ORevision Control O Long Life Cycle

G4S601-B-G

Intel[®] 865G chipset Socket 478-based Intel® ATX motherboard

PROCESSOR (Socket 478-based Intel®)

- Intel® Pentium® 4 Processor with Hyper-Threading Technology
- 800MHz/533MHz system data bus
- Intel® Pentium® 4 processor 533MHz400MHz system data bus
- Intel[®] Celeron[®] processor
- 400MHz system data bus

CHIPSET

Applied Computing

- Intel[®] 865G chipset
- Intel® 865G Chipset Graphics Memory Controller Hub (GMCH)
- Intel® 82801EB I/O Controller Hub (ICH5)

SYSTEM Memory

Two 184-pin DDR DIMM Sockets

- · Supports dual channel (128-bit wide) memory interface Each channel supports 2 DIMM sockets
 Supports up to 2GB system memory
- · Synchronous operation with processor system bus
- PC2700/PC3200 (DDR333/DDR400) with 800MHz FSB CPU DDR333 will run at 320MHz memory frequency when used with 800MHz FSB CPU
- PC2100/PC2700 (DDR266/DDR333) with 533MHz FSB CPU
- PC2100 (DDR266) with 400MHz FSB CPU
- Supports non-ECC (x64) DIMM using 128Mb, 256Mb, or 512Mb
- Supports unbuffered DIMMs

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
- Wake-On-Ring (external modem)
- Wake-On-LAN
- 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
- Auto power-on function
- Watchdog timer function

ONBOARD GRAPHICS FEATURES

- Graphics Memory
- Shares 1MB/4MB/8MB/16MB/32MB of the system memory in DOS mode
- Uses Dynamic Video Memory Technology (DVMT) in Windows mode
- Graphics controller
- Core frequency of 266MHz
- 350MHz integrated 24-bit RAMDAC
- Analog display up to 2048x1536 @ 60Hz refresh
- 3D setup and render engine Discrete, Triangles, Strips and fans
- Per pixel perspective corrected texture mapping
 Software DVD at 30fps, full screen
- 2D graphics features
- Optimized 256-bit BLT engine
- 32-bit alpha blended cursor
- Programmable 3-color transparent cursor
- 3D graphics features
- 200 megapixels/sec fill rate
- Maximum 3D resolution: 1600x1200x32 @ 85Hz
- Flat and Gouraud shading
- 16- and 24-bit Z-buffering and 16- and 24-bit W-buffering
- Vertex and programmable pixel fogging and atmospheric effects
 Double and triple render buffer
- Software drivers

MA-SD-137-0906

- Windows® 98SE/2000/ME/XP
- Windows NT® 4.0

ONBOARD AUDIO FEATURES

- Realtek audio CODEC
- · 16-bit stereo full-duplex codec with 48KHz sampling rate
- · High quality differential CD input
- True stereo line level outputs
- S/PDIF-out interface · 6-channel audio output

ONBOARD LAN FEATURES

- Uses Realtek RTL8101L fast ethernet controller
- 32-bit PCI master interface
- · Integrated power management functions
- Full duplex support at both 10 and 100 Mbps
- Supports IEEE 802.3u auto-negotiation
- · Supports wire for management

IDE INTERFACE

- · Supports up to UltraDMA 100Mbps hard drives
- PIO Mode 4 Enhanced IDE (data transfer rate up to 14MB/sec.)

SATA IDE INTERFACE

- · Supports two SATA (Serial ATA) interfaces which are compliant with SATA 1.0 specification (1.5Gbps interface)
- ACCELERATED GRAPHICS PORT (A.G.P)
- Supports AGP 3.0 and AGP 2.0 spec
- · AGP 8x data rate provides a theoretical maximum bandwidth of 2.13GB/sec.
- Supports 1.5V AGP 4X with up to 1066MB/sec. bandwidth for 3D graphics
- applications (3.3V AGP card is NOT supported)
- Supports AGP 3.0 and AGP 2.0 spec.
- · Supports AGP or ADD card

REAR PANEL I/O PORTS

· 3 audio jacks: line-out, line-in and mic-in

• 1 connector for 1 external game/MIDI port

• 1 connector for external line-out and mic-in jacks

· 1 connector for 1 external serial port

· 1 CD-in internal audio connector

1 connector for IrDA interface

• 1 20- pin ATX power connector

EXPANSION SLOTS

COMPATIBILITY

Intel[®] AGP version 3.0

• 4 layers, ATX form factor

• 30.5cm (12") x 22cm (8.66")

• UL, cUL, FCC Class B, CE

• PCI 2.2 and AC '97 compliant

• 1 Wake-On-Lan connector

1 4-pin 12V ATX power connector

1 surround connector

• 1 S/PDIF-out connector

· 2 Serial ATA connectors

• 2 IDE connectors

1 floppy connector

CABLES 1 SATA cable

• 2 IDE cables

1 FDD cable

· 6 PCI slots

PCB

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SAFETY

• 1 AGP 8x/4x slot

· 2 connectors for 4 additional external USB 2.0/1.1 ports

· 3 fan connectors for CPU fan, chassis fan and 2nd fan

- 4 USB 2.0/1.1 ports
- 1 RJ45 LAN port
- 1 DB-9 serial port 1 DB-15 VGA port
- 1 DB-25 parallel port
- 1 mini-DIN-6 PS/2 mouse port • 1 mini-DIN-6 PS/2 keyboard port

I/O CONNECTORS