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Preliminary

Revision Control Long Life Cycle

G5G101-B-G

Intel® 915GM Mini-ITX System Board

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

SYSTEM MEMORY
- Two 200-pin SODIMM sockets
- Supports dual channel (128-bit wide) memory interface
- Supports DDR2 400 and DDR2 533 DIMMs
- 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 Keyboard/Mouse
  - Wake-On-USB Keyboard/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/VBAT(V)/5VSB(V) voltages and failure alarm
- Monitors CPU/system 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
    - Up to 2048x1536 mode support
  - Analog TV-out interface support
    - Supports NTSC/PAL format
    - Up to 1024x768 resolution
    - Composite video / S-video output interface
  - 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
  - Intel® Dual-Frequency Graphics Technology
  - Intel® Smart 2D Display Technology
  - Dual Independent display pipes

ONBOARD AUDIO FEATURES
- Realtek ALC655
- 18-bit stereo full-duplex codec with independent variable sampling rate
- High quality differential CD input
- True stereo line level outputs
- S/PDIF-in/out interface
- 5.1-channel audio output

ONBOARD LAN FEATURES
- Marvell 88E8053 PCI Express Gigabit 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
- 1 DC 12V jack
- 1 DB-9 serial port
- 1 DB-15 VGA port
- 1 RJ45 LAN port
- 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 internal audio connector
- 1 S/PDIF-in/out connector
- 1 connector for IrDA interface
- 2 Serial ATA connectors
- 1 40-pin IDE connector
- 1 floppy connector (FPC type)
- 1 4-pin HDD power connector
- 1 4-pin ATX 12V power connector
- 1 front panel connector
- 1 chassis open connector
- 2 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)

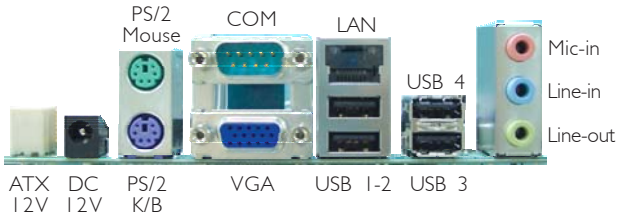
DC INPUT INTERFACE
- Input voltage: 16V - 22V

TEMPERATURE
- 0°C to 60°C

HUMIDITY
- 10% to 90%

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

REAR PANEL I/O PORTS



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