

G4E606-P

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

ATX Motherboard with 5 PCI Slots, on-board Audio and LAN

Introduced: Q1/2004

Features:

- ATX format
- Supports Intel® Pentium® 4 Processor or Intel® Celeron® Processor
- Intel® 845E chipset – 400/533 MHz data bus
- 5 PCI slots
- AGP slot supports 1.5V AGP
- On-board LAN
- On-board Audio
- Up to 4 Serial Ports
- Supports up to 4 USB (2.0)
- Long and stable product life cycle
- Read back capability that displays temperature, voltage, and fan speed

The G4E606-P revision controlled motherboard offers the combination of the Intel® Pentium® 4 or Intel® Celeron® power processor (478 pin), five PCI slots, and 1 AGP slot with 1.5V support. This ATX motherboard has a great combination of on-board audio, on-board LAN, 4 USB ports, and up to 4 serial ports.

Other features include read back capability that displays voltage, fan speed, and temperature monitoring.

12.05" (30.5cm)

7.48" (19cm)



The G4E606-P motherboard is produced under strict revision control guidelines to provide a long product life cycle (3 yrs 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

- Computer Telephony (CTI)
- Networking
- Medical Imaging
- Security
- Industrial Control
- IT Systems
- Voice Recognition
- Embedded Integration



Revision Controlled Motherboard: G4E606-P

PROCESSOR

- Intel® Pentium® 4 Processor with Hyper-Threading Technology
- Intel® Pentium® 4 Processor (478-pin)
 - 533MHz system data bus
 - 400MHz system data bus
- Intel® Celeron® Processor (478-pin)
 - 400MHz system data bus

CHIPSET

- Intel® 845E chipset
 - Intel® 82845E Memory Controller Hub (MCH)
 - Intel® 82801DB I/O Controller Hub (ICH4)

SYSTEM MEMORY

- Two 184-pin DDR SDRAM DIMM sockets
- 2.5V unbuffered PC1600 (DDR200), PC2100 (DDR266) DDR SDRAM DIMM
- Supports maximum of 2GB system memory using 64Mbit, 128Mbit, 256Mbit or 512Mbit technology
 - Double-sided x16 DDR SDRAM DIMM is NOT supported
- Supports ECC Function

BIOS

- 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

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)
 - 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

DAMAGE FREE INTELLIGENCE

- Monitors CPU/system temperature and overheat alarm
- Monitors 5VSB/VBAT/1.5V/3.3V/±12V/5V/CPU voltages and failure alarm
- Monitors CPU/system/second fan speed and failure alarm
- Read back capability that displays temperature, voltage and fan speed
- Watchdog Timer

ONBOARD AUDIO FEATURES

- Uses Realtek AC'97 compatible codec
- 18-bit stereo full-duplex codec with independent variable sampling rate
- High quality differential CD input
- True stereo line level outputs

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
- 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

PROCESSOR SOCKET

- Socket 478-based Intel®

ACCELERATED GRAPHICS PORT (A.G.P.)

- Supports 1.5V AGP 4x with up to 1066MB/sec. bandwidth for 3D graphics applications

REAR PANEL I/O PORTS

- 2 USB 2.0/1.1 ports
- 1 RJ45 LAN port
- 3 DB-9 serial ports (COM 3 provides 5V/12V, 0.75A via setting a jumper)
- 1 DB-25 parallel port
- 1 mini-DIN-6 PS/2 mouse port
- 1 mini-DIN-6 PS/2 keyboard port
- 3 audio jacks: line-out, line-in and mic-in

CONNECTORS

- 1 connector for 2 additional external USB 2.0/1.1 ports
- 1 connector for 1 external serial port (COM 4 provides 5V/12V, 0.75A via setting a jumper)
- 1 front audio connector for external line-out and mic-in jacks
- 1 CD-in internal audio connector
- 2 IDE connectors
- 1 floppy connector
- 2 ATX power supply connectors
- 1 Wake-On-LAN connector
- 2 connectors for CPU fan and system fan

EXPANSION SLOTS

- 1 AGP slot that supports 1.5V AGP
- 5 PCI slots

COMPATIBILITY

- PCI 2.2 and AC '97 compliant
- Intel® AGP version 2.0

PCB

- 4 layers, ATX form factor
- 30.5cm (12.05") x 19cm (7.48")

SAFETY

- UL, cUL, FCC, CE



8 Elkins Road
East Brunswick, NJ 08816
Tel: 732-390-2815
Toll-Free: 888-200-ITOX
Fax: 732-390-2817
www.itox.com



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