
*Overview***NVIDIA Quadro 4 550 XGL (AGP) Graphics Controller****Models**290648-B21

Introduction

The Quadro4 550 XGL graphics controller offers a complete graphics solution for the mainstream workstation professional. The Quadro4 550 XGL provides the fastest entry 3D graphics performance with 64-MB of memory and the flexibility of dual-analog or dual-digital displays for maximum on-screen real estate and productivity.

Performance

Unsurpassed entry performance is achieved through a combination of dynamic memory management, performance optimized OpenGL drivers and unified memory architecture which dynamically allocates memory between graphics subsystems. Quadro4 550 XGL also features NVIDIA's second generation Lightspeed Memory Architecture (LMA) II, which optimally load balances across NVIDIA's patented crossbar memory controller, which results in maximum memory bandwidth utilization.

Memory	Triangles/sec*	MedMCAD-01	ProCDRS-03
64-MB DDR	34 million	43 fps	49 fps

NOTE: * = As measured by SPECglperf for the following conditions: Triangle Strip (Call List, RGB, 5 pixel, 3D, 64 x 64, RGB trilinear modulated texture, smooth, 1 in flight). Tested on 2-GHz Pentium 4, 512-MB RAM, and driver version 27.40.

Key Benefits

- Accelerates OpenGL and DirectX professional applications
 - Supports 64-MB of DDR unified graphics memory
 - Uses memory at peak efficiency by dynamically allocating it among graphics subsystems, increasing performance
 - Features hardware overlay planes and hardware antialiased lines
 - Offers two-sided lighting
 - Boasts full-scene antialiasing
 - Provides second-generation occlusion culling
 - Delivers 2048 x 1536 resolution per display
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Compatibility

The NVIDIA Quadro4 750 XGL Graphics Controller is compatible with the HP Workstation xw4000.

Service and Support

The NVIDIA Quadro4 550 XGL Graphics Controller has a one-year limited warranty or the remainder of the warranty of the Compaq product in which it is installed. Technical support is available seven days a week, 24 hours a day, by phone as well as in online support forms. Certain restrictions and exclusions apply.

Technical Specifications

3D/2D Controller	Integrated Quadro4 Pro 2D/3D 128-bit graphics processor unit (GPU)
VGA Controller	Integrated into the Quadro4 GPU
Bus Type	AGP4x
RAMDAC	350 MHz
Speed & Type	200-MHz 4Mx 32-DDR SDRAM
Memory Amount	64 MB
Controller Clock Speed	270 MHz
Color Planes	32-bit color buffer
Overlay Planes	1 16-bit Video overlay plane, software emulation for OpenGL overlay planes
Stencil Planes	8-bit stencil buffer
Alpha Planes	8-bit alpha buffer
Z-Buffer	24-bit
Total Bits/Pixel	64
Maximum Vertical Refresh Rate	120 Hz
Multi-Display Support	Yes
Operating Systems	Microsoft Windows 2000, and Microsoft Windows XP
Option Kit Contents	Graphics controller card with ATX bracket, SFF bracket loose in box, dual VGA pigtail cable, CD, documentation

Resolution	Maximum Colors Supported	Maximum Refresh Rate
640 x 480	16.7 M	120 Hz
800 x 600	16.7 M	120 Hz
1024 x 768	16.7 M	120 Hz
1152 x 864	16.7 M	120 Hz
1280 x 1024	16.7 M	120 Hz
1600 x 1200	64 K	100 Hz
1600 x 1200	16.7 M	85 Hz
1920 x 1080	64 K	100 Hz
1920 x 1080	16.7 M	75 Hz
1920 x 1200	64 K	85 Hz
1920 x 1200	16.7 M	70 Hz
1920 x 1440	64 K	75 Hz
1920 x 1440	16.7 M	60 Hz
2048 x 1536	64 K	60 Hz

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