

ORevision Control OLong Life Cycle



G7S300-B-G

Intel® 865G chipset microATX System Board

- Intel® Processor
 - Intel® Pentium® D
 - Intel® Pentium® 4
 - Intel® Celeron D
 - Hyper-Threading Technology
 - 800MHz/533MHz system data bus
- Processor socket: Socket 775

CHIPSET

- Intel® chipset
 - Intel® 865G 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
- 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
- Supports non-ECC (x64) DIMM using 128Mb, 256Mb or 512Mb
- Supports unbuffered DIMMs

- 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
- Soft Power supported ACPI v1.0a specification
- AC power failure recovery
- 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
 - Per pixel perspective corrected texture mapping Software DVD at 30fps, full screen

 - 2D graphics features
 - Öptimized 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-buffer-
 - Vertex and programmable pixel fogging and atmospheric effects
 - Double and triple render buffer

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-in/out interface 2-channel audio output

ONBOARD LAN FEATURES

- Realtek RTL8110SC Gigabit LAN PCI interface Integrated power management functions Supports 10Mbps, 100Mbps and 1Gbps data transmis-
- IEEE 802.3 (10/100Mbps) and IEEE 802.3ab (1Gbps) compliant

IDE INTERFACE

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

SERIAL ATA INTERFACE

Supports two SATA (Serial ATA) interfaces which are compliant with SATA 1.0 specification (1.5Gbps interface)

REAR PANEL I/O PORTS

- mini-DIN-6 PS/2 mouse port mini-DIN-6 PS/2 keyboard port
- DB-25 parallel port
- 1 DB-9 serial port 1 DB-15 VGA port

- 4 USB 2.0/1.1 ports 1 RJ45 LAN port 3 audio jacks: mic-in, line-in and line-out

I/O CONNECTORS

- 2 connectors for 4 additional external USB 2.0/1.1 ports
 - connector for 1 external serial port Digital I/O connector

- Digital I/O power connector connector for external line-out and mic-in jacks CD-in internal audio connector

- speaker-out connector S/PDIF-in/out connector
- Serial ATA connectors
- 2 IDE connectors
- floppy connector 24-pin ATX power connector 4-pin 12V ATX power connector Wake-On-LAN connector
- 1 chassis open connector
- 3 fan connectors

EXPANSION SLOTS

- 1 AGP slot
- 3 PCI slots

COMPATIBILITY

- PCI 2.2 and AC '97 compliant
- Intel AGP version 3.0

TEMPERATURE

0_oC to 60_oC

HUMIDITY

- 10% to 90%
- 4 layers, microATX form factor 24.4cm (9.6") x 24.4cm (9.6")

SAFETY

K/B

UL, cUL, FCC Class B, CE

REAR PANEL I/O PORTS

