

G5G100-P rev. AM0 Intel® 915GME Mini-ITX Board

PROCESSOR

- Intel® Pentium® M Dothan processor
 - 533MHz/400MHz system data bus
- Intel® Celeron® M processor
 - 400MHz system data bus
- Processor socket: mPGA479M
- ※ The following Intel Celeron® M 65nm processors are NOT supported: 410, 420, 423, 430, 440 and 450.

CHIPSET

- Intel® 915GME chipset
 - Intel® 915GM Graphics Memory Controller Hub (GMCH)
 - Intel® 82801FBM I/O Controller Hub (ICH6M)

SYSTEM MEMORY

- Two 184-pin DDR SDRAM DIMM sockets
- Supports single channel (64-bit wide) memory interface
- Unbuffered PC2700 (DDR333) DDR SDRAM DIMM
- Supports maximum of 2GB system memory using 256Mbit, 512Mbit or 1Gbit technology for x8 and x16 devices, non-ECC memory

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 KB/Mouse / Wake-On-USB KB/Mouse
 - Wake-On-LAN and Wake-On-Ring
 - RTC timer to power-on the system
- System power management supported
- CPU stopped clock control
- 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 CPU(V)/1.5V/3.3V/5V/12V/-12V/VBAT(V)/5VSB(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

- Integrated display interface
 - Analog CRT DAC interface support
 - Supports max DAC frequency up to 400MHz
 - 24-bit RAMDAC support
 - Up to 2048x1536 mode support
 - Digital LVDS interface support
 - Integrated dual channel LVDS interface support
 - Supports 25 to 112MHz single/dual channel LVDS interface
 - Single channel LVDS interface support: 1 x 18 bpp
 - Dual channel LVDS interface support: 2 x 18 bpp
- Internal graphics features
 - DVMT 3.0 support
 - 1MB or 8MB of pre-allocated memory supported
 - Intel® Dual-Frequency Graphics Technology
 - Intel® Smart 2D Display Technology
 - Dual Independent display pipes
 - 32-bit hardware cursor supported
 - 2D graphics engine
 - Optimized 256-bit BLT engine
 - 32-bit Alpha blended cursor

- High quality 3D setup and render engine
 - Triangle lists, strips and fans
 - Supports D3D and OGL pixelization rules
 - Shadow maps
 - Zone rendering 2.0 support
- High quality texture engine
 - 533 MegaTexel/sec performance - 266 Mpixel/sec fill rate up to 2 bilinear textures
 - Per-pixel perspective corrected texture mapping
- 3D graphics rendering enhancements
 - 16- and 24-bit Z buffering
 - Maximum 3D resolution supported: 1600x1200x32

ONBOARD AUDIO FEATURES

- Realtek ALC655
- 16-bit stereo full-duplex codec with independent variable sampling rate
- S/PDIF-in/out interface
- 5.1-channel audio output

ONBOARD LAN FEATURES

- RTL8110SB Gigabit ethernet controller
- Supports 10Mbps, 100Mbps and 1Gbps data transmission
- IEEE 802.3 (10/100Mbps) and IEEE 802.3ab (1Gbps) compliant

SERIAL ATA INTERFACE

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

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

- 1 mini-DIN-6 PS/2 mouse port
- 1 mini-DIN-6 PS/2 keyboard port
- 3 DB-9 serial ports and 1 DB-15 VGA port
- 1 RJ45 LAN port and 4 USB 2.0/1.1 ports
- Mic-in, line-in and line-out

I/O CONNECTORS

- 2 connectors for 4 additional external USB 2.0/1.1 ports
- 1 connector for 1 external serial port
- 1 LCD brightness control connector
- 1 LVDS LCD panel connector
- 1 LCD/inverter power connector
- 1 LCD AUX power connector
- 1 DIO connector
- 1 front audio connector for line-out and mic-in jacks
- 1 CD-in connector and 1 S/PDIF-in/out connector
- 2 Serial ATA connectors and 1 IrDA connector
- 1 40-pin IDE connector and 1 floppy connector (FPC type)
- 1 20-pin ATX power connector
- 1 front panel connector
- 1 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)

COMPATIBILITY

- PCI 2.2 and AC '97 compliant

PCB

- 6 layers, Mini-ITX form factor
- 17cm (6.7") x 17cm (6.7")

REAR PANEL I/O PORTS

