DFI-ACP

○ Revision Control   ○ Long Life Cycle

G4E606-P
Intel® 845E ATX System Board

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
- Socket 478

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) or 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 fan speed and failure alarm
- Read back capability that displays temperature, voltage and fan speed
- Watchdog timer function

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

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")

REAR PANEL I/O PORTS

PS/2 Mouse   Parallel   LAN   COM 3
PS/2 K/B   COM 1   COM 2   USB 1-2   Line-out   Line-in   Mic-in