G4S600-B

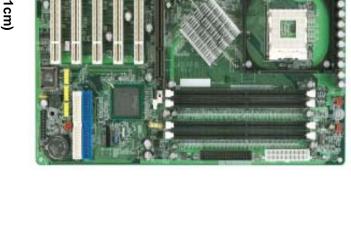
Intel® Pentium® 4 Processor and Intel® Celeron® Processor

ATX board with SATA support, 5 PCI, and on-board Audio, LAN, and Video

12.05" (30.5cm)



- ATX format
- Supports Intel® Pentium® 4 processor or Intel® Celeron® processor
- Hyper Threading Technology
- Intel® 865G chipset 400/533/800 MHz data bus
- **On-board Video**
- On-board LAN
- **On-board Audio**
- **Serial ATA support** •
- Supports up to 8 USB (2.0)
- Stable product life cycle
- Open chassis alarm
- Monitors fan speed, temperature, and power supply voltages



Introduced: Q1/2004

The G4S600-B revision controlled motherboard offers the combination of the Intel® Pentium® 4 or Celeron® processor power (478 pin), with five PCI slots and 1 AGP 1.5V slot. This ATX motherboard has a great combination of on-board audio, on-board video, on-board LAN, and up to 8 USB 2.0 ports.

The G4S600-B features the Intel[®] 865G chipset on an ATX format motherboard. The 800MHz/ 533MHz system data bus provides a seamless user interaction while other features include read back capability that displays voltage, fan speed, temperature monitoring and a S/PDIF connector

offering a digital audio interface.

91° us €

The G4S600-B is produced under strict revision control guidelines to provide an extended product life cycle (2 years or more). This reduces your long-term costs for system testing, certification, and maintenance. ITOX motherboards are used in a variety of applications and in many industries including those listed below.

Markets

- **ATM** machines
- **POS Terminals**
- Kiosk
- Gaming
- Networking
- **Medical Imaging**
- Security
- **Industrial Control**
- **Voice Recognition**
- **Embedded Integration**



Extended Life Motherboard: G4S600-B Intel® 865G Chipset, ATX System Board

- PROCESSOR (Socket 478-based Intel®)Intel® Pentium® 4 Processor with Hyper-Threading Technology
 - 800MHz/533MHz system data bus
 Intel® Pentium® 4 Processor
 - 533MHz/400MHz system data bus
 Intel® Celeron® Processor

- 400MHz system data bus

CHIPSET

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

- SYSTEM MEMORYSupports dual channel (128-bit wide) memory interface
- Supports up to 4GB system memory
 Synchronous operation with processor system bus
 PC2100/PC2700/PC3200 (DDR266/DDR333/DDR400) with

800MHz FSB CPU
DDR333 will run at320MHz 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
- Supports unbuffered DIMMs

- Award BIOS, Windows® 98SE/2000/ME/XP Plug and Play compatible
- Supports SCSI sequential boot-up Flash EPROM for easy BIOS upgrades
- Supports DMI 2.0 function 2Mbit 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-Ring (external modem) and Wake-On-Lan

 RTC timer to power-on the system

 System power management supported

 CPUs topping Clock control

- 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 5VSB(V)/VBAT(V)/1.5V/3.3V/5V/±12V/CPU(V)
- voltages and failure alàrm
- Monitors CPU/chassis/2nd fan speed and failure alarm Read back capability that displays temperature, voltage and fan speed Opened chassis alarm

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
 - and rans

 Per pixel perspective corrected texture mapping

 Software DVD at 30fps, full screen

 graphics features

 Optimized 256-bit BLT engine

 32-bit alpha blended cursor

 Programmable 3-color transparent cursor

 graphics features

- - 200 megapixels/sec fill rate Maximum 3D resolution: 1600x1200x32 @ 85Hz



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- Flat and Gouraud shading 16- and 24-bit Z-buffering and 16- and 24-bit W-bufferina
- Vertex and programmable pixel fogging and atmospheric effects
- Double and triple render buffer
- Software drivers
 - Windows® 98SE/2000/ME/XP
 - Windows NT® 4.0

ONBOARD AUDIO FEATURES

- 18-bit stereo full-duplex codec with independent variable sampling rate
- High quality differential CD input True stereo line level outputs
- S/PDIF-out interface
- 2-channel audio output

ONBOARD LAN FEATURES

- Uses Realtek RTL8101L fast ethernet controller Integrated IEEE 802.3, 10BASE-T and 100BASE-TX compatible
- 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

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 1.5V AGP 8x (2.13GB/sec.) and AGP 4x (1066MB/sec.) for 3D graphics applications (AGP 2x and 3.3V AGP card are not supported)
- Supports AGP 3.0 and AGP 2.0 spec

REAR PANEL I/O PORTS

- 2 USB 2.0/1.1 ports
- 1 RJ45 LAN port

- 1 RJ45 LAIN 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
- 1 game port
- 3 audio jacks: line-out, line-in and mic-in

I/O CONNECTORS

- 3 connectors for 6 additional external USB 2.0/1.1 ports
- 1 connector for 1 external serial port 1 front audio connector for external line-out and mic-in jacks
- 1 CD-in internal audio connector
- 1 S/PDIF-out connector (audio digital interface)
- 1 connector for IrDA interface
- 2 Serial ATA, 2 IDE, and 1 floppy connectors
- 2 ATX power supply connectors
- 1 Wake-On-LAN connector
- 1 opened chassis alarm connector 3 fan connectors for CPU fan, chassis fan and 2nd fan

EXPANSION SLOTS

- 1 AGP slot-1.5V
- 5 PCI slots

COMPATIBILITY

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

PCB

- 4 layers, ATX form factor
- 30.5cm (12.05") x 21cm (8.26")

SAFETY

UL, cUL, FCC Class B, CE

