



## G5G330-P-G

Intel® 915GM chipset

Socket mPGA479M-based Intel® microATX board

### PROCESSOR (Socket mPGA479M-based Intel®)

- Intel® Pentium® M Processor
  - 533MHz/400MHz system data bus
- Intel® Celeron® M Processor
  - 400MHz system data bus

### CHIPSET

- Intel® 915GM chipset
  - Intel® 915GM Graphics Memory Controller Hub (GMCH)
  - Intel® 82801FBM I/O Controller Hub (ICH6)

### 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-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/-12V/VBAT(V)/5VSB(V) voltages and failure alarm
- Monitors CPU/system/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

### PCI EXPRESS BASED GRAPHICS INTERFACE

- PCI Express architecture support for external graphics devices
- One 16-lane PCI Express port (x16 PCI Express port) intended for Graphics Attach
- Fully compliant to the PCI Express Base Specification revision 1.0a
- Base PCI Express frequency support of 2.5Gb/s only
- PCI Express power management support

### 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

- 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 drive
- 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

### REAR PANEL I/O PORTS

- 1 mini-DIN-6 PS/2 mouse port
- 1 mini-DIN-6 PS/2 keyboard port
- 1 DB-25 parallel port
- 1 DB-9 serial port
- 1 DB-15 VGA port
- 1 RJ45 LAN port
- 1 IEEE 1394 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
- 3 connectors for 3 external serial ports
- 1 connector for 1 external IEEE 1394 port
- 1 LCD brightness control connector
- 1 LVDS LCD panel connector
- 1 LCD/inverter power connector
- 1 LCD AUX power 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
- 1 20-pin ATX power connector
- 1 front panel connector
- 1 chassis open connector
- 3 fan connectors

### EXPANSION SLOTS

- 1 PCI Express x16 slot
- 1 PCI Express x1 slot
- 2 PCI slots

### COMPATIBILITY

- PCI 2.2 and AC '97 compliant

### PCB

- 6 layers, micro-ATX form factor
- 24.4 cm (9.6") x 24.4 cm (9.6")

### SAFETY

- UL, cUL, FCC, CE