

PMC904
Datasheet
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256-704-4666
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Abstract

The PMC904 is a 32MB 3D PMC video graphics card. The PMC904 is based around the Trident CyberBlade XP 3D graphics engine. The PMC904's PCI bus can operate at 3.3V or 5.0V and 33MHz or 66MHz. The video outputs consist of standard VGA, S-video, and Composite TV-out.

PMC904 Features

- 32MB of SDRAM Memory
- 128 bit video memory @166MHz
- 256 bit graphics engine
- 1600 x1200 resolution
- Fully Open GL compliant
- Full 2D acceleration
- 32 bit PCI interface
- 33MHz or 66MHz PCI bus speed
- 3.3V or 5.0V PCI Bus
- 3 video outputs
 - A. Standard VGA
 - B. S-video
 - C. Composite Video
- Can be ordered without TV out capability
- Can be conformal coated
- 8 layer PCB for signal integrity
- Temperature range
- Can be private labeled
- 1 year warranty that can be extended
- FCC Class B rating
- PCI 2.2 compliant

Detailed Features of the PMC904

The PMC904 is a PMC video card based around the Trident Cyberblade XP. It has 3 video output options, standard VGA, S-Video, and Composite TV-OUT. The PCI bus interface is 32bit 33MHz/66MHz.

Video Graphic Chipset

The chipset for the PMC 904 is the Trident Cyberblade XP.

CyberBLADE XP is a high-performance, low-power 2D/3D graphics controller for mainstream notebook applications. CyberBLADE XP delivers seven major technical advances in video and graphics capability to mainstream PCs:

- DirectX 7.0 Cubic Mapping for photo-realistic images at very low hardware cost
- 256-bit pixel processing pipeline for highest 3D rendering performance
- Dual 64-bit memory bus architecture for maximum memory bandwidth and 3D graphics performance
- State-of-the-art video de-interlacing for flawless display of standard NTSC/PAL interlaced TV video on standard VGA-based computer monitors.
- High-resolution flat panel support at up to 1600 x 1200 resolution for the sharpest images
- Low-power consumption, which not only extends notebook battery life, but also reduces total system cost through simpler thermal system design and increased system reliability

Other key features include:

- Fully PC2001 compliant and certified under Windows® XP
- Dual-pixel, quad-texture rendering engine operating at up to 166 MHz system clock
- Packaged in a 31x31mm BGA form factor with 2.2 watts maximum power dissipation
- Full support for Microsoft's 3D graphics & video standards such as DirectX 8.0 and DirectX VA
- Full DVD support with hardware Motion Compensation and IDCT (Inverse Discrete Cosine Transform)
- Interface to 64-bit or 128-bit memory bus with support for a wide variety of SDRAM memory configurations such as 2Mx32, 4Mx16, 2Mx16, etc.
- Digital interface to both external LVDS drivers (for TFT panel) and TMDS drivers (for DVI panel)

- Digital interface to standard NTSC/PAL encoder such as Trident's TVExpress for TV out support
- Support HDTV at level 720p with resolution up to 1280 x 720

PCI BUS Interface

The PCI bus interface is 32bits wide. The clock frequency of the PCI bus can be either 33MHz or 66MHz. The PMC904 is PCI 2.2 compliant. The PMC904 can operate at 3.3V or 5.0V.

Video Outputs

The PMC904 PMC video card has 3 video outputs. A standard VGA connector, a 2.5mm jack for S-video output, and a 2.5mm jack for Composite Video TV-OUT. An adapter cable is needed to transition from the 2.5mm jacks to standard S-video or Composite video outputs. SBC Designs can provide the cables or instruct the user on how to make their own cables.

The PMC904 PMC video card can be built without the S-Video or Composite video circuitry. Please contact SBC Designs for more information. 256-704-4666 damon.mcgill@sbcdesigns.com

Conformal Coating

The PMC904 PMC video card can be conformal coated upon a user's request. A per card fee is required.

Private Labeling

The PMC904 video card can be private labeled to meet your needs. Contact SBC Designs for more information. 256-704-4666 damon.mcgill@sbcdesigns.com

PCB Details

The PMC 904 video card PCB is an 8 layer FR4 design. 4 layers are for signals, 4 for power (1.8V, 3.3V, 5.0V, and Gnd). If you need more information on the actual PCB contact SBC Designs. 256-704-4666 damon.mcgill@sbcdesigns.com

Temperature Rating

The PMC904 video card uses standard commercial temperature rated parts. SBC Designs recommends the card be operated between 0 °C and 60 °C. If your temperature range is outside of these limits contact SBC Designs for guidance on how to use the PMC904 in such an environment.

Humidity Rating

The PMC904 video card does not have a specific humidity rating. The card is designed based around standard commercial parts. If you have a need for a specific humidity rating, contact SBC Designs. 256-704-4666 damon.mcgill@sbcdesigns.com
The PMC904 can be conformal coated.

Warranty

The PMC904 comes with a 1 year parts and manufacturing warranty. Product damage due to customer abuse is NOT covered. *SBC Designs reserves the right to inspect a returned product for customer damage.*

FCC Rating

The PMC904 is Class B FCC Rated. The FCC number is:

Legal Information

SBC Designs products are not intended for use in medical, life saving, life sustaining, critical control, or safety systems, or in nuclear facility applications.

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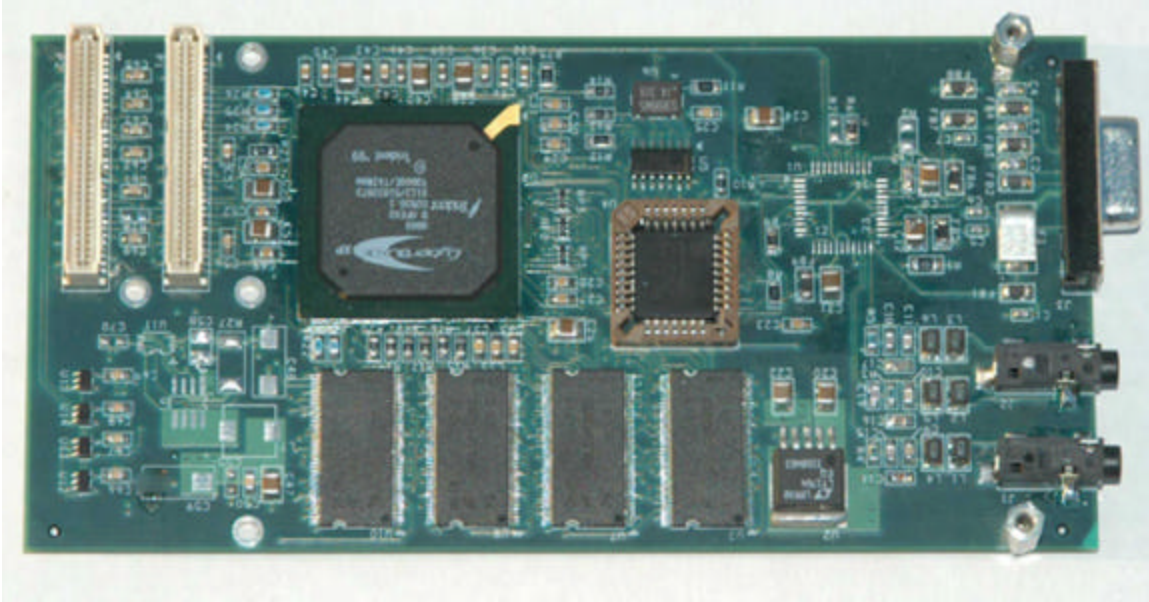


Fig. 1.0 PMC 904 Video Card

Sales Contact Information

Damon McGill, 256-704-4666, damon.mcgill@sbcdesigns.com
Remember we do give discounts on quantities. Call us to discuss your needs.
We are located in the Central time zone.

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