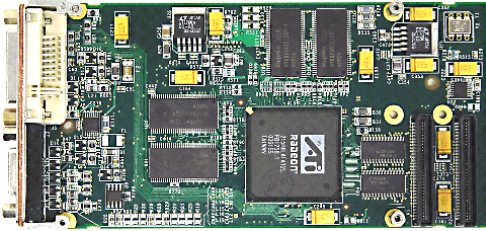


# TGA-7000 Graphics Adapter



## High Performance, Low Cost PMC 2-D Graphics Adapter with Dual-Display Support

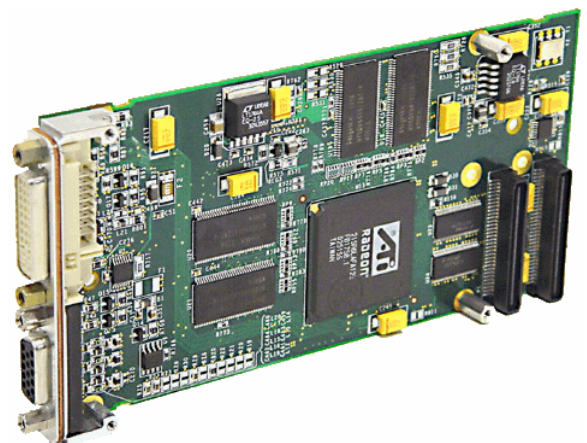
Themis' TGA-7000™ graphics accelerator is a high-performance, low-cost, 2-D graphics solution. Offered in a PMC form factor, the TGA-7000 utilizes the ATI Radeon 7000 graphics chip and operates with Themis' TA64™ VMEbus single-board-computer.

The TGA-7000 provides users in Solaris™, Linux®, and Windows® -based environments high screen resolutions, up to 1920 x 1200, while displaying up to 16.7 million colors. A DVI digital connector provides support for Panellink compatible displays. In addition, a VGA port provides connection to analog CRT and analog flatpanel monitors.

HD-15 and DVI-I video connectors provide users with both digital and analog video outputs as well the ability to drive two displays at up to 1280x1024 resolution.

### TGA-7000 Features

- ATI Radeon 7000 graphics engine
- Low cost graphics adaptor provides 2-D, 24-bit color graphics
- 64MB DDR SDRAM
- 32-Bit, 33-/66-MHz
- Triple 8-bit palette DAC supports pixel rates up to 350 MHz
- Dual-display and high resolution support
  - 24-bit support for up to 1280 x 1200 resolutions @ 75 Hz
- Open GL compatible
- Designed for TA64 processor card
- Operating resolutions:
  - Single display - 640x480 to 1920x1200 (24-bit)
  - Dual display - 640x480 to 1280x1024
- Solaris 9 and 10, Linux and Windows support



### TGA-7000 Specifications

- PMC Form Factor
- PCI version 2.2 with full bus mastering and scatter/gather support
- Triple 8-bit palette DAC supports pixel rates up to 350MHz
- Two independent CRT controllers to support two asynchronous simultaneous display paths
- DDC1 and DDC2B+ for plug and play monitors
- Single channel 128-bit memory interface using SDRAM to build 64MB configurations (Operating frequency is 67MHz minimum to 183MHz maximum, SDR or DDR)
- Video Connectors: VGA Analog
  - HD15
  - DVI digital
- Shock (Operating): up to 40G @ 20 ms
- Vibration (Operating): 0.5g from 4 – 50Hz (Non-Operating) 1.0g from 4 – 50Hz
- Temperature Range (Operating): -5 - 55°C
- Temperature Range (Non-Operating): -40 - 85 °C
- Humidity: 10 – 95% non-condensing
- Power Reqts.: +5V (± 5%) @ 1.2 Amps maximum
- Power Consumption: 6Watts
- Dimensions (HxD): 2.952" (75mm) x 5.905" (150mm)
- Weight: approximately 3.5 oz.
- Operating resolutions – 640x480 to 1920x1200 (1280x1024 on DVI port)
- Solaris 9 and 10, Linux, and Windows Operating Environment support
- OpenGL

# Themis Computer TGA-7000 Graphics Adapter



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