DFI-ACP

ORavision Control OLong Lifa Cycla



G4V100-P

Intel® 845GV Socket 478 Mini Board

PROCESSOR

Intel® Pentium® 4 Processor with Hyper-Threading Intel® Pennum
Technology
- 533MHz system data bus
Intel® Pentium® 4 Northwood processor
- 533MHz/400MHz system data bus
Intel® Celeron® Northwood processor
- 400MHz system data bus

CHIPSET

Intel® 845GV chipset
- Intel® 845GV Graphics Memory Controller Hub (GMCH)
- Intel® 82801DB I/O Controller Hub (ICH4)

Two 184-pin DDR SDRAM DIMM sockets 2.5V unbuffered PC1600 (DDR200), PC2100 (DDR266) or PC2700 (DDR333) DDR SDRAM DIMM Supports maximum of 2GB system memory using 64Mbit, 128Mbit, 256Mbit or 512Mbit technology - Double-sided x16 DDR SDRAM DIMM is not supported

- Award BIOS, Windows® 98SE/2000/ME/XP Plug and Play compatible
- Supports SCSI sequential boot-up Supports DMI 2.0 function
- 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 Keyboard/Mouse

- 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/±12V/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

- Graphics memory Shares 512K/1MB/8MB of the system memory in DOS mode
 - Uses Dynamic Video Memory Technology (DVMT) in Windows mode
- Graphics controller

 - Core frequency of 200MHz 350MHz integrated 24-bit RAMDAC Analog display up to 2048x1536 @ 60Hz refresh 3D setup and render engine Discrete, Triangles, Strips and fans
 - Per pixel perspective corrected texture mapping
 Software DVD at 30fps, full screen
 2D graphics features
 Optimized 256-bit BLT engine
 32-bit alpha blended cursor
- - Programmable 3-color transparent cursor
- 3D graphics features
 200 megapixels/sec fill rate
 - Maximum 3D resolution: 1600x1200x32 @ 85Hz

 - Flat and Gouraud shading
 16- and 24-bit Z-buffering and 16- and 24-bit W-buffering
 Vertex and programmable pixel fogging and
 atmospheric effects
 Double and triple render buffer

LVDS TRANSMITTER

- Chrontel CH7017
- Supports scale up to 1600x1200 pixels 18-bit and 24-bit outputs

- 2D dither engine
 Support for second CRT DAC bypass mode
 Dual LVDS supporting pixel rates up to 330Mpixels/sec when both 12-bit input ports are ganged together

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

- Uses Intel 82562EM fast ethernet controller IEEE 802.3, 10BASE-T/100BASE-TX compliant physical layer interface
- IEEE 802.3u Auto-Negotiation
 Digital Adaptive Equalization control
- Link status interrupt capability 10BASE-T auto-polarity correction Alert on LAN functionality
- LAN Connect I/F
- 1:1 transmit transformer ratio support Automatic detection of "unplugged mode"

- 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

- 2 USB 2.0/1.1 ports and 1 RJ45 LAN port
- DB-9 serial ports and 1 DB-15 VGA port
- 1 DB-25 parallel port
- 1 PS/2 mouse port and 1PS/2 keyboard port 3 audio jacks: line-out, line-in and mic-in

- 2 connectors for 4 additional external USB 2.0/1.1 ports 1 connector for COM 3 (RS232 or LVDS) 1 connector for COM 4 (RS232 or RS485)

- 44-pin connector for LVDS LCD panel LCD/Inverter power connector
- LCD brightness control connector
- front audio connector and 1 IrDA connector CD-in connector and 1 S/PDIF-out connector 40-pin IDE 1 connector for 3.5" HDD 44-pin IDE 2 connector for 2.5" HDD floppy connector (FPC connector type) ATX power supply connectors Wake-On-LAN connector

- chassis open connector
- 3 fan connectors

EXPANSION SLOTS

1 PCI slot for PCI expansion card or customized riser card for 1, 2 or 3 PCI slots expansion (for low profile PCI card only)

• PCI 2.2 and AC '97 compliant

- 6 layers, mini board (Mini-ITX compatible)
- 17cm (6.7") x 17cm (6.7")

