

GIE65-D Intel® 845 Socket 478 microATX System Board

PROCESSOR

- Intel® Pentium® 4 processor (478-pin)
 - 400MHz system data bus
- Intel® Celeron® processor (478-pin)
 - 400MHz system data bus

CHIPSET

- Intel® 845 chipset
 - Intel® 82845 Memory Controller Hub (MCH)
 - Intel® 82801BA I/O Controller Hub (ICH2)

SYSTEM MEMORY

- Three 168-pin PC SDRAM DIMM sockets
- Supports 3GB system memory
 - Uses 64Mbit, 128Mbit, up to 1.5GB using 256Mbit or up to 3GB using 512Mbit technology, PC-133 PC SDRAM DIMM
- Supports ECC function

BIOS

- Award BIOS, Windows® 98/2000/ME 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
- Wake-On-Events include:
 - Wake-On-Ring (through internal or external modem)
 - Wake-On-LAN
 - Wake-On-Keyboard/Wake-On-Mouse
 - 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/3.3V/5V/±12V/CPU voltages and failure alarm
- Monitors CPU/system/second fan speed and failure alarm
- Automatic system and second fans 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 Realtek RTL8100 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

ACCELERATED GRAPHICS PORT (A.G.P.)

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

ATX DOUBLE DECK PORTS

- 2 USB 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
- 1 game/MIDI port
- 3 audio jacks: line-out, line-in and mic-in

CONNECTORS

- 1 connector for 2 additional external USB ports
- 1 connector for IrDA interface
- 2 IDE connectors
- 1 floppy connector
- 3 ATX power supply connectors
- 1 Wake-On-LAN connector
- 1 Wake-On-Ring connector
- 3 connectors for CPU, system and second fans
- 1 opened chassis alarm connector
- 2 internal audio connectors (CD-in and TAD)

EXPANSION SLOTS

- 1 AGP slot that supports 1.5V AGP 4x
- 2 dedicated PCI slots
- 1 shared PCI/CNR slot

COMPATIBILITY

- Microsoft PC '98 compliant
- PCI 2.2, CNR 1.0 "A" type and AC '97 compliant
- Intel AGP version 2.0

PCB

- 4 layers, microATX form factor
- 24.4cm (9.6") x 24.4cm (9.6")