

## LAT720-D Graphics Card

### CHIPSET

- ATI Radeon E2400

### MEMORY

- 128MB GDDR3 DRAM integrated in the chipset

### PCI EXPRESS INTERFACE

- Supports x16 PCI Express bus interface
- PCI Express 1.0a and PCI Express 1.1 compliant

### 2D ACCELERATION FEATURES

- Hardware acceleration is provided for BitBLT, line drawing, polygon and rectangle fills, bit masking, monochrome expansion, panning and scrolling, scissoring, and full ROP support (including ROP3)
- Optimized handling of fonts and text using AMD proprietary techniques
- Game acceleration including support for Microsoft's DirectDraw: double buffering, virtual sprites, transparent BLT, and masked BLT
- Acceleration in 8/15/16/32-bpp modes

### 3D ACCELERATION FEATURES

- Fully DirectX 10.0 compliant, including full speed 32-bit floating point per component operations
- Support for OpenGL® 2.0
- Anti-Aliasing filtering
- Anisotropic filtering
- Advanced Texture Compression (3Dc+™)
- HW support to overcome "Small batch" issues in CPU limited applications
- 3D resources virtualized to a 32b addressing space, for support of large numbers of render targets and textures
- High efficiency ring bus memory controller

### MOTION VIDEO ACCELERATION FEATURES

- Video scaling and fully programmable YCrCb to RGB color space conversion for full-screen / full-speed video playback and fully adjustable color controls
- VIDEOSOAP™ noise removal filtering for captured video
- Hardware I2C
- Up to 150MHz ITU-656 compatible video capture port with I2C and/or 2 bit VIP host data sideport interfaces for control and audio interface to external video capture devices
- MPEG1/2/4 decode and encode acceleration

### DVI FEATURES

- Supports one single link DVI. Max resolution is 1920 x 1200
- 1650 Mbps/channel with 165 MHz pixel clock rate per link
- Supports industry standard EIA-861B video modes including 480p, 720p and 1080i.
- Dithering and frame modulation from the 30-bpp internal pipeline to 18 or 24 bit panels through the internal TMDS macro or external TMDS output
- Fully compliant with the DVI electrical specification

### LVDS FEATURES

- LVDS can operate in either single or dual channel mode
- Fully compliant with electrical specification of ANSI/TIA/EIA-644
- LVDS supports the following resolutions:
  - 640x480, 18-bit
  - 800x600, 18-bit
  - 1024x768, 18-bit
  - 1024x768, 24-bit
  - 1280x1024, 48-bit

### DUAL DISPLAY FEATURES

- Dual display in DOS or Windows
  - When LVDS enabled: LVDS/DVI, LVDS/CRT1
  - When LVDS disabled: DVI/CRT1, CRT1/CRT2Note: CRT2 = DVI-I (analog)
- 2 Integrated triple 10-bit DACs with built-in reference circuit
- Maximum pixel frequency of 400MHz
- Support for stereo sync signal to drive a 3D display
- Fully compliant with electrical specification of VSIS

### VIDEO OUTPUT INTERFACE

- 1 DVI-I connector
- 1 DB15 VGA connector
- 1 LVDS connector

### TEMPERATURE

- -20°C to 70°C

### HUMIDITY

- 0% to 90%

