Chapter 4

VIA CHIPSET DRIVER

1. Overview

The MVP4 integrates an AGP 2.0 - compliant 2D/3D AGP graphics controller
into the north bridge of the chipset. Packed with features, the controller
incorporates a 64-bit 2D/3D graphics engine and video accelerator with
advanced DVD video and optional TV output capability. The controller
supports Win-95 and Win-98 / NT5 miniport drivers.

The Apollo MVP4 is paired with the VIA VT82C686A south bridge. Highly
advanced, the south bridge combines an integrated 2D/3D engine with DVD
hardware acceleration, AC-97 audio support for SoundBlaster Pro and FM
synthesis legacy audio.

1.1 Graphics Features

- AGP 2.0 --Compliant
- 64-bit 2D/3D graphics engine and video accelerator
- DVD hardware accelerator

1.2 Audio Features

- AC'97 audio support for SoundBlaster Pro
- FM synthesis legacy audio

1.3 System Requirements

This section describes system requirements for the VGA Driver installation and Usage.

Computer	Intel® Pentium™ processor
	AMD® K6/K6-2/K6-III processor
	Cyrix® MX/MII processor
Monitor	VGA Support, mimimum 640x480 resolution
Operating system	DOS 5.0 or higher, Windows® 95/98, Windows® NT 3.51 or 4.0, or OS/2®
CD-ROM	Double Speed or Higher
Chipset	VIA® MVP4/VT82C686A chipset
VGA BIOS	Version 00.23 or Higher

2. Driver Setup & Usage Procedures for Windows® 98

Insert the CD-title into your CD-ROM drive. The CD will auto-run and will display the four icons in the monitor "VIA Chipset Drivers", "VIA AC97 PCI Sound Drivers", "VIA Enhance VGA Drivers" and "Download VIA Drivers". In order to install the drivers correctly, you must install the "Via Chipset Drivers" first, and then install the "VIA AC97 PCI Sound Drivers" or "VIA Enhance VGA Drivers".

2.1 VIA Chipset Drivers installation procedure:

Step 1:   Insert the provided CD_ROM disk into the CD-ROM drive.
Step 2:   Look for the CD_ROM drive, double click on the CD_ROM icon. This will show the setup screen.
Step 3:   Click on "Via Chipset Drivers" icon and the screen will show "VIA Service Pack 4.05".
Step 4:   Click "Next" and the screen will show three drivers "Bus Master PCI IDE Driver", "AGP VxD Driver" and "VIA Chipset Function's Registry". Select all three drivers and click on "Next".
Step 5:   The setup program will request you to choose "Install", "Uninstall" or "Enable/Disable (Ultra) DMA for IDE driver". Please select "Install" and click "Next" to continue.
Step 6:   The setup program will request you to choose "Install VIA AGP VxD in turbo mode", "Install VIA AGP VxD in normal mode" or "Uninstall VIA AGP VxD". Please select "Install VIA AGP VxD in turbo mode" and click on "Next".
Step 7:   The setup program will let you choose between "Install VIA Chipset Functions Registry" or "Uninstall VIA Chipset Functions Registry". Please select "Install VIA Chipset Functions Registry" and then click "Next".
Step 8:   The setup program will request you to choose whether to restart the computer or not. Please select "Yes, I want to restart my computer now" and click Finish. The computer will restart and finish the VIA Chipset Drivers installation.

2.2   VIA AC97 PCI Sound Drivers installation procedure:

Step 1:   Insert the provided CD_ROM disk into the CD-ROM drive.

Step 2:   Look for the CD_ROM drive, double click on the CD_ROM
icon. This will show the setup screen.

Step 3:   Click on "VIA AC97 PCI Sound Drivers" icon and the screen
will show "VIA AC97 PCI Sound Drivers".

Step 4:   Click "Next" to proceed and the screen will show "Install",
or "Remove". Select "Install" and then click on "Next".

Step 5:   The setup program will request you to choose whether to
restart the computer or not. Please select "Yes, I want to restart
my computer now" and click Finish. The computer will restart
and finish the AC97 Audio Drivers Installation.

2.3   VIA   Enhance VGA Drivers Installation Procedures

Step 1:   Insert the provided CD_ROM disk into the CD-ROM drive.

Step 2:   Look for the CD_ROM drive, double click on the CD_ROM
icon. This will show the setup screen.

Step 3:   Click on "VIA Enhance VGA Drivers" icon and click "Next".

Step 4:   The setup program will request you to choose whether to
restart the computer or not. Please select "Yes, I want to restart
my computer now" and click Finish. The computer will restart
and finish the VGA Chipset Drivers installation.

2.4   Change the display resolution and color

Step 1:   Click the "Start" icon at the left button of the screen.

Step 2:   Select "Settings" then "Control Panel". Click on "Control
Panel".

Step 3:   Double click the "Display" icon and the screen will show
"Display Properties" setting screen.

Step 4:   Click the "Settings" icon to change the display resolution and
color. Click "OK" when you finish setting the resolution and
color.

Note: If you wish to have a good 3D graphic quality, please install the
Direct X 6.

2.5   Enable the Ultra DMA Driver for IDE Driver

Step 1: Insert the provided CD-ROM disk into the CD-ROM drive.

Step 2: Look for the CD-ROM drive, double click on the CD-ROM icon. This will show the setup screen.

Step 3: Click on the "VIA Chipset Drivers" icon and the screen will show "VIA Service Pack 4.05".

Step 4: Click "Next" and the screen will show three drivers: "Bus Master PCI IDE Drivers", "AGP VxD Drivers" and "VIA Chipset Function's Registry". Select the "Bus Master PCI IDE Drivers" icon and click "Next".

Step 5: The setup program will request you to choose "Install", "Uninstall" or "Enable/Disable (Ultra) DMA for IDE driver". Please select "Enable/Disable (Ultra) DMA for IDE driver" and click "Next" to continue.

Step 6: The setup program will show the hard drive DMA mode, please click "Next".

Step 7: The setup program will request you to choose whether to restart the computer or not. Please select "Yes, I want to restart my computer now" and click Finish. The computer will restart and finish the (Ultra) DMA Enable for IDE Master.

3. Windows® NT 4.0

Install Windows® NT 4.0 Service Pack 3 or the latest version before installing the VIA drivers.

Insert the CD-title in the CD-ROM drive. The CD will auto-run and will display four icons on the screen "VIA Chipset Drivers", "VIA AC97 PCI Sound Drivers", "VIA Enhance VGA Drivers" and "Download VIA Drivers". In order to install the drivers properly, install the "VIA Chip Drivers" first and then install the "VIA AC97 PCI Sound Drivers" or "VIA Enhance VGA Drivers".

3.1 VIA Chipset Drivers Installation Procedure:
Step 1:   Insert the provided CD_ROM disk into the CD-ROM drive.
Step 2:   Look for the CD_ROM drive, double click on the CD_ROM icon. This will show the setup screen.
Step 3:   Click on "VIA Chipset Drivers" icon and the screen will show "VIA Service Pack 4.05".
Step 4:   Click "Next" to proceed and the screen will show "Install", "Uninstall" or "Enable/Disable Ultra DMA for IDE Driver". Select "Install" and then click on "Next".
Step 5:   The setup program will show the following on the screen: "To complete this installation, follow this steps"
   1. Select the "SCSI Adapters" icon on the "Control Panel".
   2. Select the "Add.." button on the "Drivers" sheet.
   3. Select the "VIA Bus Master IDE Drivers" and click the "OK" button
   4. Reboot
      Please click "Next" to exit the setup program.
Step 6:   Follow the steps shown in **Step 5** to finish the VIA Chipset Drivers installation.

3.2 VIA AC97 PCI Sound Drivers Installation Procedure:

Step 1: Insert the provided CD_ROM disk into the CD-ROM drive.

Step 2: Look for the CD_ROM drive, double click on the CD_ROM icon. This will show the setup screen.

Step 3: Click on "VIA AC97 PCI Sound Drivers" icon and the screen will show the "VIA PCI Audio Drivers" setup screen. Click "Next" to continue

Step 4: The setup program will show "Install" or "Remove" in the screen. Select "Install" and click "Next"

Step 5: The setup program will show the following on the screen:

> Please choose "Add" from the next window
> and add the following device:
> > VIA AC97 PCI Audio Device
> > VIA MIDI External Port

Then click "OK".

Step 6: Follow the steps shown in **Step 5** to finish the VIA AC97 PCI Audio Drivers Installation.

3.3 VIA Enhance VGA Drivers Installation Procedure:

Step 1: Insert the provided CD_ROM disk into the CD-ROM drive.

Step 2: Look for the CD_ROM drive, double click on the CD_ROM icon. This will show the setup screen.

Step 3: Click on "VIA Enhance VGA Drivers" icon and the screen will show the "VIA Enhance VGA Drivers" setup screen. Click "Next" to continue.

Step 4: The setup program will ask you whether you want to restart your computer now or not. Select "Yes, I want to restart my computer now: and click "Finish". The computer will restart and finish the VGA Drivers installation.

Step 5: After restarting the system, the system will ask to change the display resolution and color. Select the display resolution and color and click "OK".

3.4 Enable the Ultra DMA for IDE Driver:

Step 1: Insert the provided CD-ROM disk into the CD-ROM drive.

Step 2: Look for the CD-ROM drive, double click on the CD-ROM icon. This will show the setup screen.

Step 3: Click on the "VIA Chipset Drivers" icon and the screen will show "VIA Service Pack 4.05".

Step 4: Click "Next" and the screen will show three drivers: "Bus Master PCI IDE Drivers", "AGP VxD Drivers" and "VIA Chipset Function's Registry". Select the "Bus Master PCI IDE Drivers" icon and click "Next".

Step 5: The setup program will request you to choose "Install", "Uninstall" or "Enable/Disable (Ultra) DMA for IDE driver". Please select "Enable/Disable (Ultra) DMA for IDE driver" and click "Next" to continue.

Step 6: The setup program will show the hard drive DMA mode, please click "Next".

Step 7: The setup program will request you to choose whether to restart the computer or not. Please select "Yes, I want to restart my computer now" and click Finish. The computer will restart and finish the (Ultra) DMA Enable for IDE Master.