

Chapter 4

INTEL® GMCH INTEGRATED GRAPHICS CONTROLLER

1. Overview

The series of Intel® 810 Chipset extends Intel's graphics capabilities into the value PC segment by incorporating 2D and 3D capabilities with the memory controller, to provide the industry with complete graphics offerings for every computing segment.

1.1 Intel® GMCH Chipset

- Support 4MB Display Cache (optional)
- Support AGP 2X BUS
- 2D & 3D Graphics Accelerator

1.2 System Requirements

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

Computer	Intel® Celeron™ processor or higher
Monitor	VGA Support, minimum 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	Intel® GMCH chipset
VGA BIOS	Version 00.23 or Higher

2. Intel® 810 VGA Driver Setup & Usage Procedures

Insert the CD-title into your CD-ROM drive. This CD will auto-run. This will display installation for VGA driver and sound driver, Intel® 810/820 INF Update (only for Windows® 95/98) and Trend PC-cillin 98. Just click the button for automatic installation for VGA driver.

2.1 Windows® 95/98

If you start Windows® 95/98, this will automatically detect this hardware onboard “Standard PCI Graphics Adapter (VGA)”. You need to click “Next”, then “Finish”. Do not click on the “Cancel”. The driver need these ID.

Note: Before installing the Intel® 810 VGA Driver, you need to install the Intel® 810/820 INF update first.

2.1-1 Display Driver 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 “Intel® 810 VGA Driver” icon.
- Step 4:** This will show an installation menu.
- Step 5:** Click on “Display Drivers”.
- Step 6:** Click “OK”.
- Step 7:** This will copy the VGA drivers into the hard drive.
- Step 8:** A message will appear stating you must restart the Windows® 95/98 system, select **yes** to restart.
- Step 9:** After restarting, Windows® 95/98 will show a new display setting.

Note: It is recommended that you restart your computer after every installation of a new driver to prevent any technical problems.

2.2 Windows® NT 4.0

You need to install Windows® NT “Service Pack 3” or higher, before you install Windows® NT driver.

2.2-1 Display Driver Installation Procedure:

- Step 1:** Click **Start** menu and select **Control Panel** from **Settings** group.
- Step 2:** Select **Display** icon.
- Step 3:** Select **Settings** on the Display Properties.
- Step 4:** Select **Display Type**.
- Step 5:** Select **Change** from the **Adapter Type** Area.
- Step 6:** Select **Have Disk** of Change Display.
- Step 7:** Insert the **CD-Title Disk** into CD-ROM Drive.
- Step 8:** When the Install from Disk dialog box appears, look for your CD-ROM drive :**\\SVGA\\Intel\\810\\NT4\\WINNT4**
- Step 9:** When the **Change Display** dialog box appears, click **OK**.
- Step 10:** When the Third-party Drivers dialog box appears, click **Yes**.
A message will appear stating that the drivers were successfully installed. Click **OK**. You must now restart Windows® NT 4.0.

Note: A. You can also use CD autorun to install the VGA NT driver.
B. It is recommended that you restart your computer after every installation of a new driver to prevent any technical problems.

2.2-2 Changing resolution, color depth, and refresh rate:

- Step 1:** Click **Start** menu and select **Control Panel** from **Settings** group.
- Step 2:** Select **Display** icon.
- Step 3:** Select **Settings**.
- Step 4:** Select Color Palette to change between 256 color, 65536 colors, and 16777216 colors.
- Step 5:** To select desktop resolution size, go to the Desktop area and use the slide bar to change resolution from 640x480, 800x600, 1024x768, 1152x864, 1280x1024, to 1600x1200.
- Step 6:** Select Test to test the resolution. If the display test screen was good, then select Yes when the Testing Mode dialog box appears. If the display test screen was bad, then select No. Windows® NT will give you an error message.
- Step 7:** Click OK. If the display test screen was good and you select Yes, Windows® NT 4.0 will change the mode without restarting the system.

2.3 AutoCAD, OS/2 and other application. Please refer to “On-Line Manual” in the CD-ROM. You need to install the “Acrobat Reader 3.01” program first.