DFI-ACP

ORavision Control OLong Life Cycle



G4M300-P

Intel® 852 microATX Board

PROCESSOR

- Intel® Pentium® 4 (Prescott and Northwood) processor
- FSB: 533MHz system data bus Intel® Celeron® Northwood processor
 - 400MHz system data bus
- Socket 478

CHIPSET

- Intel® 852GME chipset
 - Intel® 852GME Graphics Memory Controller Hub (GMCH)
 - Intel® 82801DB I/O Controller Hub (ICH4)

- Two 184-pin DDR SDRAM DIMM sockets
- 2.5V unbuffered PC2100 (DDR266) or PC2700 (DDR333) DDR SDRAM DIMM with ECC support
- Supports 128Mbit, 256Mbit and 512Mbit technologies providing maximum capacity of 1GB with x16 devices and up to 2GB with high density 512Mbit technology

- Award BIOS
- 4Mbit flash memory

ENERGY EFFICIENT DESIGN

- Supports ACPI specification and OS Directed Power Management
- Supports ACPI STR (Suspend to RAM) function
- Wake-On-Events include:
 - Wake-On-PS/2 Keyboard/Mouse
 - Wake-On-USB
 - Wake-On-LAN
 - RTC timer to power-on the system
- System power management supported
- CPU stopped clock control Hardware supports SMI green mode
- Microsoft*/Intel* APM 1.2 compliant Soft Power supported ACPI v1.0a specification
- AC power failure recovery

DAMAGE FREE INTELLIGENCE

- Monitors CPU/system temperature and overheat alarm Monitors $5VSB(V)/VBAT(V)/1.5V/3.3V/5V/\pm12V/CPU(V)$ voltages and failure alarm
- Monitors CPU/chassis/2nd fan speed and failure alarm
- Read back capability that displays temperature, voltage and fan speed
- Watchdog timer function

ONBOARD GRAPHICS FEATURES

- Up to 64MB of dynamic video memory allocation
- Display core frequency at 133/200/250/266MHz
- Render core frequency at 100/133/166/200/250/266MHz
- 2D graphics engine
 - Optimized 128-bit BLT engine
 - 32-bit Alpha Blended cursor
- 3D graphics engine
 - 3D setup and render engine
 - Supports DirectX and OpenGL
 - 266-MegaTexel/s peak performance
 - 16- and 24-bit Z-buffering; 16- and 24-bit W-buffering
 - Double and triple render buffer

LFP (Local Flat Panel) LVDS INTERFACE

- Single- or dual-channel LVDS panel support up to UXGA panel resolution with frequency range from 25MHz to 112MHz (single/dual channel)
- Integrated PWM interface for LCD backlight inverter control
- Analog display
 - 350MHz integrated 24-bit RAMDAC
 - Maximum 3D resolution up to 1600x1200 at 85Hz

ONBOARD AUDIO FEATURES

- Realtek ALC202A
- 18-bit stereo full-duplex codec with independent variable sampling rate
- S/PDIF-out interface
- 2-channel audio output

ONBOARD LAN FEATURES

- Intel 82562EM fast ethernet controller
- Basic 10/100 Client Connection
- IEEE 802.3, 10BASE-T/100BASE-TX compliant physical layer interface
- IEEE 802.3u Auto-Negotiation
- 48-pin SSOP, 3.3V device

PCI IDE INTERFACE

- Supports ATA/33, ATA/66 and ATA/100 hard drives
- PIO Mode 4 Enhanced IDE (data transfer rate up to 14MB/sec.)

REAR PANEL I/O PORTS

- mini-DIN-6 PS/2 mouse port mini-DIN-6 PS/2 keyboard port
- DB-25 parallel port
- DB-9 serial port

- 1 DB-9 Seliai port 1 DB-15 VGA port 1 RJ45 LAN port 2 USB 2.0/1.1 ports
- game/MIDI port
- 3 audio jacks: line-out, line-in and mic-in

I/O CONNECTORS

- 2 connectors for 4 additional external USB 2.0/1.1 ports
- 3 connectors for 3 additional external COM ports 1 connector for LVDS LCD panel
- LCD/Inverter power connector
- LCD brightness control connector
- front audio connector for line-out and mic-in jacks
 - CD-in internal audio connector
- S/PDIF-out connector
- connector for IrDA interface
- 40-pin IDE connectors for 3.5" HDD

- 40-pin ATX power connector 20-pin ATX power connector 4-pin ATX 12V power connector Wake-On-LAN connector
- front panel connector
- 3 fan connectors

EXPANSION SLOTS

3 PCI slots

PCB

- 4 layers, microATX form factor
- 24.4cm (9.6") x 24.4cm (9.6")

REAR PANEL I/O PORTS

