

Tachyon Graphics Monitor

User's Guide Version 3.0

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Tachyon Graphics Monitor 3.0



PART I: Introduction to the Tachyon Graphics Monitor (TGM) 3.0

The Tachyon Graphics Monitor (TGM) is a system utility for Windows® that was specially designed by Tyan Computer for Tachyon Series Graphics Cards. Tachyon Graphics Monitor 3.0 allows you to separately tune the speed of the VPU's core engine clock and the memory clock, monitor in real-time your hardware's key indicators, and regulate the fan speed for optimal acoustics in your system. For all questions regarding TGM software, please send email to tgm@tyan.com.

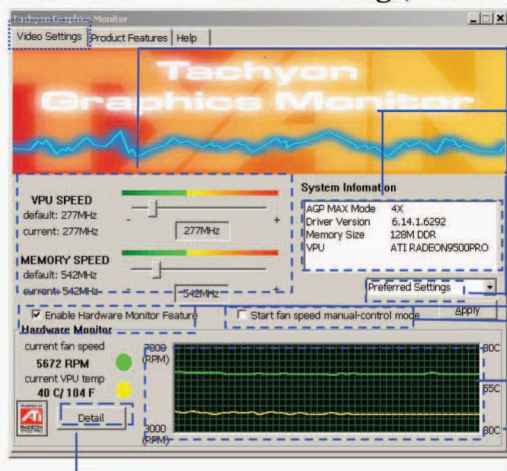
PART II: System Requirements for TGM 3.0

- Tachyon G9800/9700/9600/9500 Series Graphics Card is needed to use Overclocking Utility.
- Tachyon G9600/9500/9200 Series Graphics Card is needed to use Fan Speed Adjustment Feature.
- Please check <http://www.tyan.com/support/html/tgm.html> for the latest TGM updates.
- Windows 98, ME, 2000, and XP support.

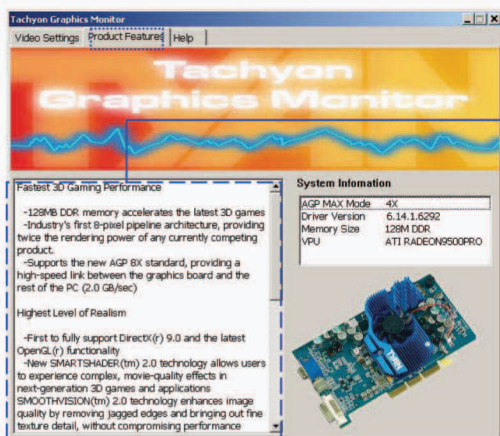
PART III: TGM 3.0 Installation

- Insert the Driver CD into your CD-ROM.
- If Windows® DOES NOT run automatically, click **Start->Run**. Type **D:\TyanSoft.exe** (If **D** is not your CD-ROM drive, substitute with the correct drive letter.) Click **OK**.
- Click on **Install Software**. Click on **Tachyon Graphics Monitor**. The Installation Wizard will begin. Carefully follow the on-screen directions to complete installation.

PART IV: Video Settings, Product Features and Help Windows

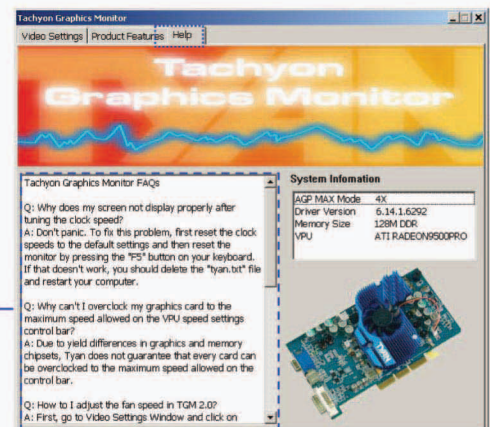


- Separate VPU and Memory Speed Tuning Slide Controls
- Key System Information Display
- Default/ Preferred Settings Menu and Apply Settings Button
- Enable/Disable Hardware Monitor Feature Button
- Enable/Disable Fan Speed Manual-Control Mode Button
- Real-time Hardware Monitor Graph
- Hardware Details Window Button



A short list of your Tachyon Graphics Card's exciting and unique features

A list of FAQs about the TGM and your Tachyon Graphics Card



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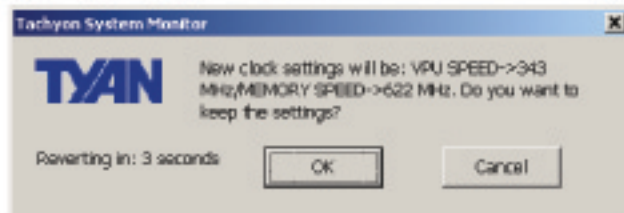


PART V: Overclocking your Tachyon Graphics Card



Under “VPU SPEED,” you will find both the factory default speed setting and the current speed of the VPU. Under “MEMORY SPEED,” you will find both the factory default setting and the current speed of your memory. In order to change the speed of the VPU or memory, first point and click on the slide control button provided and then pull the button to the right (increase) or to the left (decrease) until the desired speed is selected. Second, you must click the “Apply” button

located under the System Information display to execute the desired settings. In the drop down menu located under the System Information display, you will see two choices: “Default Settings” and “Preferred Settings.” “Default Settings” will set the VPU and memory speed back to the factory default settings. “Preferred Settings” will set the VPU and memory speed back to the last applied personal settings. After you click the “Apply” button, a confirmation dialog window will appear. This window will display the desired clock speed settings. Confirm these settings by clicking “OK” or cancel these settings by clicking “Cancel.” You



will have ten seconds to make your decision or the new settings will be canceled. If canceled, the TGM will automatically set the VPU and memory speeds back to the last applied personal settings. Please remember that overclockability is not guaranteed.

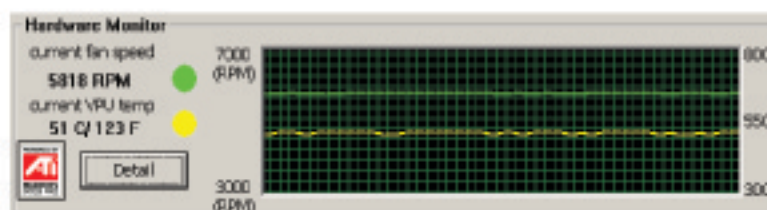
PART VI: Understanding the System Information Display

System Information	
AGP MAX Mode	4X
Driver Version	6.13.10.6193
Memory Size	128M DDR
VPU	ATI RADEON9700PRO

When loaded, the TGM will automatically extract the following information: AGP MAX Mode, Driver Version, Memory Size and VPU model. “AGP MAX Mode” refers to the maximum AGP bus mode supported by your motherboard. “Driver Version” refers to the current driver version installed with your graphics card. Compare this information with the driver version available on the Tyan website to

determine whether or not you have the latest driver. Installing the latest driver update may give you new software functions and improve your card’s performance. “Memory Size” refers to the amount and type of memory on your Tachyon graphics card. “VPU” refers to the specific model of the graphics processor used on your card.

PART VII: Reading the Hardware Monitor



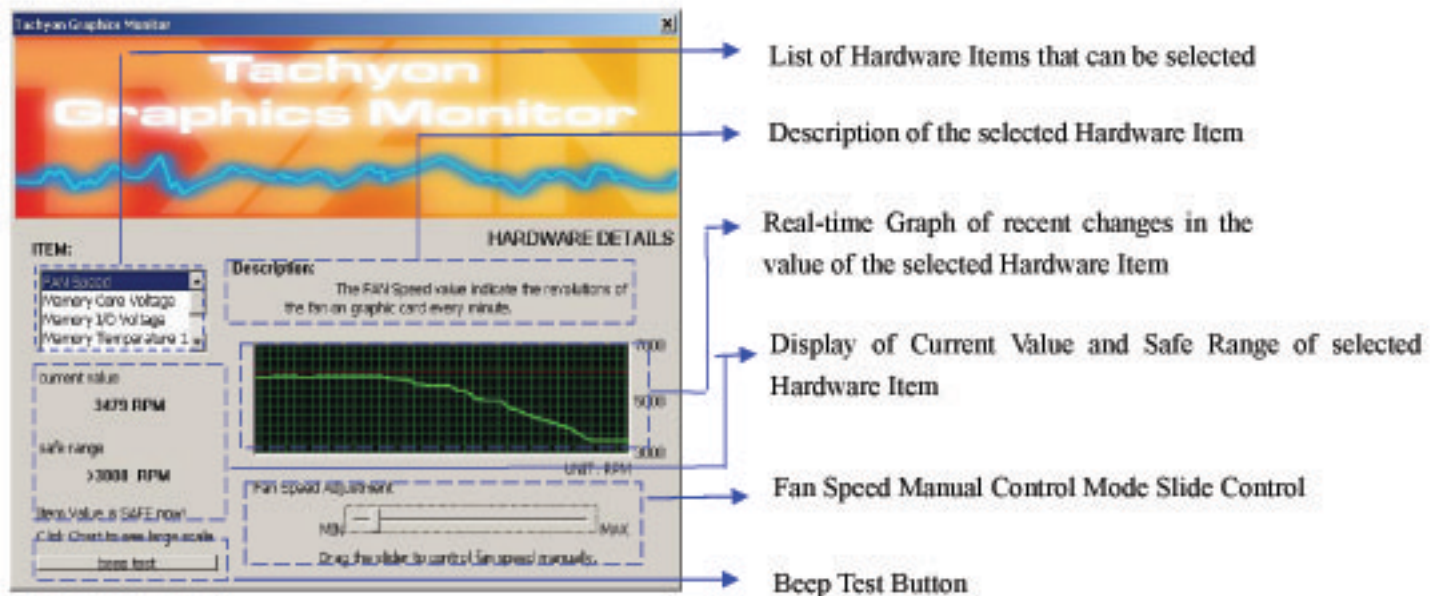
The TGM’s Hardware Monitor was designed to help you determine in real-time the safety of your system by monitoring key indicators such as fan speed and VPU temperature. To enable the Hardware Monitor, go to the main Video Settings Window and click on the “Enable Hardware Monitor Feature” button.

****NOTE: PLEASE DISABLE the Hardware Monitor while using graphic intensive applications like computer games or benchmarks.** As the Hardware Monitor shares the same AGP bus, the performance of your applications and the hardware indicator readings in the TGM will be affected. However, even if the Hardware Monitor is disabled or the TGM Window is closed, the program will still beep if one of the Hardware Items falls below or exceeds the designated safe range.

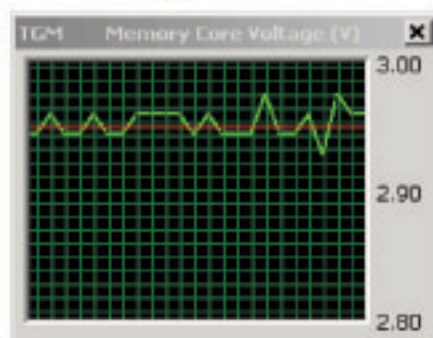
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PART VIII: Hardware Details Window



To view the status of hardware items other than VPU temperature and fan speed, click on the "Detail" button in the main Video Settings Window. In the Hardware Details Window, you can choose from a list of several hardware items such as Fan Speed, VPU Voltage, and VPU Temperature. The exact number of items depends on which Tachyon Series you are using. In each graph, the Y-axis was set according to the "safe range." The thin red line indicates the recommended value of the hardware item being monitored. **Please note that this value is just a reference point.** The card is considered "safe" as long as the "current value" remains within the indicated "safe range." If any of the hardware item indicators



should exceed or fall below the designated "safe range," then your graphics card will alert you by making a beeping sound. If you click on the main graph in the Hardware Details Window, another higher resolution graph will pop up in a separate window. This graph allows you to view in more detail the slightest changes in each hardware item's value. You can think of these real-time graphs as helping you to "monitor the heartbeat" of your Tachyon graphics card. To familiarize yourself with the sound of the beeper on your card, please click on the "beep test" button.

PART IX: Fan Speed Adjustment (Currently available on G9600/G9500/G9200 Series)

Reducing the fan speed will lower the overall noise level in your PC system for a more pleasant work environment. First, go to the Hardware Details Window and select "Fan Speed" in the Hardware Item List. Next, point and click on the slide control and then pull the button to the desired acoustic setting. If you click on the "Start fan speed manual-control mode" button in the main Video Settings Window, the TGM will automatically set the fan speed back to the last applied manual settings. If you wish to change the setting, please go to the Hardware Details Window and use the slide control to set the fan to the desired speed.

****NOTE:** Except on the G9200 Series cards, the TGM will not allow you to completely stop the fan, as that may cause damage to your graphics card. If you forget to re-adjust the fan speed while you are using graphics intensive applications, the TGM will automatically return the fan to the MAX speed once the VPU hits 60 degrees Celsius.