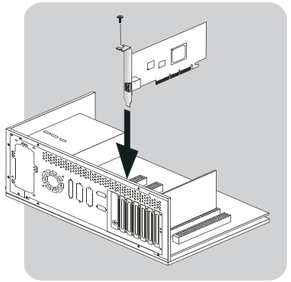
- SMARTSHADERTM™ 2.1 offers complete DirectX® 9.0 support, enabling cinematic quality lighting effects
- SMOOTHVISIONTM™ 2.1 delivers the sharpest, clearest textures
- Comprehensive AGP 8X/4X/2X support
- RADEON 9800 PRO Visual Processing Unit (VPU)
- One display (VGA or DVI) simultaneously connected with a TV or VCR
- YPrPb output adapter (available in North America only)
- 2D Display Modes: Resolutions, colors and masimum refresh rates(Hz) in 256, 65K Or 16.7M colors

640x480	200Hz	1600x1200	120Hz
800x600	200Hz	1920x1080	120Hz
1024x768	200Hz	1920x1200	100Hz
1152x864	200Hz	1920x1440	90Hz
1280x1024	160Hz	2048x1536	85Hz

- Core Clock: 378 Mhz
- Memory Clock: 338 MHz

Hardware Installation



Follow the steps below to install the VGA card :

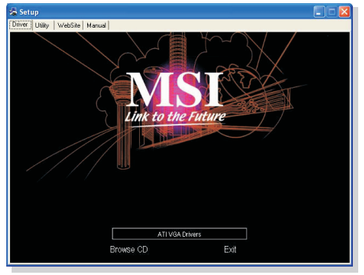
1. Remove the computer case.
2. Locate the AGP slot on your mainboard.

   Warning: Inserting the VGA card into a wrong slot (e.g. PCI slot)will damage your card (refer to your mainboard manual for more Information).
3. Put the card directly over the AGP slot and press one end of the card into the slot first. Gently but firmly press the other end until it is fully seated in the slot.
4. Secure the card with a bracket screw.
5. Install all other cards and devices and connect all the cables, and then install the case.
6. Connect the monitor. Now, you are ready to install the software on your computer.

Software Installation (for Windows® XP/ 2000/ 98SE/ ME)

To install the driver of the VGA card to your computer running Windows®XP/ 2000/ 98SE/ ME, please follow the steps below:

1. Turn on the computer.
2. Insert the CD into the CD-ROM drive. The Autorun program will start the Setup program, and show the setup screen as follows:



Tip : If, on your computer, the Autorun program does not execute automatically, please 1) enable the CD-ROM drive Auto-detect function from Control Panel; or 2) find and run the setup.exe file manually from the CD.

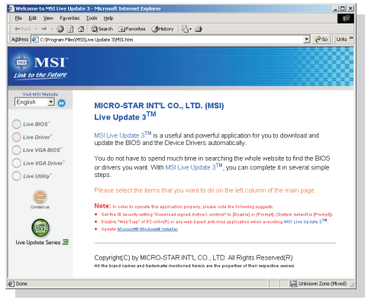
3. Click **ATI VGA Drivers**. Follow the on-screen instructions to complete the installation.
4. After finishing the installation, restart the computer as instructed.

Installing MSI™ Live Update 3™

MSI™ Live Update 3™ is a useful utility for you to upgrade your MSI™ mainboard and VGA card. Thanks to the powerful capacity of this utility, you can conveniently download and automatically update the BIOS and the drivers on-line, without spending much time in searching many Web sites to find the BIOS or drivers you want.

Installing from the CD-Title

1. Insert the CD into the CD-ROM drive, and start the **Setup** program.
2. Click the **Utility** tab on the setup screen.
3. Click the **MSI™ Live Update 3™**. Follow the on-screen instructions to complete the installation.



Installing from the MSI™ Web Site

1. Make connection to MSI's website at http://www.msi.com.tw
2. Select **/Support/Live Update 3/** on the upper part of the MSI's homepage to enter the setup page.
3. Click the InstallShield wizard InstallShield Wizard button to have the program of MSI™ Live Update 3™ with MSI™ Live monitor downloaded and installed on your system automatically, or click here (manual) to download and install the program manually.
4. Follow the on-screen instructions to complete the installation.

Using MSI™ Live VGA Driver™ Update

MSI™ Live VGA Driver™ Update

This service enables you to update the latest VGA driver for your VGA card.

1. To update the MSI™ Live VGA Driver™, click Live VGA Driver™ item on the left column of the main page.
2. This utility will start checking your platform and the information on the VGA card, and display the information in a list.
3. Click the graph button on the bottom to connect MSI Live Update Series Server. Then, it will automatically connect the Internet and compare the version of the driver in the database.
4. It may take several minutes to detect the required drivers. Please wait while proceeding detection.
5. Click the **InstallShield Wizard** button on the right side of the table to download and update the driver. All actions will proceed automatically.
6. Follow the on-screen instructions to complete the updating procedure.

Using MSI™ Live VGA BIOS™ Update

MSI™ Live VGA BIOS™ Update

This service enables you to update the latest VGA BIOS for your VGA card.

1. To update your VGA BIOS, click Live VGA BIOS™ item on the left column of the main page.
2. If your VGA card does not support the Live VGA BIOS™ function, you will receive a warning message on the screen.
3. If your VGA card do support the Live VGA BIOS™ function, please pay attention to the message shown on the screen telling you that in what circumstance flashing BIOS may fail to reboot.
4. Click Yes if you would like to try it at your own risk or No to return to the main page with everything unchanged.
5. If you click Yes to continue, it will check the information and BIOS version of your VGA card, and list them in a table.
6. Click the graph button at the bottom to connect the MSI™ Live Update 3™ Server.
7. The MSI™ Live VGA BIOS™ will automatically connect the Internet and search the supported BIOS in the database of MSI™.
8. If it has found one (or several) supported BIOS for your VGA card, click the InstallShield Wizard button on the right side of the table to have the new BIOS downloaded and updated automatically.
9. Follow the on-screen instructions to complete the updating procedure.

Quick Installation Guide

FCC-B Radio Frequency Interference Statement

CE N1996

This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his own expense.

Notice 1
The changes or modifications not expressly approved by the party responsible for compliance could void the user authority to operate the equipment.

Notice 2
Shielded interface cables and A.C. power cord, if any, must be used in order to comply with the emission limits.

VOIR LA NOTICE D NSTALLATION AVANT DE RACCORDER AU RESEAU.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) this device may not cause harmful interference, and
(2) this device must accept any interference received, including interference that may cause undesired operation.

FC Micro Star International MS-8956

Macrovision Corporation Product Notice

This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other right owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

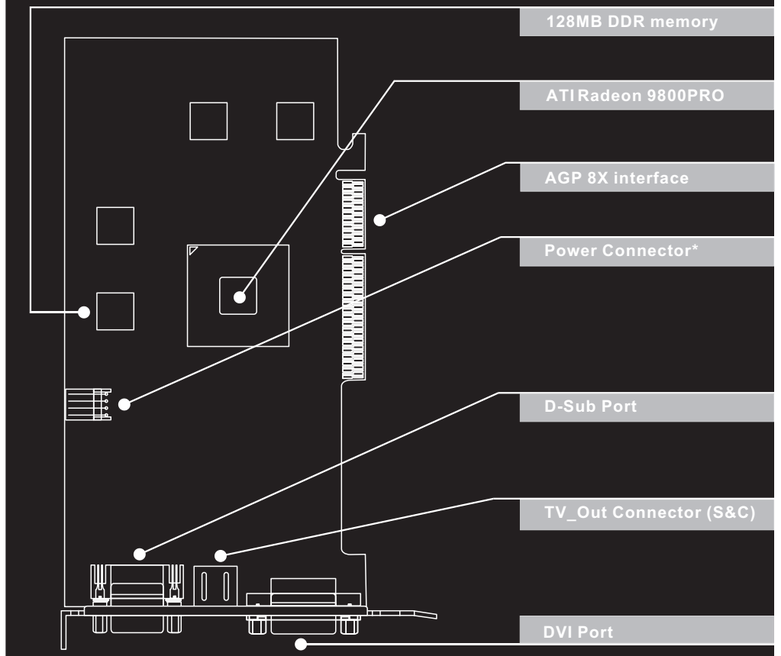
Micro-Star International MSI

TEL. 886-2-32345599
FAX. 886-2-32345488
http://www.msi.com.tw

* All trademarks used in this manual are the sole property of their respective owners.

VGA is a trademark of International Business Machines Corporation.
Pentium® is a registered trademark of Intel® Corporation.
Windows® is a registered trademark of Microsoft® Corporation.

MICRO-STAR INTERNATIONAL



NOTE:
* The supplied power cable must be attached to ensure the card works properly.
* Always connect or disconnect the supplied power cable when the system power is off.

RX9800PRO-TD128

ATI Radeon™ 9800PRO inside!!!

Getting Started

Please check out the following items to make sure that you get the complete product:
- VGA card
- CDs
  - Drivers and documentation on CD
  - Applications on CD

* Consult your dealer immediately if anything is missing or damaged.

System Requirements

To install the VGA card, your computer system needs to meet the following requirements:
- RADEON™ 9800 Series of products requires connection to your PC's internal power supply for operation. Consult your system builder or OEM to ensure your system has an adequate power supply. Otherwise, a 300-Watt power supply or greater will be recommended to ensure normal system operation where a number of other internal devices are installed.
- Intel Pentium® 4/III/II/Celeron™, AMD® K6/Athlon® or compatible with AGP 8X/4X/2X slot
- 128MB of system memory
- Installation software requires CD-ROM drive
- DVD playback requires DVD drive
- Interactive Program guide requires Internet connection for listing updates
- Remote control receiver requires available USB port
- 500MHZ minimum processor speed for MPEG-2 video capture
- Operation System Support: Windows XP / 2000 / Me / 98 / 98SE

Card Features

- Quad-Pipe architecture delivers real-time cinematic rendering and animation
- THRUVIEW™ creates live, translucent TV, video and DVD windows for easy desktop access
- Radio frequency wireless remote adds the flexibility of a hand held, 30 foot user interface
- New EAZYLOOK™ full-sized programming grid offers theme controls and single click navigation
- MulTView™ enables dual TV tuner capabilities including Picture-in-Picture and independent channel surfing. (*Additional ATI TV WONDER™ is required for this to work.*)
- Add effects, transitions and sound to videos with Pinnacle Studio™ software
- Save projects to VideoCD and DVD formats or output to digital ready television
- VideoSoap™ provides filtering techniques that improve sharpness and smooth blurry motion for high quality personal video
- Capture pictures and video at up to 30 frames per second.
- Output to HDTV ready devices with ALL-IN-WONDER®'s video output component adapter
- 128MB DDR memory to generate the most detailed and immersive gaming experiences without sacrificing frame rates
- 256-bit memory interface delivers bandwidth for real-time 3D visuals and barrier-free performance
- 8-pixel pipeline architecture doubles the rendering power of any competing product currently on the market