

QuickDraw 3D Accelerator Card: Specifications (10/96)

Revised: 10/22/96 Security: Everyone

QuickDraw 3D Accelerator Card: Specifications (10/96)

Article Created: 24 October 1995 Article Reviewed/Updated: 22 October 1996

TOPIC -----

This article provides the specifications of the QuickDraw 3D Accelerator Card for Power Macintosh computers with PCI slots.

DISCUSSION -----

Memory

- 128K SRAM cache
- 512K of high-speed SRAM texture memory, for up to 12 texture maps
- Does not include frame buffer ASICs
- Includes two custom ASICs. Rendering engine is based on state-of-the-art 0.5µ technology

Acceleration capabilities

- Accelerates QuickDraw 3D rendering to speeds as high as 12 times faster
- Renders 10 million trilinearly filtered, mipmapped texture pixels per second
- Renders up to 120,000 triangles per second
- Accelerates Gouraud shading, texture mapping, transparency, and Constructive Solid Geometry (CSG)
- Continually enables trilinear filtering, and mipmapping diffuse and specular lighting producing very high quality texture mapped images
- Uses high-performance SRAM memory to display up to 12 texture maps in each open window
- Outputs an alpha channel, making it fast and easy to transfer images between applications
- Offers hardware-accelerated per-pixel Z sorting for precise rendering of transparent surfaces or CSG, regardless of submission order or interpenetration
- A single card accelerates 3D rendering to all frame buffers in the system. This means it accelerates rendering on multiple monitors.

..TIL18810-QuickDraw_3D_Accelerator_Card-Specifications_10-96_(TA34612).pdf

Environmental requirements _____ • Operating temperature: 50° to 104° F (10° to 40° C) • Humidity: 20% to 95% noncondensing Standards compliance/agency approvals ------• PCI 2.1 compliant, IEEE 802.5 and 802.2 System requirements _____ • An Apple Power Macintosh computer with PCI slots or another PCI-equipped computer running the Mac OS • Macintosh system software version 7.5.2 or later; System Enabler 1.1 or later • At least 16 MB of RAM • A hard disk drive A CD-ROM drive for installing software Software and demos included on CD-ROM _____ • QuickDraw 3D 1.03 Installer and Demo Files - The installer will be localized in the following languages: English, French, German, Spanish, Italian, Japanese, Dutch, and Swedish. • Apple QD3D HW Driver • Apple QD3D HW Plug-In (Driver) • ReadMe file • Demos folder - In the Demos folder are the following third party and Apple-developed demos: - TextureEyes, a live-video mapping 3D application with models and movies - MoviePlayer 2.1 - Havoc, a 3D game demo from Reality Bytes - Models, textures, and product catalog from Specular International - Models from ViewPoint Datalabs Article Change History: 22 Oct 1996 - Added keyword and reformatted. 27 Oct 1995 - Changed distribution status. Copyright 1995-96, Apple Computer, Inc. Tech Info Library Article Number:18810