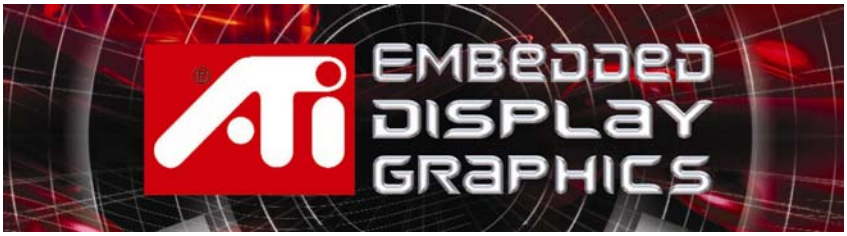

RAGE™ MOBILITY™ and RAGE™ MOBILITY™ M1
Product Snapshots

The RAGE™ MOBILITY™ M and RAGE™ MOBILITY™ M1, ATI's third generation of graphics and multimedia accelerators, offer an extensive feature set, up to 8MB of integrated memory, and low power consumption while delivering outstanding performance.

Package Specifications

- ***Package, Size:*** 328 BGA, **MOBILITY™ M**: 27mm x 27mm, **MOBILITY™ M1**: 31mm x 31mm

Graphics Processor Specifications

- ***Process technology, Core Voltage:*** 0.25um, 2.5V
- ***Graphics Clock:*** 83 MHz

Memory Specifications

- ***Memory Type:*** NEC 1MBx16 SDRAM (M & M1); Micron 1MBx16 SDRAM (M1)
- ***I/O Type, VDDC:*** SSTL, 3.3V
- ***Memory Clock, Max Memory Path:*** 125 MHz clock, 64 bit width
- ***Maximum Memory Configuration:*** 8 MB (Mob. M = 4MB int. + 4MB ext., Mob. M1 = 8MB int.)

Bus Specifications

- ***AGP bus support/ PCI bus support::*** AGP 2X (3.3V) / PCI 2.1

Outputs

- ***CRT1 (Primary):*** Triple 8-bit palette DAC, 230MHz
- ***CRT1 (Secondary):*** Triple 8-bit palette DAC
- ***Integrated LVDS:*** - Dual Channel LVDS up to 112 MHz per channel
  - Supports 18 bit and 24 bit modes for both single and dual channel LVDS.
  - TFT & DSTN Panel support
- ***Integrated TV encoder:*** Shares the Secondary DAC
- ***DVO (TTL):*** Supports 18/24 bit SDR mode
- ***Supported Display Combinations:*** LVDS + CRT/TV

Resolution Support

- ***Max 2D/3D resolution*:** 8MB: 1600x1200/1280x1024; 4MB: 1280x1024/800x600
- ***Max color depth***: 16.7M Colors
- ***LVDS, TV-out:*** 1280x1024, 1024x768

Driver Support

- Win 98/ME/2000/XP/NT, Linux (Please see your technical contact for alternate OS support)

Video Support

- Video on graphics overlay, color space conversion (YUV to RGB)
- MPEG-2 hardware decode acceleration

Brief Overview of 2D/3D Support

- Hardware acceleration of BitBlit, Line Draw, Polygon/Rectangle fill, Bit Masking
- Complete 3D primitive support, edge anti-aliasing, gouraud, specular shading, texture mapping

RAGE™ MOBILITY™ and RAGE™ MOBILITY™ M1
(Continued)

Power Consumption			
Test	**Mode**	**Average Power (W)**	
		LVDS Panel Only	*LVDS Panel + CRT + TV*
Static Display	1024x768x16 bpp 60 Hz AGP 2x	0.807	1.224
2D + 3D + Video In		1.372	1.879
3D Winbench 99		1.209	Not measured
Standby	Standby	0.327	0.330
Suspend	Suspend	0.00483	0.00483
Test	**Mode**	**Maximum Power (W)**	
		LVDS Panel Only	*LVDS Panel + CRT + TV*
2D +3D + Video In	1024x768x16 bpp 60 Hz AGP 2x	1.472	1.952
3D Winbench 99		1.626	Not measured

Block Diagram