

PCI-to-IDE Ultra ATA-133 Controller

User's Manual



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Chapter 1 Introduction

1.1 Introduction

ACARD AEC-6280 is a high performance PCI P&P bus master Ultra ATA-133 adapter and on board Flash BIOS that supports to boot from ATA device or Ultra ATA 100/66/33 and even ATA-133 hard drives.

ACARD AEC-6280 supports full featured PCI 32-bit bus master transfer capability including PCI enhanced data transfer commands (133MB/s) and Built-in Scatter/Gather function improves performance for multi-tasking OS.

1.2 Feature

- A standalone PCI-to-IDE controller
- Supports Ultra ATA 133/100/66/33 hard drive
- Supports ATAPI devices
- Data transfer rate up to 133MB/sec
- Cost effective and high performance

1.3 Packing List

When you open the ACARD AEC-6280 cabinet, check the following packing list.

- One ACARD AEC-6280
- One ATA-133 Cables
- One Y-splitter Cable for Power
- One User's Manual

1.4 Specification

Power requirement	-	voltage : 3.3V+/- 2%
		5V+/- 2%
		current : 0.5A Max.

- Environment Temperature Operating 0 °C to 70 °C Storage -20 °C to 85 °C
- Humidity 15% to 90%

		Models:	AEC-6280
Dimentions	-	Width:	14 cm
		Height:	4.7 cm

Connectors - Dual 40 pins IDE internal connectors

Chapter 2 Hardware Installation

2.1 ACARD AEC-6280 Board Layout:

IDE1: The Primary IDE port

IDE2: The Secondary IDE port



ATA-133 Cable Layout:



2.2 Installing the AEC-6280 IDE Adapter

- Step 1. Turn off the computer.
- Step 2. Plug out the power core and all the connection of external devices from your system.
- Step 3. Referring your original case user's manual to see how to open your case.
- Step 4. Select one unused PCI expansion slot of your computer. Unscrew the slot cover and remove it.



- Step 5. Remove the IDE host adapter from the anti-static bag and hold its metal bracket part.
- Step 6. Plug the AEC-6280 IDE adapter card into the unused PCI slot with care on the bottom of edge. Then fit the adapter bracket on case frame just like a slot cover.
- When two hard drives connected with ACARD AEC-6280 at the same IDE port (i.e.on same cable), the hard drives Jumper setting must be set as a respectively positioning "Master" and a "Slave" on the hard drives. The two hard drives could not be set on both "Master" nor both "Slave" on the same cable.
 For the hard drive or ATAPI device Jumper setting (Master / Slave), refer to hard drive or ATAPI device User Manual.
 In order to achieve best performance, use same hard drive model, ex. Ultra ATA 66, Ultra ATA 100 or Ultra ATA 133 hard drive.

2.3 ACARD AEC-6280 cable & power installation

The cable connection methods:

- Step 1. Find out pin 1 of IDE connector on IDE device.
- Step 2. Find out a color line of the internal IDE ribbon cable which indicates pin 1 of the connector.
- Step 3. Connect the internal IDE cable to the IDE device by aligns with pin-1 to pin-1.
- Step 4. Connect 4-pin power cable to the IDE device.



2.4 Compatibility list

IDE Hard Drive

Quantum FireBall LM series, LC series, LB series, LD series FireBall KX series. KA series FireBall CX series, CR series, EX series FireBall EL series, AS 20G,60G Seagate Medalist IDE series Barracuda ATA II/III/IV series ST320430A, ST313620A, ST3240AT, ST38422A, ST36531A IBM DTLA series, DPTA series, DTTA series, DJNA series GXP60/75 series Maxtor 54098U8, 52049U4, 91366U4, 94098U8, 91020U3, 98196H8 DiamondMax60 Plus series Fujitsu MPF-3204AT, MPD series, MPG series Western Digital Expert 13BA, Caviar AC14300, WD300BB WD600AB, WD800BB

Removable disk

- IOMEGA ZIP100, ZIP250
- Imation LS120

Chapter 3 BIOS Setup

Plug the ACARD AEC-6280 IDE card in the PCI slot, while the PC remains power on. When you see the following messages, press <F1> or <F10> to BIOS setup.



3.1 Functions description

Press <F1> or <F10>, the BIOS setup screen will be appeared :



ATAPI CD-ROM

AFREEY	50X, 52X
ASUS	40X, 50X, 52X
AOPEN/Acer	48X, 52X
BTC	48X, 50X, 52X, 56X
Philips	48X
Pioneer	32X
SONY	48X
TEAC	532E, 540E

ATAPI CD-R/RW

AFREEY	50X, 52X
ASUS	40X, 50X, 52X
HP	9100, 9300, 9500
LITE-ON	LTR-24102B
Philips	4X, 8X
PLEXTOR	8432, 1210TA, 1610TA, 2410TA
RICOH	7060A, 7120A, 7163A, 7200A, 9060A, 9120A
SONY	120E, 140E, 145E, 160E, 168E
TEAC	W54E, W512E, W516E
YAMAHA	8824E, 2100E, 2200E

ATAPI DVD-ROM

AFREEY	8X, 10X
ASUS	8X, 10X, 16X
AOPEN/Acer	16X
RICOH	9060A, 9120A
Pioneer	113, 114, 115, 16X
SONY	8X

For the lastest compatibility list, please refer to http://www.acard.com

3.1.1 IDE Deivces

To get the IDE device information which connect with AEC-6280.

	PCI NASTER ULTRA DMA133 IDE SETUP UTILITY	
SETUP FUN		
IIE D	IDE DEVICES	
	MODEL NUMBER TYPE Prim. NumSTDE: Prim. SlvIDE: ASUS CD-SSOB/R <atapi device=""> Seco. NumSTDE: QUENTIAN FIREBALLP RSOB.B< Fixed HDD > Seco. SlvIDE:</atapi>	

3.1.2 Adapter Setup

	ADAPTER SETUP	2000000000
SETU ID AD UT LO	Host Adapter BIOSEnable PCI Master-DMA Burst ModeEnable IDE HDD Block ModeEnable Support Removable Disk As Fixed DiskEnable ATAPI CD-ROM BootableDisable	
	Primary Master IDE. Enable Transfer Mode. AUTO Primary Slave IDE. Enable Transfer Mode. AUTO Secondary Master IDE. Enable Transfer Mode. AUTO Secondary Master IDE. Enable Transfer Mode. AUTO Secondary Slave IDE. Enable Transfer Mode. AUTO Secondary Slave IDE. Enable Transfer Mode. AUTO	
	BusH[01] DeviceH[0B] ROMH[CC00] IRQH[9]d IOH[D800, D400, D000, B800, B400]	
<11++>	move cursor . <enter> Select item . <pgup.dn> change setup . <es< th=""><th>c> exit</th></es<></pgup.dn></enter>	c> exit

■ Host Adapter BIOS : For setting AEC-6280 adapter's BIOS.

PCI Master-DMA Burst Mode : For setting AEC-6280 adapter's DMA-Brust mode.

■ **IDE HDD Block Mode** : For setting IDE HDD block mode, use the default value to achieve best performance.

Support Removable Disk As Fixed Disk : For setting removabledisk as fixed disk.

ATAPI CD-ROM Bootable : For setting ATAPI CD-ROM to boot.

Primary Master IDE & Transfer Mode : For setting primary Master ATAPI deivce, use default setting to achieve best performance.

Primary Slave IDE & Transfer Mode : For setting primary Slave ATAPI deivce, use default setting to achieve best performance.

■ Secondary Master IDE & Transfer Mode : For setting secondary Master ATAPI deivce, use default setting to achieve best performance.

■ Secondary Slave IDE & Transfer Mode : For setting secondary Slave ATAPI deivce, use default setting to achieve best performance.

3.1.3 Utility

■ **QuickErase** : Quick erase the hard drive content. Please beware, that data and partition will be completed erased.



3.1.4 Load Defaults

To restore the AEC-6280 BIOS defaults parameters setting.



3.1.5 Exit Setup

Press <Esc> to quit the RAID setup utility screen. Then choose the "Update Data" or "No Update" to Exit.



Chapter 4 System Installation

4.1 DOS Environment

For Boot Device

1. Complete ACARD AEC-6280 hardware installation.

2. Boot-up the computer, press to enter the motherboard's BIOS setup. Then change "**Boot Sequence**" to A:.

3. Restart the computer by a DOS bootable floppy and run DOS FDISK. Then create a Primary partition onto the hard drive.

4. After re-booting to a DOS bootable floppy, run the DOS FORMAT command.

Non Boot Device

1. Complete ACARD AEC-6280 hardware installation.

2. Boot-up the computer, press to enter the motherboard's BIOS setup. Then change "**Boot Sequence**" to C:.

3. Restart the computer, and run MS-DOS and DOS FDISK. Then create

a Primary partition onto the hard drive.

4. After re-booting, run the DOS FORMAT command.

4.1.2 Windows 95/98/ME Environment Non Boot Device

1. Complete ACARD AEC-6280 hardware installation.

2. The system will detect any new device and ask for directory to access the device driver. Click "**Next**" to go on.



3. Select "Search for the best driver for your device (Recommend)". Then click on "Next".



4. Windows will display the message when the system has found the driver for it and is going to install the driver.

5. Select "Specify a location". Please insert the directory of AEC6280.inf for it (such as a:\WIN9X).



6. Follow the procedures, the system will complete the action automatically.

Add New Hardware Wiz	ard
	Windows driver file search for the device: ACARD AEC6280 UDMA133 IDE Controller Windows is now ready to install the best driver for this device. Click Back to select a different driver, or click Next to continue.
000 \$\$ \$ \$ \$ \$	Contract Location of driver: A:\WIN3X\AEC6280.INF

7. Restart the computer.

ACARD AEC-6280

Verify ACARD AEC-6280

After boot-up the system, follow the direction below on the Device Manager find out whether the *ACARD AEC-6280* has installed OK.

Step 1. Enter "My Computer" and double click on "Control Panel".

Step 2. Double click on "System" and enter "Device Manager".

Step 3. Click the "**Hard disk controllers**" to check whether *ACARD AEC-6280* adapter has installed properly.

System Properties
General Device Manager Hardware Profiles Performance
View devices by type C View devices by connection
Computer Co
Properties Refresh Remove Print
OK Cancel

For Boot Device

For bootable drive from ACARD AEC-6280, complete Windows 95/98/ME operation system installation onto ACARD AEC-6280 drive first. Restarting the computer, install the ACARD AEC-6280 driver when system access.

4.1.3 Windows NT Environment

Driver installation is required when it is the first time to setup Windows NT into the System

For Boot Device

AEC6280.SYS is designed for Microsoft Windows NT miniport drivers. It allows driver connects to IDE devices (which support by Microsoft)

- 1. Insert Windows NT boot disk and boot from floppy disk.
 - (If boot from CD-ROM or install from hard disk, please press "F6" for the first booting screen)
- 2. Follow the Windows NT setup procedures.
- 3. Press "S" to specify additional SCSI adapter.
- 4. Move the highlight bar to "the other" and press "Enter".

5. Before the installation, copy the AEC-6280's driver into a floppy diskette first. Then insert the *ACARD AEC-6280* driver disk into the floppy.

6. The ACARD Miniport driver should be highlighted at this stage. Press "Enter" to proceed.

7. NT should now recognize the ACARD Miniport driver and the IDE hardware. Please follow the Microsoft Windows NT installation.

Install Driver for Windows NT

After Windows NT has been installed, you may wish to plug the ACARD AEC-6280 device on the Windows NT system. Follow the procedures below, Windows NT would install the newest ACARD AEC-6280 driver to the system.

- 1. Double click on "My Computer", enter "Controller Panel" .
- 2. Double click on "SCSI Adapter".

🔯 Control P	anel				_ 🗆	×
<u>F</u> ile <u>E</u> dit ⊻i	ew <u>H</u> elp					
Accessibility	Add/Remove	Console	Date/Time	Devices	Display	
Options Fonts	Programs () Internet	Keyboard	Modems	Mouse	Multimedia	
P Network	DDBC	PC Card (PCMCIA)	Ports	Printers	Regional Settings	
SCSI Adapters	Server	Services	Sounds	System	Tape Devices	
Telephony	نېژا UPS					
Add/Remove SCSI adapters and view their properties.					//.	

3. Choose "Drivers" and click on "Add".

SCSI Adapters	? ×
Devices Drivers	
SCSI adapters and connected devices are listed below.	
🕑 🏀 IDE CD-ROM (ATAPI 1.2)/Dual-channel PCI IDE Controller	
Properties	
OK Cano	el

4. Click on "Hard Disk" to select the right driver for the IDE adapter.

Install Dr	iver			×
¢	Click the driver yo If you have an ins Disk.	ou want to install, and stallation disk for a dr	d then click OK. iver that is not in the lis	t, click Have
Manufac	turers:	SCSI Adapter		
(Addition (Standa Adapteo Advanc AMI BusLog	nal models) rd mass storage co c ed Micro Devices (ic		(ATAPI 1.2)/Dual-cha	nnel PCI IDE Cor
				Have Disk
			OK	Cancel

5. Insert the directory of driver for Windows NT, for example "A:\Winnt"

Install Fro	om Disk	×
_	Insert the manufacturer's installation disk into the drive selected, and then click OK.	OK Cancel
	Copy manufacturer's files from:	Browse

6. Then follow the direction to complete the installation.

Install D	iver X
¢	Click the driver you want to install, and then click OK. If you have an installation disk for a driver that is not in the list, click Have Disk.
SCSI Ad	apter
ACARD	AEC6280 UDMA133 IDE Adapter
	OK Cancel

ACARD AEC-6280

Verify ACARD AEC-6280

After system booted, follow the directions below to check the "**Device Manager**" and see whether the *ACARD AEC-6280* has installed.

Step 1. Enter "My Computer" and double click on "Control Panel".

Step 2. Find "SCSI Adapters", double click it.

Step 3. In **"SCSI Adapters**", get the **"ACARD AEC6280 UDMA133 IDE Adapter** " to check whether the device has connected to AEC-6280.

CSI Adapters ? 🗙
Devices Drivers
SCSI adapters and connected devices are listed below.
Generation (ATAPI 1.2)/Dual-channel PCI IDE Controller ACARD AEC6280 UDMA133 IDE Adapter
Properties
OK Cancel

4.1.4 Windows 2000 Environment

Driver installation is required when it is the first time to setup Windows 2000 into the System

For Boot Device

AEC6280.SYS is designed for Microsoft Windows 2000 miniport drivers. It allows driver connected to IDE devices (which support by Microsoft)

- Insert Windows 2000 boot disk and boot from floppy disk.
 (If boot from CD-ROM or install from hard disk, please press "F6" for the first booting screen)
- 2. Follow the Windows 2000 setup procedures.
- 3. Press "S" to specify additional SCSI adapter.
- 4. Move the highlight bar to "the other" and press "Enter".

5. Before the installation, copy the AEC-6280's driver into a floppy diskette first. Then insert the *ACARD AEC-6280* driver disk into the floppy.

6. The ACARD Miniport driver should be highlighted at this stage. Press "Enter" to proceed.

7. Windows 2000 should now recognize the ACARD Miniport driver and the IDE hardware. Please follow the Microsoft Windows 2000 installation.

Install Driver for Windows 2000

After Windows 2000 has been installed, you may wish to plug the ACARD AEC-6280 device on the Windows 2000 system. Before plug in AEC-6280, follow the procedures to install driver manually.

ACARD AEC-6280

1. Complete *ACARD AEC-6280* hardware installation. The system will find "New Hardware".

2. The system will detect a new device and ask for directory to access

the driver. Select "Search for a suitable driver for my device (Recommended)". Then click "Next".

Found New Hardware Wizard	
Install Hardware Device Drivers A device driver is a software program that an operating system.	enables a hardware device to work with
This wizard will complete the installation for	this device:
A device driver is a software program that r needs driver files for your new device. To li installation click Next. What do you want the wizard to do?	nakes a hardware device work. Windows ocate driver files and complete the
Search for a suitable driver for my diagonality	evice (recommended)
C Display a list of the known drivers for driver	r this device so that I can choose a specific
	< <u>B</u> ack <u>N</u> ext > Cancel

3. Follow the wizard, Windows will ask for the driver files' location. Select **"Specify a location**".

Found New Hardware Wizard	
Locate Driver Files Where do you want Windows to search for	driver files?
Search for driver files for the following hardw	vare device:
The wizard searches for suitable drivers in it any of the following optional search location To start the search, click Next. If you are se insert the floppy disk or CD before clicking h	s driver database on your computer and in is that you specify. arching on a floppy disk or CD-ROM drive, lext.
Optional search locations: Floppy disk drives CD-ROM drives	
✓ Specify a location ✓ Microsoft Windows Update	
	< <u>B</u> ack Next > Cancel

4. Select "**Browse**" to find out the driver directory of AEC6280.inf for it (such as A:\Win2000).

Found Nev	v Hardware Wizard	×
9	Insert the manufacturer's installation disk into the drive selected, and then click DK.	OK Cancel
	Copy manufacturer's files from:	Browse

5. The wizard will find a driver for IDE adapter. Click on "**Next**" to install the driver.

Found New Hardware Wizard
Driver Files Search Results The wizard has finished searching for driver files for your hardware device.
The wizard found a driver for the following device:
SCSI Controller
Windows found a driver for this device. To install the driver Windows found, click Next.
a:\win2000\aec6280.inf
< <u>B</u> ack <u>Next></u> Cancel

6. Click on "Yes" to continue the installation.



7. Follow the directions, the system will complete the setup automatically.



Verify ACARD AEC-6280

After system booted, follow the directions below to check the "**Device Manager**" and see whether the *ACARD AEC-6280* has installed.

Step 1. Enter "My Computer" and double click on "Control Panel".

Step 2. Find "System", double click it.

Step 3. In "System Properties", choose "Hardware" and click on "Device Manager".

Step 4. In **"SCSI and RAID controllers**" to double click on **"ACARD TECHOLOGY CORP. AEC6280 IDE Ultra ATA133 Adapter**" to check whether the device has connected to AEC-6280.



4.1.5 Windows XP (Beta Version) Environment

Driver installation is required when it is the first time to setup Windows XP (Beta Version) into the System

For Boot Device

AEC6280.SYS is designed for Microsoft Windows XP (Beta Version) miniport drivers. It allows driver connected to IDE devices (which support by Microsoft)

- Insert Windows XP (Beta Version) boot disk and boot from floppy disk. (If boot from CD-ROM or install from hard disk, please press "F6" for the first booting screen)
- 2. Follow the Windows XP (Beta Version) setup procedures.
- 3. Press "S" to specify additional SCSI adapter.
- 4. Move the highlight bar to "the other" and press "Enter".

5. Before the installation, copy the AEC-6280's driver into a floppy diskette first. Then insert the *ACARD AEC-6280* driver disk into the floppy.

6. The ACARD Miniport driver should be highlighted at this stage. Press "Enter" to proceed.

7. Windows XP (Beta Version) should now recognize the ACARD Miniport driver and the IDE hardware. Please follow the Microsoft Windows XP (Beta Version) installation.

Install Driver for Windows XP (Beta Version)

After Windows XP (Beta Version) has been installed, you may wish to plug the *ACARD AEC-6280* device on the Windows XP system (Beta Version). Before plug in *AEC-6280*, follow the procedures to install driver manually.

1. Complete *ACARD AEC-6280* hardware installation. The system will find "**New Hardware**".

 The system will detect a new device and ask for directory to access the driver. Select "Install from a list or specific location (Advanced)". Then click "Next".



3. Follow the wizard, Windows will ask for the driver files' location. Select "Include this location in the search".

4. Then select "**Browse**" to find out the driver directory of AEC6280.inf for it (such as A:\Win2000).

Found New Hardware Wizard		
Please choose your search and installation options.		
Search for the best driver in these locations.		
Use the check boxes below to limit or expand the default search, which includes local paths and removable media. The best driver found will be installed.		
✓ Include this location in the search:		
F:\ Browse		
◯ Don't search. I will choose the driver to install.		
Choose this option to select the device driver from a list. Windows does not guarantee that the driver you choose will be the best match for your hardware.		
< Back Next > Cancel		

5. The wizard will find a driver for IDE adapter. Click on "**Next**" to install the driver.

und New H	ardware Wizard
Please cho	ise your search and installation options.
⊙ Searc	n for the best driver in these locations.
Use th paths	e check boxes below to limit or expand the default search, which includes local and removable media. The best driver found will be installed.
	Search removable media (floppy, CD-ROM)
\checkmark	Include this location in the search:
	A:\Win2000 Srowse
🔿 Don't	search. I will choose the driver to install.
Choos the dri	• this option to select the device driver from a list. Windows does not guarantee ver you choose will be the best match for your hardware.
	(Back Next) Cancel

6. Click on "Continue Anyway" to continue the installation.

Hardwar	e Installation
<u>.</u>	The software you are installing for this hardware: ACARD AEC6280 UDMA133 IDE Adapter has not passed Windows Logo testing to verify its compatibility with Windows XP. (Tell me why this testing is important.) Continuing your installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the hardware vendor for software that has passed Windows Logo testing.
	Continue Anyway

7. Follow the directions, the system will complete the setup automatically.

Found New Hardware Wizard		
	Completing the Found New Hardware Wizard The wizard has finished installing the software for: ACARD AEC6280 UDMA133 IDE Adapter The hardware you installed will not work until you restart your computer.	
ALL	Click Finish to close the wizard.	
	K Back Finish Cancel	

Verify ACARD AEC-6280

After the system booted, follow the directions below to check "**Device Manager**" and see whether the *ACARD AEC-6280* has installed.

Step 1. Press "Start" and select "My Computer"



Step 2. Find "View system information", double click it.



Step 3. In "System Properties", choose "Hardware" and click on "Device Manager".



Step 4. In "SCSI and RAID controllers" to double click on "ACARD AEC-6880 PCI Ultra ATA133 RAID Controller" to check whether the device has success connected to ACARDAEC-6880.



Chapter 5 Troubleshooting

Installing the *ACARD AEC-6280* while it does not function properly, follow the troubleshooting guide below.

1. Check power supply

Check the malfunction devices and the power status (ON / OFF) at all times.

2. Verify IDE device

Before installing the *ACARD AEC-6280*, ensure your IDE device functions are set in proper mode.

3. Check host adapter

Verify the adapter card is seated well in its slot on the motherboard.

4. Check all connectors and cables

Ensure all internal IDE connector, device power connector, and cables are well connected. Beware that cables are easily damaged because of unproper fold. Make sure no connector pins are bent. Last, verify pin 1 on the interface cable is aligned with pin 1 on the drive and the host adapter.

Appendix 1 Application Utility

ASPITool32 Manager

The **ASPITool32 Manager** program has many functions which are aiming to manage the hard drives working properly under the Windows OS while connect with ACARD SCSI adapter or IDE adapter. The **ASPITool32 Manager** program has proudly and solely developed by ACARD. You may get the installation executive program from the ACARD Driver CD.

ASPITool32 Manager Functions

1. FDsik: Create the hard drive partition.

2. Disk QErase: Quick erase the hard drive content. Please beware, that data and partition will be complete erased.

3. Disk Fromat: Format the partition.

4. Disk Diagnose: Detect the hard drive and check whether it works properly.

5. Diak information: Provide the information of BPB and partition.

6. Disk Verfiy: Verfiy the hard drive and check, if there is any bad sector.

7. On Now: Re-scran the SCSI bus and check, if there is any new device added.

8. About: Provide ASPITool32's information.

9. Hide: Zoom out the function windows to tray icon.



10. Disk Express Setup: Instruction of how to create and format the partition.

Appendix 2 Technical Support Form

Email: support@acard.com

http://www.acard.com

Model	AEC-6280	F/W Ver	sion
System Configuration			
Main Board vendor			
BIOS version			
SCSI adapter			
Chipset			
Memory			
Dispay card			
Other I/O card			
OS version			
Hard Disk			
Configuration			
Hard Dis	k Model/type		
Capacity			
Firmware version			
Others			
Problem Description			

MALAEC6280XE10-0