G5M300-P

Intel® 855GME Socket 479 microATX Board

PROCESSOR

- Intel® Pentium® M / Celeron® M processor
 - 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
 - Intel® 6300ESB I/O Controller Hub

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
- 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

 - 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)/3.3V/1.5V/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 250MHz
 Render core frequency at 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
- Oplithid 3D Tesololion
 Double and triple render buffer
 Graphics Power Management
 Dynamic Frequency Switching
 Memory Self-Refresh During C3

- Intel® Display Power Saving Technology

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

ONBOARD LAN FEATURES

- RTL8110S Gigabit ethernet controller Supports 10Mbps, 100Mbps and 1Gbps data transmis-
- IEEE 802.3 (10/100Mbps) and IEEE 802.3ab (1Gbps) compliant

SERIAL ATA INTERFACE

Supports two SATA (Serial ATA) interfaces which are compliant with SATA 1.0 specification (1.5Gbps interface)

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

IEEE 1394 INTERFACE

- VIA VT6307
- Supports two 100/200/400 Mb/sec ports

ACCELERATED GRAPHICS PORT (A.G.P.)

- Supports 1.5V AGP 4x data transfers and 2x/4x fast write protocol (3.3V AGP card is not supported)
- AGP 2.0 compliant

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 DB-15 VGA port
- IEEE 1394 port
- 1 RJ45 LAN port 4 USB 2.0/1.1 ports
- Mic-in, line-in and speaker-out

I/O CONNECTORS

- 3 connectors for 3 external serial ports 1 connector for 1 external IEEE 1394 port
- LCD brightness control connector LVDS LCD panel connector
 - LCD power connector
 - front audio connector for speaker-out and mic-in jacks
- CD-in internal audio connector S/PDIF-out connector connector for IrDA interface

- Serial ATA connectors 40-pin IDE connectors
- floppy connector
- ATX power supply connector
- front panel connector

3 fan connectors

- **EXPANSION SLOTS**
- 1 AGP 4x slot 1 PCI-X slot 2 PCI slots
- PCI 2.2, Intel AGP 2.0, PCI-X 2.2 and AC '97 compliant

- 4 layers, microATX form factor
- 24.4cm (9.61") x 23cm (9.06")

