

## GIC68-D rev. B

### Intel® 815E B-step 3D Multimedia Socket 370 microATX System Board

#### PROCESSOR

- Pentium® III
  - FCPGA2 133MHz FSB (1.13GHz-1.26GHz on 0.13μ)
  - FCPGA 133MHz FSB (533EB-1GHz)
  - FCPGA 100MHz FSB (500E-1.1GHz)
- Celeron™
  - FCPGA2 100MHz FSB (≥1.2GHz on 0.13μ)
  - FCPGA 100MHz FSB (800MHz-1.1GHz)
  - FCPGA 66MHz FSB (566MHz-700MHz)
- VIA CrixIII processor

#### CHIPSET

- Intel® 815E B-step

#### SYSTEM MEMORY

- 32MB to 512MB memory using unbuffered DIMMs
- Two 168-pin DIMM sockets
- Uses x64 PC-133/PC-100 SDRAM DIMM (3.3V) for 133MHz/100MHz system memory bus

#### BIOS

- Award BIOS, Windows® 95/98/2000/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
- Supports ACPI STR (Suspend to RAM) function
- Wake-On-Events include:
  - Wake-On-USB Keyboard
  - 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/VTT(1.5V/1.25V)/3.3V/5V/±12V/CPU voltages and failure alarm
- Monitors CPU/system/second fan speed and failure alarm
- Automatic system/second fan on/off control
- Read back capability that displays temperature, voltage and fan speed
- Supports Intel® processor thermal diode output (real processor temperature)
- Opened chassis alarm
- Supports hardware Y2K function

#### ONBOARD GRAPHICS FEATURES

- Graphics memory
  - Shares 1MB of the system memory
  - Uses Dynamic Video Memory Technology (DVMT)
  - Supports 4MB display cache by installing a 4MB GPA (Graphics Performance Accelerator) card into the AGP slot (4MB GPA card - optional).
- Graphics controller
  - 133MHz super AGP performance when installed with 4MB GPA card (optional)
  - 3D hyper pipelined architecture
  - 2D hardware and motion video acceleration
  - 9-bit precision hardware motion compensation assistance for software MPEG2 decode
  - Software DVD at 30fps
- 2D graphics features
  - Resolutions: up to 1600x1200 in 8-bit color at 85Hz refresh
  - 3 Operand Raster BitBLTs
  - 64x64x3 color transparent cursor
- 3D graphics features
  - Flat and Gouraud shading
  - MIP mapping with tri-linear and anisotropic filtering
  - Full color specular / Z-buffering
  - Fogging atmospheric effect
  - 3D pipe 2D clipping / backface culling

- Software drivers
  - Windows® 95/98/ME
  - Windows NT® 4.0 / Windows® 2000

#### 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 RTL8100B(L) fast ethernet controller
- Supports 10Mbps and 100Mbps transmission
- IEEE 802.3 (10/100Mbps) compliant

#### 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 370
- Equipped with a switching voltage regulator that automatically detects 1.050V to 1.825V

#### ACCELERATED GRAPHICS PORT (A.G.P.)

- Supports AGP 4x up to 1066MB/sec. and AGP 2x up to 533MB/sec. bandwidth for 3D graphics applications

#### REAR PANEL I/O PORTS

- 2 USB ports
- 1 RJ45 LAN 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/MIDI port
- 3 audio jacks: line-out, line-in and mic-in

#### INTERNAL I/O CONNECTORS

- 1 connector for 2 additional external USB ports
- 1 connector for 1 external serial port
- 1 connector for IrDA interface
- 2 IDE connectors
- 1 floppy connector
- 1 ATX power supply connector
- 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 universal AGP slot that supports 4x/2x AGP card and GPA card
- 2 dedicated PCI slots
- 1 shared PCI/CNR slot

#### COMPATIBILITY

- Microsoft PC '98 compliant
- VESA Display Power Management Signaling (DPMS)
- VESA DDC2B for Plug and Play monitors
- 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 21cm (8.26")