

LCG300

PCI Graphics Card

LCG300 is a PCI graphics card that must be inserted into a PCI slot. LCG300 uses the Volari™ Z9s GPU which integrates a PCI 2.2 controller and a 64-bit 2D graphics engine.

Specifications

GPU (Graphics Processor Unit)

- Volari™ Z9s GPU

2D Graphics Features

- Built-in hardware command queue
- Built-in Direct Draw Accelerator
- Built-in GDI 2000 Accelerator
- Built-in 1T pipelined 64-bit BITBLT graphics engine
 - 256 raster operations
 - Rectangle fill and color expansion
 - Line-drawing with styled pattern
 - Built-in bytes pattern registers
 - Built-in 8x8 mask registers
 - Rectangle clipping

BroadBahn™ Memory Architecture

- Supports DDR-II SDRAM memory
- Supports 32MB memory configurations
- Supports internal 64-bit display memory path
- Supports VGA BIOS auto memory size detection

Resolution, Color and Frame Rate

- Supports 230 MHz pixel clock
- Supports up to 1600x1200, 60Hz True Color

Power Management

- Supports power management for VGA monitor
- Supports direct I/O command to force graphics controller into standby/suspend/off state

Multimedia Application

- DDC1, DDC2B and DDC3.0 specifications
- RAMDAC snoop for multimedia applications

Flat Panel Display Interface

- Graphics mode up to 1600x1200 60Hz
- Built-in power sequencing control outputs
- Digital interface to an external Sil 1162 TMDS transmitter
- Configurable 3.3V Digital Interface for Single 12-bit

High Integration

- Built-in CRT FIFO to support ultra high resolution graphics modes and reduce CPU wait-state
- Built-in programmable 24-bit true-color RAMDAC with 230MHz pixel clock
- Two built-in clock generators
 - Integrates PLL loop filter for CRT and DRAM
- Built-in 14.318MHz reference clock oscillator circuit
- Built-in SPI flash ROM programming interface

PCI Interface

- 32-bit PCI local bus standard revision 2.2 compliant

Video Output Interface

- One Digital DVI-D port
- One DB-15 VGA port

Miscellaneous

- 32K/64K Bytes ROM decoding
- 20MHz SPI ROM interface

Temperature

- 0°C to 60°C

Humidity

- 10% to 90%

