

# CARDEXpert VANTA

## Your Graphics Advantage

### Based on the NVIDIA Vanta Twin-Texel 32-bit 2D/3D Graphics Engine

- 66 MHz AGP clock rate and AGP 4X/2X mode
- 250 MHz Palette-DAC Supports up to 1600x1200 @ 85Hz
- 64-bit Wide Frame Buffer Interface Supports up to 16 MB SDRAM
- DVD Sub-Picture Alpha-Blended Compositing
- LCD Resolution up to 1280x1024 and Color Depths up to 16 Million
- Video Acceleration for DirectShow MPEG-1, MPEG-2 and Indeo

### Features

- NVIDIA Vanta Twin-Texel 32-bit Graphics Engine.
  - 2 Texture-mapped, Lit Pixels per Clock
  - Single Pass Multi-Texture Rendering
- 24-bit or 16-bit Z-buffer, 8-bit Stencil Buffer
- High Performance 128-bit 2D/GUI/DirectDraw Acceleration
- 64-bit Wide Frame Buffer Interface Supports up to 16 MB SDRAM
- 250 MHz Palette-DAC Supports up to 1600x1200 @ 85Hz
- Variable Length Burst DMA Bus Mastering for Data transfers over 900 MB/s Throughput
- 66 MHz AGP clock rate and AGP 4X/2X mode
- Optimized for Katmai New Instructions and 3Dnow!
- TextureBlend Supports Multi-texturing, Bump-mapping, Texture-modulation, Light Maps, Reflection Maps, Detail Textures, Environmental Maps, Procedural Textures
  - 32-bit ARGB Rendering with Destination Alpha
  - Point Sampled, Bilinear, Trilinear and 8-tap Anisotropic Filtering
- Per Pixel Perspective Correct Texture Mapping
  - Fog, Light, and Mip Mapping
- Wide Cache RAM and 256-bit Data path.
- 64-bit Graphics with over 1GB/s Throughput.
- Minimal Software Overhead on Key GDI Calls and DirectDraw
- Optimized Direct Frame Buffer (DFB) Access with Write-combining
- Palette-DAC Pipeline Accelerates Full-Motion Video Playback, Sustaining Fast Frame Rates with High Quality Color Resolution
- True Bilinear Filtering for Scaled Video, and Compensation for Filtering Losses with Edge Enhancement Algorithms.
- Back-end Hardware Video Scaling for Video Conferencing and Playback
- Multiple Video Windows with Hardware Color Space Conversion and Filtering
- DVD Sub-Picture Alpha-Blended Compositing
- Video Acceleration for DirectShow MPEG-1, MPEG-2 and Indeo
- Supports the PanelLink Digital Interface for LCD monitor
- LCD Support for VGA,SVGA,XGA,SXGA 18/24 TFT Color Monitors
- LCD Resolution up to 1280x1024 and Color Depths up to 16 Million
- VESA EDID Support for LCD Type Auto-Detect

### DRIVER SUPPORT

- Microsoft Windows 98/95/NT4.0
- Microsoft Windows 2000(Optional)
- DirectX
- OpenGL ICD

### REFRESH RATE TABLE

	8/16MB			
	256 color	64K color	16.7M color	
640x480	240Hz	240Hz	240Hz	240Hz

<b>800x600</b>	240Hz	240Hz	240Hz	240Hz
<b>1024x768</b>	200Hz	200Hz	200Hz	200Hz
<b>1280x1024</b>	120Hz	120Hz	120Hz	120Hz
<b>1600x1200</b>	85Hz	85Hz	85Hz	85Hz