



## G5C630-DR Intel® 945GM ATX Board

### PROCESSOR

- Intel® Core™ Duo/Solo mobile processor
- Intel® Core™ 2 Duo mobile processor
- Intel Core™ processor-based Celeron® M 65nm mobile processor
  - 667MHz/533MHz Front Side Bus
- Processor socket: mPGA478

### CHIPSET

- Intel® chipset
  - Intel® 945GM Express chipset
  - Intel® 82801GR I/O Controller Hub (ICH7R)

### SYSTEM MEMORY

- Two 240-pin DDR2 DIMM sockets
- Supports dual channel (128-bit wide) memory interface
- Supports 400MHz, 533MHz and 667MHz DDR2 SDRAM
- Supports maximum of 4GB system memory using 256Mbit, 512Mbit or 1Gbit technology for x8 and x16 devices

### 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
- 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)/1.05V/1.5V/dimm(V)/12V/VBAT(V)/3.3V/V3.3sb(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 Intel Graphics Media Accelerator 950
  - 250MHz core render clock and 200MHz core display clock
  - Up to 224 MB maximum video memory
  - 1600x1200 at 75 Hz maximum resolution
  - Supports DVI port through Serial Digital Video Out (SDVO) interface
  - Dual screen display through CRT and DVI ports

### ONBOARD AUDIO FEATURES

- Realtek ALC655 AC'97 audio CODEC
- 16-bit stereo full-duplex CODEC with 48KHz sampling rate
- High quality differential CD input
- S/PDIF interface
- 5.1-channel audio output

### ONBOARD LAN FEATURES

- Two Realtek PCI Express Gigabit controllers
- Supports 10Mbps, 100Mbps and 1Gbps data transmission
- IEEE 802.3 (10/100Mbps) and IEEE 802.3ab (1Gbps) compliant

### SERIAL ATA INTERFACE

- Supports four SATA (Serial ATA) interfaces which are compliant with SATA 1.0 specification
- SATA speed up to 3Gb/s
- RAID 0, RAID 1, RAID 0+1 and RAID 5

### IDE INTERFACE

- One IDE connector supports up to two IDE devices
- Supports Ultra ATA 100/66/33

### REAR PANEL I/O PORTS

- 1 mini-DIN-6 PS/2 mouse port
- 1 mini-DIN-6 PS/2 keyboard port
- 2 DB-9 serial ports
- 1 DB-15 VGA port
- 1 DVI-I port
- 2 RJ45 LAN ports
- 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 DIO connector
- 1 parallel 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
- 4 Serial ATA connectors
- 1 40-pin IDE connector
- 1 floppy connector
- 1 24-pin ATX power connector
- 1 4-pin 12V power connector
- 1 chassis open connector
- 1 front panel connector
- 3 fan connectors

### EXPANSION SLOTS

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

### TEMPERATURE

- 0°C to 60°C

### HUMIDITY

- 10% to 90%

### PCB

- 6 layers, ATX form factor
- 30.5cm (12") x 24.4cm (9.6")