DFI-ACP ORevision Control O Long Life Cycle

G4S306-C Intel[®] 865G microATX System Board

PROCESSOR

- Intel® Pentium® 4 (Prescott and Northwood) processor up to 3.2GHz+
 - Intel Hyper-Threading Technology
 FSB: 533MHz and 800MHz
 Intel® Celeron® processor

- 400MHz system data bus Socket 478

CHIPSET

- Intel® 865G 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
 PC2100 (DDR266) with 400MHz FSB CPU
 PC2100 (DDR266) with 400MHz FSB CPU
 Supports non-ECC (x64) DIMM using 128Mb, 256Mb or 512Mb, unbuffered DIMMs

BIOS

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- 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
- - Wake-On-Ring (external modem) and 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

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
 - 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-buffering
- 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 S/PDIF-in/out interface
- 6-channel audio output

ONBOARD LAN FEATURES

- Uses Realtek RTL8101L fast ethernet controller Integrated IEEE 802.3, 10BASE-T and 100BASE-TX
- compatible PHY 32-bit PCI master interface
- Full duplex support at both 10 and 100 Mbps
- Supports IEEE 802.3u auto-negotiation
- Supports wire for management

PCI IDE INTERFACE

- Supports ATA/33, ATA/66 and ATA/100 hard drives
- PIO Mode 4 Enhanced IDE (data transfer rate up to 14MB/sec.)
- Bus mastering reduces CPU utilization during disk transfer
- Supports ATAPI CD-ROM, LS-120 and ZIP

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. band-width for 3D graphics applications (3.3V AGP card is not supported)

REAR PANEL I/O PORTS

- 4 USB 2.0/1.1 ports 1 RJ45 LAN port
- DB-9 serial port 1
- 1
- DB-15 VGA port DB-25 parallel port mini-DIN-6 PS/2 mouse port mini-DIN-6 PS/2 keyboard port 1
- 3 audio jacks: line-out, line-in and mic-in

I/O CONNECTORS

- connectors for 4 additional external USB 2.0/1.1 ports connector for 1 external serial port 2 1
- connector for 1 external game/MIDI port 1
- connector for external line-out and mic-in jacks
- CD-in internal audio connector
- surround connector 1
- 1
- S/PDIF-in/out connector connector for IrDA interface Serial ATA connectors 2
- 2 IDE connectors
- 1 floppy connector

EXPANSION SLOTS

3 PCI slots

COMPATIBILITY

PS/2 Mouse

PS/2 K/B

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PCR

PCI 2.2 and AC '97 compliant
Intel AGP version 3.0

4 layers, microATX form factor

Parallel

101000-00001

COM

24.4cm (9.6") x 22cm (8.66")

2 ATX power supply connectors1 Wake-On-LAN connector3 connectors for CPU fan, chassis fan and second fan

REAR PANEL I/O PORTS

VGA

I AN

USB I USB 3-4

USB 2

Mic-in

Line-in

Line-out

1 AGP slot that supports 1.5V AGP 4x/8x card