

G5M100-N Intel® 855GME Socket 479 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

CHIPSET

- Intel® 855GME chipset
 - Intel® 855GME Graphics Memory Controller Hub (GMCH)
 - Întel® 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

BIOS

- 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 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 133/200/250MHz 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
- 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 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
- 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 High quality differential CD input
- True stereo line level outputs S/PDIF-out interface

- 2-channel audio output

 Speaker-out jack supports 2W amplifier providing better audio quality to the headphone or speakers

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
 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

IDE INTERFACE

- 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 2 RJ45 LAN ports
- 3 DB-9 serial ports

- 3 DB-7 Seriai poris
 1 DB-15 VGA port
 1 mini-DIN-6 PS/2 mouse port
 1 mini-DIN-6 PS/2 keyboard port
 3 audio jacks: speaker-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 LCD power
- front audio connector for speaker-out and mic-in jacks CD-in internal audio connector
- connector for IrDA interface
- 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)
- ATX power supply connector
- Wake-On-LAN 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 PĆĺ 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")

