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Matrox G450

chip fact sheet

General

Fabrication process	0.18-micron
Internal bus width	256-bit DualBus
Memory interface	64-bit Double Data Rate (DDR) memory (equivalent to 128-bit Single Data Rate)
AGP interface	AGP 1X, 2X, 4X
Frame buffer	8-32 MB
Integrated TMDS digital flat panel transmitter	✓
Integrated TV encoder	✓
Two integrated RAMDACS	✓
Max. 2D resolution at 24/32-bpp (primary display)	2048 x 1536

3D features

Single-cycle multi-texturing	✓
Max. 3D resolution at 32-bpp (primary display)	2048 x 1536
Environment-Mapped Bump Mapping (EMBM)	✓
Internal rendering	32-bit
Source textures	up to 32-bit
Maximum texture size	2048 x 2048
Hardware non-power-of-2 textures	✓
32-bit color output	✓
32-bit independent Z-buffer	✓
Stencil buffering	✓
AGP texturing	✓
Trilinear filtering	✓
Microsoft® DirectX® support	✓
OpenGL® support	✓

Display features

DualHead Display	
-DualHead Multi-Display mode	✓
-DualHead DVDMax mode	✓
-DualHead Zoom mode	✓
-DualHead Clone mode	✓
-DualHeadTV Output mode	✓
Different ways to pair VGA monitors, flat panel displays, and TVs	9 possible configurations*

*Display configurations on Matrox G450-based cards vary.

Independent flicker-free TV output support	✓
Single chip multi-monitor support	✓
Digital Visual Interface (DVI) support	✓

DVD & video features

Full frame rate, high quality DVD playback	✓
HW sub-picture blending for DVD	✓
Full access to Microsoft Windows® with independent full-screen DVD/video playback on TV	✓

Other features

OS Support*	Windows 95 Windows 98 Windows 2000 Windows NT® 4.0 Windows Millennium Edition IBM® OS/2 Warp® Linux

*The level of DualHead capability is determined by the operating system.

Platforms	AMD™ and Intel®
Driver optimizations	AMD 3DNow!™ Intel MMX™ Intel SSE
Plug-and-play AGP 2X and AGP 4X	✓

Chip information only. All features are not necessarily enabled in board-level products. Please visit the Matrox Web site for more information.

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Last updated July 11, 2000

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