DFI-ACP

ORavision Control OLong Lifa Cycla



G5M100-N

Intel® 855GME Mini Board

PROCESSOR

- Intel® Pentium® M / Celeron® M processor (478-pin)

 - 400MHz system bus Supports 64-bit host data bus and 32-bit addressing
- Processor socket: mPGA479M
- The following Intel Celeron® M 65nm processors are NOT supported: 410, 420, 423, 430, 440 and 450.

- Intel® 855GME chipset
 Intel® 855GME Graphics Memory Controller Hub (GMCH)
 - Intel® 82801DB I/O Controller Hub (ICH4)

SYSTEM MEMORY

- Two 184-pin DDR SDRAM DIMM sockets 2.5V unbuffered PC1600 (DDR200), 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 Keyboard

 - Wake-On-LAN
 - Wake-On-Ring

- 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)/±5V/±12V/CPU(V) voltages and
- 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 133/200/250MHz Render core frequency at 100/133/166/200/250MHz Intel® Dual-Frequency Graphics Technology 2D graphics engine

 Optimized 128-bit BLT engine

 32-bit Alpha Blended cursor

 8-bit, 16-bit and 32-bit color

- 8-bit, 16-bit and 32-bit color
 3D graphics engine
 Enhanced Hardware Binning Instruction Set
 Bi-Cubic Filtering
 Linear Gamma Blending for Video Mixer Rendering (VMR)
 Video Mixer Rendering (VMR)
 3D setup and render engine
 DirectX and OpenGL pixelization rules
 266-MegaTexel/s peak performance
 16- and 24-bit Z-buffering; 16- and 24-bit W-buffering
 Optimal 3D resolution
 Double and triple render buffer

- Double and triple render buffer Graphics Power Management

- Dynamic Frequency Switching Memory Self-Refresh During C3 Intel® Display Power Saving Technology

DISPLAY

- Dedicated LFP (Local Flat Panel) interface Supports data format up to 24-bpp

- Supports data of the 24-bpp
 Analog display
 350MHz integrated 24-bit RAMDAC
 Pixel resolution up to 1600x1200 at 85Hz and up to 2048x1536 at 75Hz

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

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

- layer Interface
 IEEE 802.3u Auto-Negotiation
 48-pin SSOP, 3.3V device
 Intel 82551QM fast ethernet controller
 Integrated IEEE 802.3, 10BASE-T and 100BASE-TX compatible PHY
 Glueless 32-bit PCI master interface
 Glueless CardBus master interface

 - 128 Kbyte Flash interface
 Thin BGA 15 mm² package

- Supports up to UltraDMA 100Mbps hard drives PIO Mode 4 Enhanced IDE (data transfer rate up to 14MB/sec.)

REAR PANEL I/O PORTS

- 4 USB 2.0/1.1 ports and 2 RJ45 LAN ports 3 DB-9 serial ports and 1 DB-15 VGA port 1PS/2 mouse port and 1 PS/2 keyboard port
- Line-out, line-in and mic-in

I/O CONNECTORS

- connector for 2 additional external USB 2.0/1.1 ports connector for LCD brightness control connector for LVDS LCD panel

- connector for LVDs LCD panel
 connector for LCD/inverter power
 front audio connector for line-out and mic-in jacks
 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 (2.0 pitch)
 floppy connector (FPC type)
 parallel connector and 1 IDA connector
 ATY power supply connector

- 1 ATX power supply connector
 1 Wake-On-LAN connector
 1 Wake-On-Ring connector
 1 chassis open connector
 1 front panel 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)
- 1 mini PCI socket (124-pin)

COMPATIBILITY

• PCI 2.2 and AC '97 compliant

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

REAR PANEL I/O PORTS

