

## G4E600-D Intel® 845E ATX System Board

### PROCESSOR

- 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
- 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 (through internal or external modem)
  - Wake-On-LAN
  - RTC timer to power-on the system
- System power management supported
- CPU stopped clock control
- Hardware supports SMI green mode
- 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/5V/±12V/CPU voltages and failure alarm
- Monitors CPU/chassis/second fan speed and failure alarm
- Automatic chassis/second fan on/off control
- Read back capability that displays temperature, voltage and fan speed
- Opened chassis alarm

### ONBOARD AUDIO FEATURES

- 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 Intel 82562EX 10/100Mbps PLC
- Integrated IEEE 802.3 10BASE-T and 100BASE-TX compatible PHY
- Supports IEEE 802.3u auto-negotiation
- Automatic detection of "unplugged mode"
- 1:1 transmit transformer ratio support
- 10 BASE-T auto-polarity correction

### 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 with up to 1066MB/sec. bandwidth for 3D graphics applications

### ATX DOUBLE DECK PORTS

- 4 USB 2.0/1.1 ports
- 1 RJ45 LAN port
- 2 DB-9 serial ports
- 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 an external game/MIDI port
- 3 internal audio connectors (AUX-in, CD-in and TAD)
- 1 connector for IrDA interface
- 2 IDE connectors
- 1 floppy connector
- 2 ATX power supply connectors
- 1 Wake-On-LAN connector
- 1 Wake-On-Ring connector
- 1 opened chassis alarm connector
- 3 connectors for CPU, chassis and second fans

### EXPANSION SLOTS

- 1 AGP slot that supports 1.5V AGP
- 5 PCI slots (1 shared with CNR slot)
- 1 CNR slot

### COMPATIBILITY

- PCI 2.2, CNR 1.0 "A" type and AC '97 compliant
- Intel AGP version 2.0

### PCB

- 4 layers, ATX form factor
- 30.5cm (12.05") x 24.4cm (9.6")

### REAR PANEL I/O PORTS

