

## G5C100-N rev. BM0 Intel® 945GM/945GME Mini-ITX Board

### PROCESSOR

- Intel® Core™ Duo/Solo processor
- Intel® Core™2 Duo processor
  - 667MHz/533MHz system data bus
- Intel® Celeron® M processor
  - 533MHz system data bus
- Processor socket: mPGA478M

### CHIPSET

- Intel® chipset
  - Intel® 945GM/945GME Express chipset
  - Intel® 82801GBM I/O Controller Hub (ICH7M)

### SYSTEM MEMORY

- Two 200-pin SODIMM 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
  - 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)/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 graphics interface
  - Analog CRT
    - Integrated 400MHz RAMDAC
    - Analog monitor supports up to UXGA
  - LVDS interface
    - Panel supports up to UXGA (1600x1200)
    - TFT panel supports up to 1x24 bpp (single channel) / 2x24 bpp (dual channel)
- Internal graphics features
  - DVMT 3.0 support
  - Intel® Dual-Frequency Graphics Technology
  - Intel® Smart 2D Display Technology
  - Dual Independent display pipes
  - Intel Gen 3.5 Integrated Graphics Engine

### ONBOARD AUDIO FEATURES

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

### ONBOARD LAN FEATURES

- Two Marvell 88E8053 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 two Serial ATA interfaces which are compliant with SATA 1.0 specification (1.5Gbps interface)
- Supports AHCI SATA mode

### IDE INTERFACE

- Supports up to two IDE devices
  - Supports Ultra ATA 100/66/33
- Note: We do not recommend using IDE devices and CF card at the same time.

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

### I/O CONNECTORS

- 1 CompactFlash socket
- 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-out connector
- 1 connector for IrDA interface
- 2 Serial ATA connectors
- 1 40-pin IDE connector
- 1 floppy connector (FPC type)
- 1 20-pin ATX 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

### 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

