

Millennium G200



Superior acceleration for 2D, 3D and DVD video



- High performance video card with full AGP 2X support
- Advanced 2D, 3D, and software DVD video acceleration
- High quality 3D rendering engine
- New MGA-G200 128-bit DualBus graphics chip
- 8 MB of graphics memory upgradeable to 16 MB
- High speed 250 MHz RAMDAC
- Fully multimedia upgradeable



The new Millennium G200 from Matrox introduces a new standard in home or business graphics. This video card delivers uncompromisingly high performance in 2D, 3D, and video without sacrificing the display quality and driver reliability that are so important to professional users and home users alike. Featuring the new MGA-G200 128-bit DualBus graphics chip, the Millennium G200 exceeds Matrox's previous record in leading 2D performance, and brings new levels of 3D acceleration and video playback to the PC. It also introduces new display enhancement features for superior image quality and 3D rendering precision. In addition, Millennium G200 minimizes the total cost of ownership with unified driver support for Windows, full optimization for Matrox's manageability tools, and complete upgradeability. 'Powered by Matrox' means you're getting the most advanced graphics and video technology in the industry along with reliable and trouble-free support.

Software included

Microsoft
Picture Publisher⁸

Microsoft
Simply 3D⁹

Includes
Netscape
Communicator

PointCast[™]



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Millennium G200 is faster in 24-bit color than the competition is at 16-bit



Advanced, New Graphics Technology

Millennium G200's superior performance in 2D, 3D, and video stems from its revolutionary new MGA-G200 graphics chip. Featuring a unique 128-bit DualBus architecture, its graphics chip uses two independent 64-bit buses to better manage data and process graphics faster than other 128-bit engines. In addition, the MGA-G200 graphics chip provides full AGP 2X support for faster data transfer rates, and supports up to 16 MB of fast, new synchronous memory for storing larger amounts of off-screen data. Millennium G200 is so powerful that it will run applications in 16.8M photo-realistic colors faster than the competition can with only 65K colors.

High Quality Displays

Millennium G200 uses a high speed 250 MHz RAMDAC to produce crystal clear displays and to eliminate annoying screen flicker. It supports true 24-bit color at resolutions of up to 1920 x 1200, bringing photo-realism to documents with incredible detail. Users can view entire spreadsheets or multiple applications all at once without tedious scrolling or zooming, making it the best choice for large screen monitors.

Advanced 3D Rendering

Millennium G200's advanced 3D features bring entry-level workstation performance to the PC. Its powerful 3D setup and rendering engine accelerates Direct3D and OpenGL applications with full 3D image effects. Its support for 16 MB of memory and new Vibrant Color Quality feature ensures superior image quality and rendering precision for CAD, 3D games, and much more. Capable of rendering target frames in true 32-bit ARGB, Millennium G200 provides 24-bit color rendering without color banding or quantization, along with a true 32-bit Z-buffer for exceptional rendering precision.

DVD and MPEG-1 Video

Millennium G200 uses a high performance video engine for high quality software MPEG-1 and MPEG-2 video playback. Fitted with both a front and back-end scaler, it offers exceptional image quality at high frame rates for seamless playback of today's multimedia CD and DVD titles. Millennium G200 can also be upgraded with a series of video add-ons, including hardware DVD for superior MPEG-2 video playback, and the Rainbow Runner G-Series for video editing and TV on the PC.

Unified Drivers

Matrox's unified drivers ensure easy manageability for companies looking to standardize with Matrox products across many departments. Because Matrox products use the same driver for each major operating system, MIS technicians can easily support all systems, and quickly update them with new driver optimizations for Windows® 98, 95, 3.11, NT and OS/2.

Feature	Benefit
MGA-G200 128-bit DualBus graphics chip	Provides superior performance for 2D, 3D, and video
8 or 16 MB of memory	Provides added performance and support for 24-bit color at up to 1920 x 1200
Full AGP* 2X support	AGP read and write support and texturing from system memory
250 MHz RAMDAC	Delivers fast screen refresh for flicker-free displays
3D acceleration	Full 3D setup and 32-bit rendering engine
Hardware accelerated 3D features	Supports advanced 3D features such as alpha-blending, bi-linear filtering, tri-linear MIP-mapping, fogging, anti-aliasing, and specular highlighting to deliver realistic 3D images
Vibrant Color Quality rendering	Delivers sharp contrast and crisp, clear colors for maximum photo-realism
Maximum 2D resolutions	1920 x 1200 in 16-bit color 1920 x 1200 in 24-bit color
Maximum 3D resolutions	1920 x 1080** resolution in 16-bit color, 1152 x 864 in 32-bit color
High quality video engine	High-speed software DVD playback
Matrox Diagnostic program	Software utility verifies the health of your Matrox video card and identifies possible problems
Desktop Management Interface	Allows installation of peripheral software via Internet or LAN intervention
Power Management	Allows ACPI systems to go into sleep mode and power-on faster
Minimum system requirements	AGP enabled system with 8 MB of memory, Windows 95 or NT, CD-ROM drive

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5GE-4895-D rev. 1 (Aug. 17, 1998)

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Matrox reserves the right to change product specifications without notice. All trademarks are the property of their respective owners. *Not compatible with AGP-NLX systems. **Double-buffering, no Z-buffer. All performance tests conducted using the Ziff Davis WinBench 98 High End and 3D WinBench 98 benchmarks under Windows 95 OSR2.1 on a Dell Pentium II - 400MHz with 64MB of RAM. Matrox Millennium G200, ATI Xpert@Work, Number Nine Revolution 3D and Diamond FireGL 1000 Pro were configured with 8MB of RAM for the AGP bus and using driver revision 4.00, 4.10.01.2312, 1.10.01.9371 and 4.10.01.2255 respectively. Diamond Viper V330 was configured with a maximum 4MB of memory for the AGP bus and using driver revision 4.10.01.0126. WinBench 98 High End was run at 1280 x 1024, small fonts, 75Hz vertical refresh and 16bit per pixel for all boards except Matrox Millennium G200. G200 pixel depth was set to 24-bit per pixel. 3D WinBench 98 was run at 640 x 480 x 16-bit per pixel @ 75Hz for all boards.