

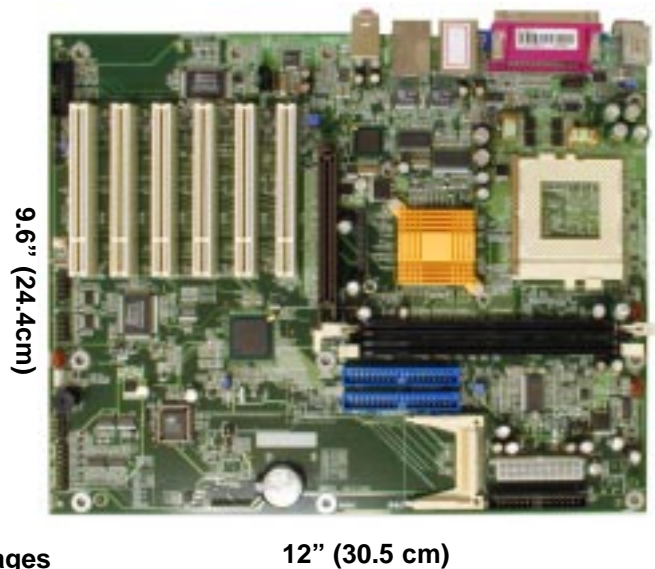
# GIC88-B

Intel® Pentium® III Processor

## GIC88-B 1 LAN

### Features:

- ATX format
- Intel® 815E B step chipset (66/100/133MHz FSB)
- Seven Expansion Slots: 6 PCI and 1 AGP (4x/2x)
- On-board LAN
- On-board Audio & Video
- Compact Flash Socket
- DVO Intel Header (Digital Video Out)
- Supports up to 4 USB
- Long and stable product life cycle (min. 3 yrs)
- Monitors fan speed, temperature, and power supply voltages
- Supports Intel® Pentium® III Processor and Intel® Celeron® Processor



The GIC88-B revision controlled motherboard offers industrial users the processing power of an Intel® Pentium® III or Celeron® processor, on-board audio, video, and up to four USBs. This ATX motherboard offers six PCI slots, on-board LAN, Compact Flash, and digital video out.

The GIC88-B is produced under strict revision control guidelines to provide a long product life cycle (minimum 3 years). This reduces 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.

The GIC88-B features the Intel® 815E B-step chipset which supports the Intel® Pentium® III Processor, resulting in superior CPU performance. The GIC88-B motherboard supports internet applications and 3D imaging. Other features include voltage, fan speed, and temperature monitoring.

### Markets

- Security
- Networking
- Medical Imaging
- Internet (ISPs)
- Video Editing
- Gaming
- Computer Telephony (CTI)



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# GIC88-B REVISION CONTROLLED MOTHERBOARD

## PROCESSOR

- Intel® Pentium® III Processor
  - FCPGA2 133MHz FSB (1.13GHz-1.26GHz on 0.13µ)
  - FCPGA 133MHz FSB (533EB-1GHz)
  - FCPGA 100MHz FSB (500E-750, 850-1.1GHz)
- Intel® Celeron® Processor
  - FCPGA2 100MHz FSB (≥1.2GHz on 0.13µ)
  - FCPGA 100MHz FSB (800MHz-1.1GHz)
  - FCPGA 66MHz FSB (566MHz-700MHz)
- VIA CyrixIII processor

## CHIPSET

- Intel® 815E B-step chipset

## 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/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-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

- Watchdog Timer function
- Monitors CPU/system temperature and overheat alarm
- Monitors CPU Core / CPU VTT / VCC3 / 5V/ ±12V/ VBAT / 5VSB and failure alarm
- Monitors CPU/system/second fan speed and failure alarm
- Automatic system/second fan on/off control
- Read back capability: 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
- Intel® DVO (Digital Video out) interface

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

## 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 82562 fast ethernet controller
- Basic 10/100 Client Connection. Supports 559 level cable and PHY Stats. Support for Server OS included as check item, but no Server function included
- Same Quality Driver suits as 82559
- Supports DMI/SNMP/WMI
- 10/100 Auto Sensing
- IEEE 802.3, 10BASE-T/100BASE-TX compliant physical layer interface
- IEEE 802.3u Auto-Negotiation
- 48-pin SSOP, 3.3V device

## 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-based Intel®
- Equipped with 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

- 4 USB ports (1.1 type)
- 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
- 3 audio jacks: line-out, line-in and mic-in

## I/O CONNECTORS

- 1 CompactFlash™ socket
- 1 connectors for 1 external serial port,
- 1 connector for an external game/MIDI port
- 2 internal audio connectors (CD-in and AUX-in)
- 1 connector for DVO 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
- CPU fan system fan and chassis fan connectors

## EXPANSION SLOTS

- 1 universal AGP slot that supports 4x/2x AGP card and GPA card
- 6 PCI slots

## COMPATIBILITY

- VESA Display Power Management Signaling (DPMS)
- VESA DDC2B for Plug and Play monitors
- PCI 2.2 compliant
- Intel AGP version 2.0
- AC '97 compliant

## CIRCUIT BOARD (PCB)

- 6 layers, ATX form factor
- 24.4cm (9.6") x 30.5cm (12")

## SAFETY

- UL, cUL, FCC Class B, CE