.

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High-performance upgrade kit - Connect up to four EIDE peripherals while upgrading serial and parallel ports.

- 32-bit, VL-to-EIDE host adapter.
- Enhanced Parallel Port (EPPand ECP) for printer data transfers of up to 2 MB/sec.
- On-board BIOS to boot from a secondary EIDE hard disk drive.
- 32-bit disk and file access to run multiple applications faster on EIDE peripherals.

Product Number	EIDE CD-Kit	EIDE-AT32 VP Kit	EIDE-AT42 VP Kit	EIDE-VL VP Kit
Product Name	Enhanced IDE CD-ROM	Enhanced IDE-AT32 VALUEPAK	Enhanced IDE-AT42 VALUEPAK	Enhanced IDE-VL VALUEPAK
Host Bus	ISA	ISA	ISA	VL
Host Bus Width	16-bit	16-bit/32-bit*	16-bit/32-bit*	32-bit
Device Support	2	4	4	4
Operating System Support	DOS/Win, Win 95/NT, OS/2, NetWare	DOS/Win, Win 95/NT, OS/2, NetWare	DOS/Win, Win 95/NT, OS/2, NetWare	DOS/Win, Win 95/NT, OS/2, NetWare
Added Features		On-board BIOS	On-board BIOS Floppy support	On-board BIOS Floppy support
Included Software	PowerIDE!	PowerIDE!	PowerIDE!	PowerIDE!

*double-word data transfers

High-Performance Host A d a p t e r s

For today's performance PC users who need fast processors, a lot of memory, large hard drives, and a multitasking OS, SCSI is the key to ensuring that I / O keeps pace with overall system performance.

Benefits of Adaptec SCSI host adapters in high-performance computing applications include:

Bus mastering data transfer methodology allowing the system to offload I/O processing to the host adapter, freeing the system's CPU and accelerating application access and information handling.

Enhanced performance in multitasking environments such as OS/2, Windows 95, Windows NT, NetWare, and UNIX by managing multiple requests from peripherals, increasing overall system throughput.

Easy system expansion for multitasking operating systems and large applications.

Adaptec EZ-SCSI software, the all-in-one solution for quick and easy management of SCSI peripherals.

Adaptec CI/Osoftware allowing remote management of any network from a local server to a network of up to 100 servers.

igh-Performance Host Adapter Kits: CI SCSI Master[™] (AHA-2940 Kit)

Combines PCI technology with Adaptec's PhaseEngine $^{\circ}$ RISC processor, for improved I/Operformance.

- 32-bit, PCI-to-Fast SCSI-2 host adapter.
- Designed for use with PCI 2.0-compliant systems.
- Includes SCSISelect configuration utility which eliminates the need to handle jumpers and termination resistors.
- Japanese, French and German language versions available.

Combine the power of PCI with Wide UltraSCSI for the maximum performance on your system - get twice the connection and four times the performance.

- 32-bit, PCI-to-Fast SCSI-2 host adapter.
- Provides backward compatibility to support any SCSIdevice from Wide UltraSCSI to legacy Fast, Fast and Wide, and non-wide Ultra devices.
- Provides connectivity for both 8-bit and 16-bit SCSI devices for maximum configuration flexibility.
- Supports up to 15 Wide SCSI devices simultaneously.
- S C S Itransfer rate up to 40 MB/sec.
- PCI Differential Adapter (AHA-2944W Kit) available specifically for support of Wide diff e rential SCSI devices up to 25 meters away from the host adapter.

PCI MultiChannel[™] SCSI (AHA-3940 Kit)

Increases I/Operformance in today's demanding servers by combining the power of two independent processors in a single SCSI card.

- 32 bit, PCI-to-Fast SCSI-2 host adapter.
- SCSI transfer rate up to 20 MB/sec (2x10MB/sec).
- Supports up to 14 Fast SCSI-2 devices, 7 devices per SCSI channel.
- Includes SCSISelect configuration utility which eliminates the need to handle jumpers and termination resistors.
- Includes Adaptec CI/Osingle-server software.

PCI MultiChannel Wide SCSI (AHA-3940W Kit)

This server solution supports Fast andWide SCSIperipherals utilizing two independent SCSI channels in one PCI slot.

- 32-bit, PCI-to-Fast and Wide SCSI-2 host adapter.
- SCSI transfer rate of up to 40 MB/sec (2x20MB/sec).
- Supports up to 30 SCSI devices.

Combines the VL-bus with Adaptec's PhaseEngine RISC processor, for improved I/Operformance.

- 32-bit, VL-to-Fast SCSI-2 host adapter.
- Includes SCSISelect configuration utility which eliminates the need to handle jumpers and termination resistors.

ISA SCSI Master® II (AHA-2742AT Kit)

Combines EISAbus with Adaptec's PhaseEngine RISC processor, for improved I/ Operformance.

- 32-bit, EISA-to-Fast SCSI-2 host adapter.
- Supports up to 14 Fast SCSI-2 devices on a single TwinChannel® host adapter.

ISA Wide SCSI[™] (AHA-2742W Kit)

For higher levels of performance with EISA and Fast Wide SCSI drives, use EISA Wide SCSI with increased bandwidth on the SCSI bus.

- 32-bit, EISA-to-Fast Wide SCSI host adapter.
- Supports up to 15 Wide SCSI devices simultaneously.
- SCSI transfer rate up to 20 MB/sec.
- EIS AD i fferential Adapter (AHA-2744W Kit) available specifically for support of Wide diff e rential SCSI devices up to 25 meters away from the host adapter.

CSI Master[™] (AHA-1542CP Kit)

The industry standard high-performance ISAsolution with SCSI Plug-and-Play support. Features compatibility and ease of use.

- 16-bit, ISA-to-Fast SCSI-2Plug and Play host adapter.
- Fully backward compatible with previous AHA-154X products.
- Sets the standard for SCSI compatibility with added support for Windows 95.
- Includes SCSISelect optimization utility which eliminates the need to handle jumpers and termination resistors.

CSI Channel[™] (AHA-1640 Kit)

Features multitasking performance for Micro Channel environments.

- 16-bit, Micro Channel-to-SCSI-2 host adapter.
- Designed to work with IBMPS/2 models 50, 55SX, 50X, 60, 70, 80, 90 and 95.

	7117-274V IVIL		ALIA-3740 KIL	
Product Name	PCI SCSI Master	PCI Ultra Wide SCSI	PCI MultiChannel	PCI MultiChannel Wide SCSI
Host Bus	PCI	PCI	PCI	PCI
Host Bus Width	32-bit	32-bit	32-bit	32-bit
Device Support	7	15	14 (7 per channel)	30 (15 per channel)
SCSI Transfer Rate	up to 10 MB/sec	up to 40 MB/sec	up to 20 MB/sec	up to 40 MB/sec
Localized Version*	Japanese, French, German	N/A	N/A	N/A
Floppy Support**	N/A	N/A	N/A	N/A
External SCSI Connector***	50-pin HD	68-pin WIde	50-pin HD	68-pin Wide

Product Number	AHA-2842A Kit	AHA-2742AT Kit	AHA-2742W Kit	AHA-1542CP Kit	AHA-1640 Kit
Product Name	VL SCSI Master	EISA SCSI Master II	EISA Wide SCSI	SCSI Master	SCSI Channel
Host Bus	VL	EISA	EISA	ISA	MCA
Host Bus Width	32-bit	32-bit	32-bit	16-bit	16-bit
Device Support	7	14	15	7	7
SCSI Transfer Rate	up to 10 MB/sec	up to 10 MB/sec	up to 20 MB/sec	up to 10 MB/sec	up to 5 MB/sec
Localized Version*	Japanese	Japanese	N/A	Japanese French German	N/A
Floppy Support**	Yes	Yes	Yes	Yes	N/A
External SCSI Connector***	50-pin HD	50-pin HD	68-pin Wide	50-pin HD	50-pin HD

* Japanese version kits run under DOS/V Japanese OS. Spanish and Portuguese localized versions available for AHA-1542CF kit.
 ** PCIspecification does not allow for floppy support on the host adapter.
 *** See Adaptec cable kit chart.

**** Requires PCI bridge support on the motherboard bios.

KAID Solutions

ARAID (Redundant Array of Inexpensive Disks) system can protect data integrity and dramatically improve performance compared to standalone drives. Adaptec's low-cost, high-performance PCI RAID adapters for entry-level and midrange servers deliver real-time data recovery beyond tape backup for uninterrupted data access.

Benefits of Adaptec RAID adapters in fault tolerant computing include:

- ► Support for multiple RAID levels 5, 1, 0, 0/1 over four arrays to meet specific requirements
- ► Leading edge PCI-to-PCI bridge design allows RAID adapters to transfer data between the three SCSIchannels, RAID coprocessor and host system memory at a burst rate of up to 133 MB/sec.
- On-board RISC-based RAIDcoprocessor offloads all RAID 5 parity calculations from host server CPU.
- Supports hot-swappable drives without interrupting data access.
- ► Supports on-line hot-spare drives with auto rebuild.
- ► Includes custom RAID software and Adaptec CI/O software for remote status and performance monitoring of disk arrays and non-disk peripherals.
- Unmatched scalability for additional performance and capacity.

RAID Adapter Kits:

PCI MultiChannel[™] RAID (AHA-3985 Kit)

Utilizes innovative multi-processing RAID architecture to deliver highperformance data transfer with fault-tolerant disk storage.

- 32-bit, PCI-to-SCSI RAID adapter.
- · Connects up to 21 SCSI devices over 3 RISC-based PCI-to-SCSI channels
- SCSI transfer rate up to 30 MB/sec.

olutions

PCI Wide MultiChannel RAID (AHA-3985W Kit)

Combines real-time data protection with the highest levels of scaleable performance and connectivity.

- 32-bit, PCI-to-SCSI RAID adapter.
- · Connects up to 45 SCSI devices over 3 RISC-based PCI-to-SCSI channels
- SCSI transfer rate up to 60 MB/sec.

Product Number	AHA-3985 Kit	AHA-3985W Kit
Product Name	PCI MultiChannel RAID	PCI Wide MultiChannel RAID
Host Bus	PCI	PCI
Host Bus Width	32-bit	32-bit
Device Support	21	45
Operating System Support	NetWare	NetWare
SCSI Transfer Rate	up to 30 MB/sec	up to 60 MB/sec
Included Software	Adaptec CI/O single-server	Adaptec CI/O single-server
External SCSI Connector*	50-pin HD	68-pin Wide

*see Adaptec cable kit chart

Portable Computing

With SCSI connections, portable computer users now have access to the same sophisticated peripherals as desktop users. From sales presentations to remote access, from databases to diagnostic testing, portable solutions that include SCSI peripherals are indispensable. These portable host adapters are lightweight, yet rugged enough to survive in the challenging portable enviro n m e n t.

Benefits of Adaptec portable SCSI adapters in portable computing include:

- Quick connectivity to high-performance SCSI peripherals through PCMCIA slots, parallel ports, or infrared.
- ► File transportability between desktop and portable systems with simple SCSI connections to removable and optical storage devices.
- Increased storage capacity, as needed, for large files and applications.
- Adaptec EZ-SCSI software, the all-in-one solution for quick and easy management of SCSIperipherals.

Portable Adapter Kits: SlimSCSI[®] (APA[™]-1460 Kit)

APCMCIAsolution that provides an instant high-performance connection to a wide range of powerful peripherals. Includes detachable 3-foot cable.

- 16-bit, PCMCIA-to-Fast SCSI-2 host adapter.
- Compatible with PCMCIAType II, III and "Type IV" slots.
- Features data transfer rates of up to 10 MB/sec on the SCSI bus.
- Reliable, seven-peripheral daisy-chain with fully shielded, 32-wire cable.
- Low 0.3-watt standby power consumption for longer battery life.

Simple external plug-in connector, perfect for portable or desktop PCs without giving up use of the printer port. Convenient, integrated 3-foot cable.

- Parallel-to-SCSI adapter.
- Compatible with uni-directional and bi-directional ports.
- Features data transfer rates of up to 260 KB/sec.
- Simultaneous parallel port pass-through with no performance degradation.

MiniSCSI EPP (APA-358 Kit)

All of the features of MiniSCSI Plus with increased performance up to 1 MB/sec for computers that support Enhanced Parallel Port (EPP).

- Parallel-to-SCSI adapter.
- Compatible with uni-directional, bi-directional and EPPports.
- Features data transfer rates of up to 1 MB/sec.

Product Number	APA-1460 Kit	APA-348 Kit	APA-358 Kit	
Product Name	SlimSCSI	MiniSCSI Plus	MiniSCSI EPP	
Host Bus	PCMCIA	Parallel Port	Parallel Port	
Host Bus Width	16-bit	8-bit	8-bit	
Device Support	7	7	7	
Data Transfer Rate	2 MB/sec	260 KB/sec	1 MB/sec	
Included Software	EZ-SCSI	EZ-SCSI	EZ-SCSI	
Operating System Support	DOS/Windows NT/OS/2**	DOS/Windows/ NT/OS/2	DOS/Windows/ NT/OS/2	
External SCSI Connector*	50-pin Centronics	50-pin Centronics	50-pin Centronics	

* See Adaptec cable kit chart

** Supports Windows NT 3.51 and OS/2 WARPonly

W1 reless Solutions

Infrared technology offers freedom to users who want to take advantage of powerful mobile computing devices by unchaining users from their desktops and network cables.

With Adaptec wireless solutions, portable PC users now have the convenience of cordless connectivity and mobility with the power of a desktop computer. These solutions provide simple, quick file synchronization, file transfer and printing with stand alone or networked systems without connecting any cables.

Benefits of Adaptec infrared solutions for wireless computing include:

Easy to use; just point the notebook's infrared port at the infrared adapter, and click to transfer files.

- ▶ IrDA-compliant for compatibility with virtually all infrared-enabled PCs.
- Supports speeds of 9.6K up to 115K bps.
- Includes TranXit^{**} file transfer and synchronization software for easy data exchange.
- Connects to PC serial port for simple installation.
- Custom lens and advanced power options increase operating range from 1 to 2 meters.

Enables wireless printing for greater flexibility.

Provides an infrared connection to other IrDA-compliant infrared enabled devices (i.e. printers).

Infrared Adapter Kits: AIRport 1000 (APA-9310 Kit)

Pocket-sized infrared adapter for notebook PCs

- Serial (COM) port-to-Infrared (wireless) port.
- Transfer data up to one meter between systems using power from the serial port.

AIRport 2000 (APA-9320 Kit)

External infrared adapter for desktop PCs, complete with file transfer and synchronization software, for easy, wireless file transfer with infrared-enabled, portable computers.

- Serial (COM) port-to-Infrared (wireless) port.
- Three power options for flexibility serial port, AC adapter, or battery.
- Dual-position design for maximum convenience straight or flat.
- Double the data transfer range to two meters by adding batteries or an AC adapter.

AIRport 2500 (APA-9320/9310 Kit)

All-in-one desktop and notebook infrared kit.

• All the features and benefits of AIRport 1000 and AIRport 2000 kits.

FEATURES	AIRport 1000	AIRport 2000	AIRport 2500	
Infrared-enabled	Notebooks	Desktops	Notebooks & Desktops	
IrDA-standard	Yes	Yes	Yes	
9.6K to 115.2K bps	Yes	Yes	Yes	
Power options	Com Port only	Com, AC and Battery	Com, AC and Battery	
9 to 25-pin serial port converter	No	Yes	Yes	
Included Software	TranXit	TranXit	TranXit	

Macintosh Solutions

Power Macintosh[™] users can now take full advantage of the benefits of Fast and Wide SCSI-2 peripherals and RAIDsolutions with Adaptec's hard w a re and software created exclusively for the Power Macintosh with PCI.

Benefits of Adaptec hardware and software for the Power Macintosh include:

- Increased performance and storage capacity for publishing, prepress, digital video, multimedia, and other data- and graphics-intensive applications.
- Easy-to-use and install.
- Hardware and software solutions to optimize performance and flexibility.

Power Macintosh Kits: PowerDomain[™] 2940W (AHA-2940W MAC Kit)

AFast and Wide PCI-to-SCSI accelerator for the Power Macintosh with PCI.

- Supports any combination of up to 15 SCSI-1, SCSI-2, or SCSI-3 devices.
- Independent negotiation of high-speed data transfers with each peripheral device.
- Bus mastering data transfer methodology allowing the system to offload I/O p rocessing to the accelerator, freeing the system's CPU and accelerating application access and information handling.

Remus[™] and Remus Lite (ASW-Remus and ASW-Remus Lite)

RAID Disk Array Software for the Macintosh O/S combines multiple hard drives into a disk array, providing greater speed for disk-intensive applications such as desktop publishing and digital video. The perfect software solution for keeping critical data safe from drive failures.

- Supports RAID levels 0, 1, 4 and 5 for full data protection.
- · Works with any combination of SCSI hard drives
- Improves performance and data integrity.
- Lite version supports RAID level 0 and 1 only.

Adaptec Cable Kits

Adaptec adapters support different levels of SCSI including SCSI-1, SCSI-2, Fast SCSI-2, Wide and diff e rential. Our optional cable kits offer numerous connectivity solutions with our adapters and a wide variety of peripherals.

CABLE TYPE	ADAPTEC PART NUMBER
EXTERNAL 50-Pin Centronics to Centronics SCSI Cable. (Low to Low or SCSI 1 style) 1 meter (approx. 3 ft)	ACK-L2L
EXTERNAL 50-Pin High Density to 50 Pin Centronics SCSI Cable. (SCSI 2 to SCSI 1 style) 1 meter (approx. 3 ft)	ACK-H2L
EXTERNAL 68-Pin High Density Wide SCSI Cable 1 meter (approx. 3 ft)	ACK-W2W-E
EXTERNAL 68-Pin High Density Wide to 50 Pin High Density SCSI Adapter ONLY - No Cable (male to female)	ACK-68P-50P-E
INTERNAL 68-Pin High Density Wide SCSI Cable 5 position (4 16 bit internal disk drives & 1 adapter) 1.8 meter (5 ft)	ACK-W2W-5I
INTERNAL 50-Pin SCSI Plug-and-Play Ribbon Cable for SCAM compliant drives ONLY with termination on the cable. 3 position (2 devices & 1 adapter) 1.0 meter (3 ft)	ACK-INT3-PNP
INTERNAL 50-Pin SCSI Ribbon Cable 5 positions (4 devices & 1 adapter) 1.8 meter (5 ft)	ACK-INT5
EXTERNAL 50-Pin High Density to 50 Pin Centronics SCSI Adapter ONLY - No Cable (male to female)	ACK-GCH2L
EXTERNAL 50-Pin High Density SCSI Cable 1 meter (approx. 3 ft) FOR THE APA-1460 ONLY	ACK-1460H

All cable and adapter kits are male-to-male unless otherwise stated

	SCSI DEVICE CONNECTORS						
ADAPTEC SCSI CONNECTORS	Ext-DB 25	Ext-50-Pin Cent.	Ext-50-Pin HD	Ext-68-Pin Wide	Ext-68 Pin Wide/Diff.	Int 68-Pin	Int 50-Pin
Ext-DB 25	*	*	*	N/A	N/A	N/A	*
Ext-50-Pin Cent. (APA-1460 only)	*	N/A	ACK-1460H	N/A	N/A	N/A	N/A
Ext-50-Pin Cent.	*	ACK-L2L	ACK-H2L/ ACK-GCH2L	N/A	N/A	N/A	*
Ext-50-Pin HD	*	ACK-H2L / ACK-GCH2L	*	N/A	N/A	N/A	*
Ext-68-Pin Wide	N/A	*	ACK-68P-50P-E	ACK-W2W-E	ACK-W2W-E	*	*
Ext-68-Pin Wide Differential	N/A	N/A	N/A	N/A	ACK-W2W-E	N/A	N/A
Int-50-Pin	*	*	*	N/A	N/A	N/A	ACK-INT5
Int-68-Pin Wide	N/A	*	*	*	N/A	ACK-W2W-5I	*
Int 68-Pin Wide Differential	N/A	N/A	N/A	*	*	ACK-W2W-5I	N/A

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GIOSSARY OF NEY JERMS

Bus Mastering: Direct Memory Access (DMA) is a high performance method of data transfer in which the host adapter's on-board processor handles the transfer of data directly to and from the computer's memory with very little intervention from the CPU. This is the fastest method for data transfer available for multitasking environments. Bus Master DMAtransfers leave the CPUfree to continue working while the data transfers are taking place in the background.

EIDE: An umbrella term used to describe all of the emerging specifications, features and technologies that stem from the original IDE interface.

EISA(Extended Industry Standard Architecture Bus): Acomputer bus standard compatible with ISA; a 32-bit data path. Up to 33 MB/sec data transfer rate.

Fast SCSI-2: Provides for performance and compatibility enhancements to SCSI-1, including a 16- or 32-bit data path. Also referred to as SCSI-2 or Fast SCSI, Fast SCSI-2 can increase SCSI's original synchronous data transfer speed up to 10 MB/sec.

I/O (Input/Output): Refers to an operation, program, or device whose purpose is to enter data into or to extract data from a computer.

Ir D A (Infrared Data Association): An association for development of standards for interoperability of infrare d technology for use in computers.

ISA(Industry Standard Architecture) Bus: IBM PC and compatible bus architecture with a 16-bit data path, up to 3 MB/sec data transfer rate with PIO and up to 10 MB/sec data transfer rate with bus mastering (DMA).

MCA(Micro Channel Architecture) Bus: IBM PS/2 (models 50-95) and compatible computers. Can be driven by multiple independent bus master processors. Up to 8 MB/sec data transfer rate.

Multichannel: Ac on figuration where multiple SCSI channels on a single host adapter operate simultaneously in a single computer system. Useful to increase the performance and fault tolerance of a system.

PCI (Peripheral Component Interconnect) Local Bus: Bus developed by Intel for attaching high speed peripheral devices to a computer system. 133 MB/sec data transfer rate.

PCMCIA(Personal Computer Memory Card International Association): Standard developed by an association for credit-card sized memory and I/O cards for portable computers.

PIO (Programmed Input/Output): Amethod of data transfer in which the host microprocessor transfers data to and from memory via the computer's I/O ports. PIO enables very fast data transfer rates, especially in single-tasking operating systems like DOS/Windows.

Plug and Play: Ah a rd w a re and software mechanism that provides an automatic way for the system to s e If - c o n fi g u re and optimally allocate system re s o u rces such as memory, I/O ports, IRQ, and DMAc h a n n e I s between Plug-and-Play cards and other devices in the system.

RAID (Redundant Array of Inexpensive Disks): The architecture which determines how redundancy is achieved and how data is distributed across the disk drives in a disk array.

SCSI (Small Computer System Interface): As t a n d a rd, intelligent, fast and multitasking I/O bus for connecting PCs and peripheral devices.

UltraWide: Provides performance up to 40 MB/sec, based on a 16-bit data bus.

VL-Bus (VESALocal Bus): Aspecification for a local-bus developed by the VESA(Video Electronics Standards Association) local bus committee. Up to 40 MB/sec data transfer rate.

Wide SCSI: Provides performance up to 20 MB/sec, based on a 16-bit data bus. Also known as SCSI-3.

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