N1996

MICRO-STAR INT'L
MS-V099

CAUTION!!
Do not force the GPU cooler against the fragile GPU to avoid damage to the GPU.

WARNING!!
DO NOT touch the cooling system since it may produce a certain heat while processing tasks.

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

G52-V0992X4
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Installing MSI Live Update

MSI Live Update offers you with brand-new update service experience, which can significantly save your time while searching files. MSI Live Update is capable to automatically analyze and list drivers, BIOS, and utilities you need. With the easy-to-use updating approaches, you can increase the performance of your system easily and quickly. Follow the instructions below, with a few mouse clicks, you can acquire the related files for the system updating.

Installing from the Disk

1. Insert the supplied disk 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.** Follow the on-screen instructions to complete the installation.

Installing from the MSI Web Site

1. Link to MSI's website at http://www.msi.com.tw

2. Find and click **Live Update Online** on the left side of the web page to enter MSI Download Center.

3. Click **Start to Check** to download the Live Update application.

4. Click **Install** the continue.

5. Follow the on-screen instructions to complete the installation.

6. Launch MSI Live Update and to enter the main page of this utility as shown here.
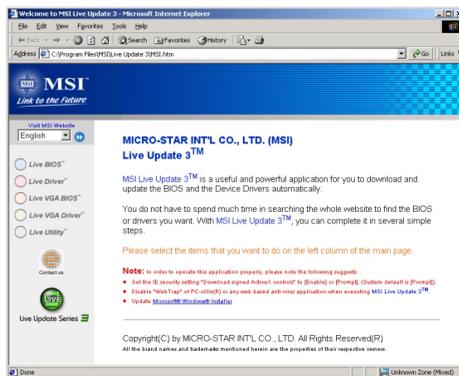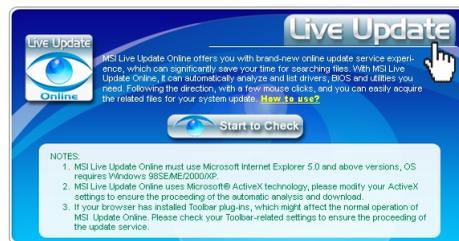
Using MSI Live VGA Driver Update

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.
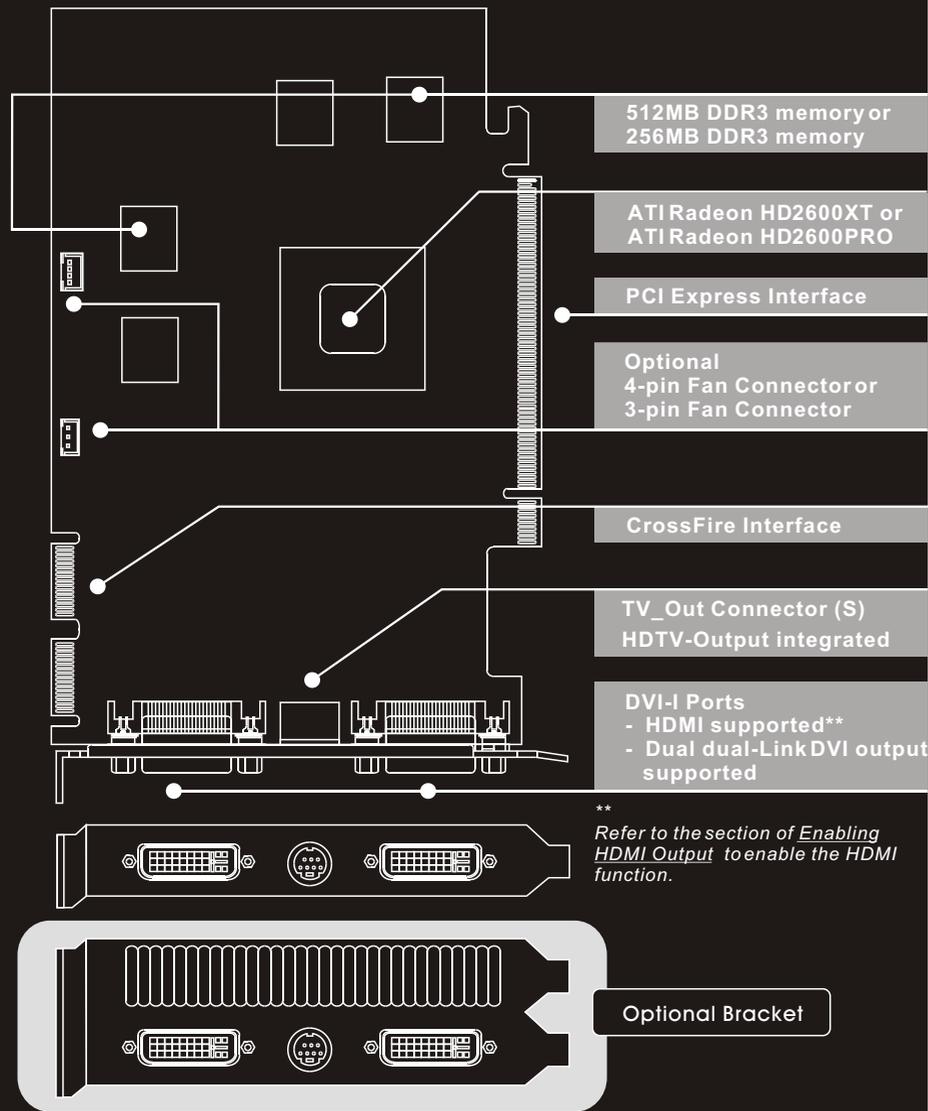
Using MSI Live VGA BIOS Update

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 User's Guide

RX2600XT series
RX2600PRO series

MSI
MICRO-STAR INTERNATIONAL

512MB DDR3 memory or 256MB DDR3 memory

ATI Radeon HD2600XT or ATI Radeon HD2600PRO

PCI Express Interface

Optional
4-pin Fan Connector or 3-pin Fan Connector

CrossFire Interface

TV_Out Connector (S)
HDTV-Output integrated

DVI-I Ports
- HDMI supported**
- Dual dual-Link DVI output supported

**
Refer to the section of Enabling HDMI Output to enable the HDMI function.

Optional Bracket

Note: The VGA card shown here may vary from the actual card.
For further information, please visit MSI website at www.msi.com.tw

Unpacking

Please check out the following items to make sure that you get the complete product:
● VGA card
● Disk: Drivers, documentation, and applications
▶ 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® III™ (and above), AMD® K7® (and above), or compatible with expansion slot
● 128MB of system memory
● Installation software requires CD-ROM drive
● Operation System Support: visit MSI website for further information
● Power supply of 400 (and up) watt is highly recommended for system stability
● For DVI-HDMI adapter, please visit **http://ati.amd.com/** to get the compatible mainboard information.

Card Features   For reference only

● Fully DirectX 10.0 compliant, including full speed 32-bit floating point per component operations
    - Full symmetry on both heads.
    - Shader Model 4.0 geometry and pixel support in a unified shader architecture:
    - Full speed 32-bit floating point processing per component.
    - High dynamic range rendering with floating point blending, texture filtering and anti-aliasing support.
    - High performance dynamic branching and flow control.
    - Advanced shader design, with ultra-threading sequencer for high efficiency operations.
    - Advanced, high performance branching support, including static and dynamic branching.
    - Full anti-aliasing on render surfaces up to and including 128-bit floating point formats.
    - Support for OpenGL R 2.0

● Anti-Aliasing Filtering:
    - 2x/4x/8x modes.
    - Sparse multi-sample algorithm with gamma correction, programmable sample patterns, and centroid sampling.
    - Temporal anti-aliasing.
    - Adaptive anti-aliasing mode.
    - Lossless color compression (up to 8:1) at all resolutions, up to and including widescreen HDTV.

● Anisotropic Filtering:
    - 2x/4x/8x/16x modes
    - Up to 128-tap texture filtering.

● Advanced Texture Compression (3Dc+™):
    - High quality 4:1 compression for normal maps and luminance maps.
    - Works with any single-channel or two-channel data format.

    - New vertex cache and vertex fetch design, to increase vertex throughput from previous generations.
    - New multi-level texture cache to give optimal performance, greater than 8x the previous designs.

● High efficiency ring bus memory controller:
    - Programmable arbitration logic maximizes memory efficiency, software upgradeable.
    - Fully associative texture, color, and Z cache design.
    - New hierarchical Z & Stencil buffers with Early Z Test.
    - New lossless Z-buffer compression for both Z and Stencil.
    - Fast Z-Buffer Clear.
    - Z cache optimized for real-time shadow rendering.

● Integrated HD Audio Controller (Azelia) and Codec
    - Integrated HD Audio codec supports linear PCM and DolbyR Digital (5.1) audio formats for HDMI output.
    - Uses Microsoft UAA driver.
    - Internally connected to the integrated HDMI interface, hence no external cable required.
    - PCI device id: AA10h (Azalia), AA11h (Audio Codec).
    - Support for basic audio (32, 44.1 or 48 kHz stereo) and DolbyR Digital or DTS at the same sample rates.

● DVI/HDMI Features
    - Fully compliant with the DVI electrical specification.
    - Fully integrated DVI/HDMI Interface
    - Supports one single link DVI or one HDMI link (HDMI output on single-link TMDS1 only).
    - Meets Vista logo requirements.
    - 1650 Mbps/channel with 165 MHz pixel clock rate per link.
    - Supports industry standard EIA-861B video modes including 480p, 720p and 1080i. For a full list of currently supported modes, contact your AMD CSS representative.

● Avivo™ Display System -- Dual DACs & MPEG 1/2/4 decode and encode acceleration:
    - Dual-link support for display resolutions up to 3840x2400 per display output.
    - Flexible support of the following configurations: CRT + DVI/HDMI, TV + DVI/HDMI, DVI/HDMI + DVI/HDMI.
    - Maximum pixel frequency of 400 Mhz.
    - HDCP support available on all DVI and HDMI links with integrated key storage for up to two simultaneous outputs including dual-link DVI. (Note: HDCP available only to HDCP licensed buyers).
    - iDCT/DCT and color space conversion
    - HW DXVA parser support for iDCT
    - MPEG-4 Simple Profile support
   - All-format DTV/HDTV decoding.

Enabling HDMI Output
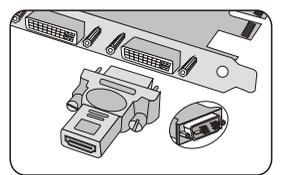
Follow the steps below to enable HDMI Output function:
1. Find the DVI-to-HDMI adapter that comes with the package, if provided. Consult your dealer to purchase the adapter if it is not provided.
2. Attach the DVI-to-HDMI adapter to the DVI connector.
3. Ensure that the adapter is firmly installed.

Hardware

Follow the steps below to install the VGA card:
1. Remove the computer case.
2. Locate the expansion slot on your mainboard. Warning: Inserting the VGA card into a wrong slot may damage your card (refer to your mainboard manual for more Information).
3. Put the card directly over the expansion slot and press one end of the card into the slot first. Gently but firmly press the other end until the card 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.
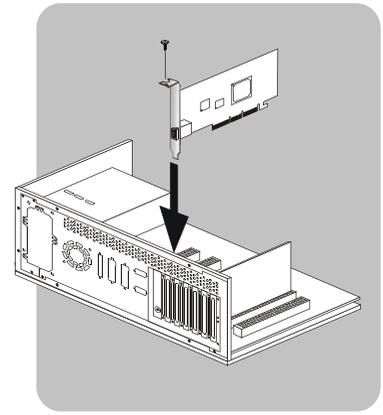
Software

To install the driver of the VGA card to your computer, 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:

Browse CD   Exit

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.