- Support SMOOTHVISION™ 2.1 and HYPER Z™ III
- Support SMARTSHADER TM 2.0
- Dual integrated display controllers
- Integrated 165 MHz TMDS transmitter (DVI 1.0 compliant)
- Integrated TV Output support up to 1024x768 resolution
- Optimized for Pentium®4 SSE2 and AMD Athlon™ 3Dnow!
- PC 2002 compliant abs
- 0.13-micron process technology for higher levels of integration and higher operating clock speeds.
- Memory Interface: 128-bit
- Peak Memory Bandwidth: 6.4GB/sec. (This value is for reference only, depending on the type/size of memory implemented)
- Bandwidth compression ratio: 6
- Peak Pixel Fill Rate: 6+ Gpixels/sec
- Geometry Pipelines: 2
- Rendering Pipelines: 4
- Peak Vertex Throughput: 750+
- Textures applied per pass: supports up to 16 textures per pass
- Engine Clock Speed: 250MHz
- Memory Clock Speed: 200MHz
- AA Samples per Second: 7.8
- Maximum Texels Filtered per Pixel: 768
- Dual RAMDACs: 400MHz
- 2D Display Modes: Resolutions, colors and maximum refresh rates(Hz) in 256, 65K or 16.7M colors

640x480	120Hz	1600x1200	85Hz
800x600	120Hz	1920x1080	75Hz
1024x768	120Hz	1920x1200	75Hz
1152x864	120Hz	1920x1440	75Hz
1280x1024	120Hz	2048x1536	65Hz

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.
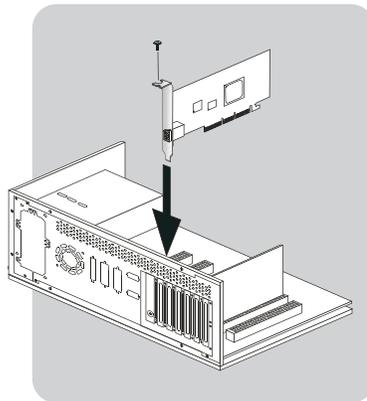
Software Installation
(for Windows® XP/ 2000)

To install the driver of the VGA card to your computer running Windows®XP or 2000, 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 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.
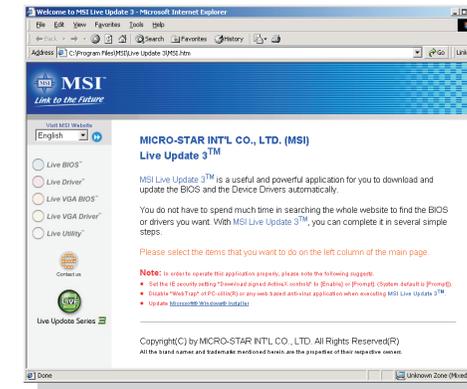
The page of the MSI™ Live Update 3™

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.

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Pentium® is a registered trademark of Intel® Corporation.
Windows® is a registered trademark of Microsoft® Corporation.

Micro-Star International

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

G52-V2ARX21
August 2004

256MB DDR memory or 128MB DDR memory

ATI Radeon X9550

AGP 8X interface

Fan Connector

DVI Port

TV_Out Connector (S)

D-Sub Port
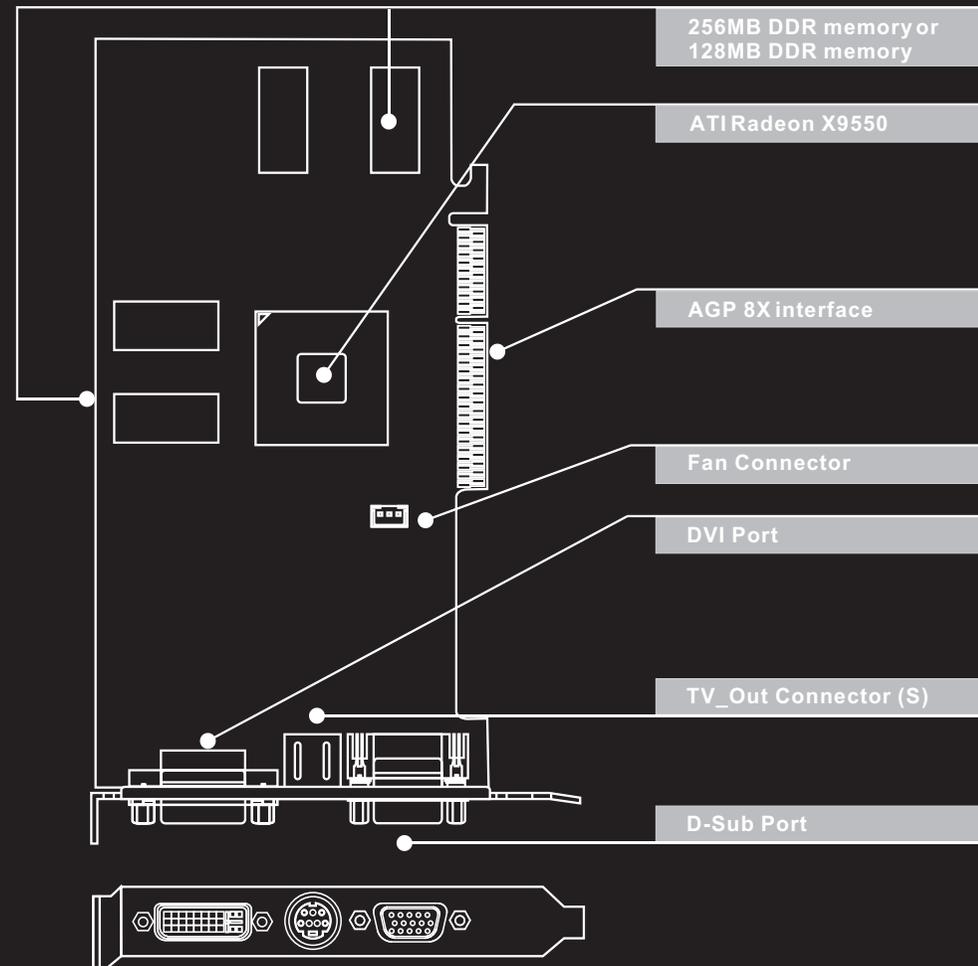
RX9550-TD256
RX9550-TD128

ATI Radeon™ X9550 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:
● Intel® Pentium® 4/III/II/Celeron™, AMD® K6/Duron™/Athlon®/Athlon XP® or compatible with AGP 4X (1.5V), 8X (0.8v) or Universal AGP 3.0 bus configuration (4X/8X).
● 128MB of system memory
● Installation software requires CD-ROM drive
● DVD playback requires DVD drive
● Operating Systems Support: Windows® XP/2000
● Power supply of 350 (and up) watt is highly recommended for system stability

Card Features

● Quad-Pipe architecture delivers real-time cinematic rendering and animation
● SMARTSHADERTM™ 2.0 technology supports Microsoft® DirectX® 9 feature sets, enabling more complex and cinematic-quality lighting effects
● SMOOTHVISION™ 2.1 technology delivers the sharpest, clearest textures without sacrificing frame rates sacrificing frame rates
● 128-bit full floating point precision enables billions of color variations to render the same lighting and effects as Hollywood studios
● Full AGP 8X support doubles available bandwidth for the most engaging gameplay in its class
● Enjoy better performance and 3D imagery in multimedia, games and applications with Microsoft® DirectX® 9 optimized architecture
● DirectPlay of the Microsoft® DirectX® 9 brings improved multiplayer access to groups connecting over LANs and the Internet
● Supported by CATALYSTTM™, the industry☐ most stable 3D acceleration software
● Also supporting the latest OpenGL® functionality and feature sets
● Optimized to run the most demanding 2D and 3D next-generation games and applications without putting extra strain on the CPU
● FULLSTREAM™ removes blocky artifacts from streaming Internet video to deliver smoother looking, higher quality online content
● VIDEO IMMERSION™ integrates features to provide unprecedented support for digital and high definition video
● RADEON™ 9550 Visual Processing Unit (VPU)
● Enjoy long-term compatibility with the hottest Microsoft® DirectX® 9 gaming releases and backwards-compatibility with your favorite titles
● Display Support
    - VGA connector for analog CRT
    - S-video connector for TV / VCR
    - DVI-I connector for digital flat panel
    - Independent resolutions and refresh rates for any two connected displays
● 4 parallel rendering pipelines and 2 parallel geometry engines
● AGP 8X support
● Support TRUFORM™ 2.0 and VIDEOSHADER™
● MPEG-2 decoding with motion compensation, iDCT and color space conversion
● Adaptive de-interlacing and frame rate conversion