

GIC68-B

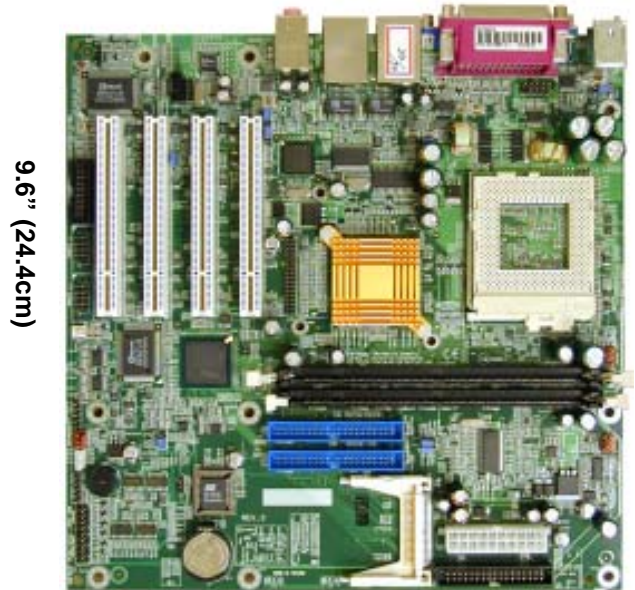
Intel® Pentium® III Processor and Intel® Celeron® Processor

GIC68-B 1 LAN

Introduced: Q1/2003

Features:

- microATX format
- Supports Intel® Pentium® III Processor or Intel® Celeron® Processor
- Intel® 815E B step chipset (66/100/133MHz FSB)
- Four PCI Expansion Slots
- On-board LAN
- On-board Audio & Video
- DVO (Digital Video Out) Interface
- Compact Flash socket
- Supports up to 4 USB
- Supports PXE
- Long and stable product life cycle
- Monitors fan speed, temperature, and PS voltages



9.6" (24.4cm)

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The GIC68-B revision controlled motherboard offers industrial users the processing power of an Intel® Pentium® III processor or Intel® Celeron® processor with on-board audio, on-board video, on-board LAN, 4 PCI slots, up to four USB ports, and DVO (Digital Video Out) on a microATX form factor.

The GIC68 board series features the Intel® 815E B-step chipset which supports the Intel® Pentium® III processor, providing a faster internal clock speed resulting in superior CPU performance. The GIC68 motherboards support internet applications and 3D imaging.

The GIC68-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.

Markets

- Computer Telephony (CTI)
- Security
- Networking
- Industrial Control
- Medical Imaging
- Internet (ISPs)
- Video Editing
- Gaming
- POS Terminals



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GIC68-B Revision Controlled Motherboards

PROCESSOR (Socket 370-based Intel®)

- 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 chipstep

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-Keyboard/Mouse
 - 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 / 5 VSB voltages and failure alarm
- Monitors CPU/system/second fan speed & 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)
- Graphics controller
 - 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 (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

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

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 connectors for 1 external serial port
- 1 CompactFlash™ socket
- 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

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

SAFETY

- UL, cUL, FCC Class B, CE