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TECHNOLOGY GROUP

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Graphics cards
Upgrades
All about DualHead
Comparison charts
Product selector
Pricing



Features

Specifications

- **0.18 micron technology**
  Lower heat emission and power consumption

- **AGP 1X, 2X, 4X or PCI**
  Compatibility with the newest chipsets and motherboards; transfer rates of up to 1 GB/sec

- **RAMDAC**
  -360 MHz for primary display (at resolutions up to 2048 x 1536 @ 32 bpp)
  -230 MHz for secondary display (at resolutions up to 1600 x 1200 @ 32 bpp)
  -Multi display resolutions up to 1600x1200 @ 32bpp on both displays

- **Memory**
  AGP: 32 MB Double Data Rate (DDR)*
  PCI : 16 MB Double Data Rate (DDR)*

- **Supported 3D APIs**
  OpenGL and DirectX

- **256-bit DualBus**
  Ultra-fast graphics acceleration, with true 32-bit color at high resolutions

- **Integrated TV encoder**
  S-video and composite video TV output (at resolutions up to 1600 x 1200 @ 32bpp)

Features

- **DualHead® display technology****
  Two independent displays powered by one chip, with a full range of configuration options (VGA, analog flat panel, and TV)
  DualHead Demo

- **VCQ¸ rendering**
  Eliminates artifacts and color banding in richly colored single- and multi-textured polygons

- **EMBM**
  Integrated hardware support for DirectX Environment-Mapped Bump Mapping

More info...
Features
Technical info
Product support
Software bundle
Awards & Reviews
Buy now
Comparison chart
Millennium G450 series

ABCs of Graphics Cards

Back to...
Millennium G450

- **UltraSharp DAC**
  High-quality analog signal for crisp text and windows at the most demanding solutions

- **High-quality DVD playback**
  Full-frame-rate DVD playback with superior image quality

- **3D rendering**
  Full-featured 3D @ 2048 x 1536 in 32-bit color (16 million colors)

Color and refresh rates***

2D / 3D Colors	2D / 3D Resolutions
16 million	2048 x 1536

Resolution	Vertical (Hz)	Horizontal (kHz)
2048 x 1536	85	110
1920 x 1440	85	115
1800 x 1440	90	120
1600 x 1200	100	130
1280 x 1024	120	130
1152 x 864	140	130
1024 x 768	160	130
800 x 600	200	130
640 x 480	200	130

* All available retail boards use DDR memory. Some bulk boards use SDR memory. Click here for details.
** The level of DualHead® capability is determined by the operating system. Click here for details.
*** Primary display.

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