

**8MB**

# 128-bit 3D Multimedia Accelerator

## Preliminary Specifications

### WINNING PERFORMANCE

- NVIDIA RIVA 128 ZX™ 3D Graphics and Multimedia Engine
- True 128-bit Processing Power
- 8MB of 128-bit SGRAM Memory with 1600MB/sec Bandwidth
- MPEG-2 Compatible Digital Video Engine
- 250MHz RAMDAC Supports Refresh Rates Up to 160Hz and Resolutions Up to 1600x1200
- Microsoft Windows 95 and NT 4.0 Compatible
- AGP 2X or PCI bus



The VELOCITY 128™ delivers the maximum in high refresh rate 2D graphics, Complete Direct 3D hardware acceleration and high resolution MPEG video playback for both business and entertainment applications. With 8MB of super fast SGRAM and AGP texture transfers, VELOCITY 128 opens up a virtually unlimited pathway to visual realism and high performance.

# VELOCITY 128

MAXIMUM ACCELERATION



## POWERFUL FEATURES

- Extra large on-chip Texture Cache and Vertex Cache deliver unsurpassed polygon throughput
- Capable of a sustained 3D performance of over 1.25M Textured, Bilinear Filtered, Perspective Corrected, MIP-mapped, Gouraud-shaded, Z-buffered polygons per second and over 50 million pixel per second fill rate with all features enabled
- 32-bit high performance Windows 95 and NT 4.0 display drivers including DirectX (Direct3D) and OpenGL support
- Digital Video Engine supports YUV-RGB Color Space Conversion and filtered X/Y interpolation for superior quality playback and scaling of MPEG (or other standard format) video in a window or full screen
- Microsoft WHQL (Windows Hardware Quality Labs) certified drivers for Windows 95 and high performance 32-bit Windows NT 4.0 display drivers
- Includes STB VISION 98™ desktop utility and productivity software
- FCC Certification & CE Mark

### Composite Video Line Output Connector

Connect to your TV to view video on your television.  
Models with TV Out option only.

### Digital Video Port

High-speed interface for other multimedia peripherals.

### 128-bit SGRAM Memory

Comes with 8MB of incredibly fast SGRAM – 1600MB/sec bandwidth to really fly!

### NVIDIA RIVA 128 ZX™ 3D graphics engine

Get the maximum performance with true 128-bit bandwidth.

### S-Video Output Connector

Connect here to view S-Video output on your S-Video compatible TV.  
Models with TV Out option only.

### SVGA-Compatible Monitor Connector

Connect to any Super VGA standard multi-frequency monitor.

### Video Encoder

Converts computer output for display on your TV.  
Models with TV Out option only.

### AGP Bus Connector

Intel's latest bus technology dedicated to high-performance multimedia graphics.  
PCI bus model also available.

## Advanced 3D Rendering Features

- Gouraud Shading for smoother, more realistic shading effects
- Z-buffering for faster 3D performance
- Bilinear and Anisotropic Filtering for more realistic views
- MIP-Mapping for better resolution of texture maps
- Alpha Blending for complete or partial transparencies on smoke and fog effects
- Perspective Correction for proper perception of depth
- Video Texture Mapping to place video clips into images
- Floating Point Polygon Setup to reduce the CPU's workload
- Double-Buffering for realistic animation effects
- Anti-Aliasing for smooth 3D edges

## REFRESH RATES (Hz)

Colors ▶ Resolutions ▼	256	65K	16.7M	Recommended Monitor Size
640x480	60,72,75,85,100,120,140,160	60,72,75,85,100,120,140,160	60,72,75,85,100,120,140,160	14+
800x600	56,60,72,75,85,100,120,140	56,60,72,75,85,100,120,140	56,60,72,75,85,100,120,140	15+
1024x768	88i,60,70,75,85,100,120	88i,60,70,75,85,100,120	88i,60,70,75,85,100,120	17+
1280x1024	88i,60,75,85	88i,60,75,85	88i,60,75,85	21+
1600x1200	96i,60,65,70,75,80,85	96i,60,65,70,75,80,85	60	

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