GCB60-BX/C1

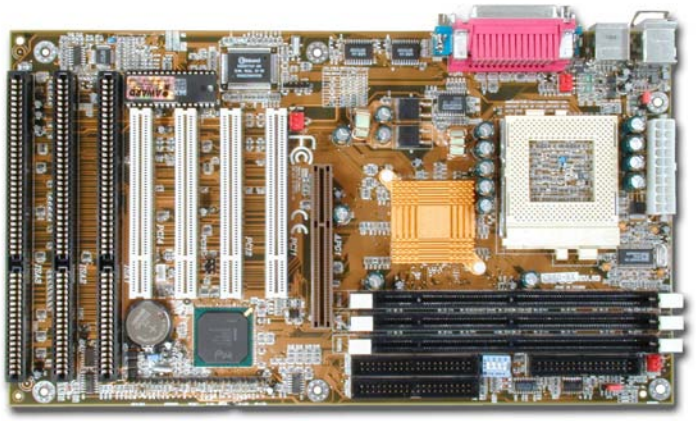
Intel® Pentium® III Processor and Intel® Celeron® Processor

ATX board with 3 PCI slots, 2 ISA, 1 Shared, and 1 AGP

Introduced: Q2/1999

The GCB60-BX/C1 motherboard offers the choice of either the economical Intel® Celeron® processor or the powerful Intel® Pentium® III processor. Each processor enables developers to deliver the high performance needed in today's processing intensive embedded applications. This ATX format motherboard combines the strength of the Intel® 440BX AGP chipset and can support as many as four PCI, or three ISA cards. The front side bus operates at speeds up to 100 MHz to support current and future Intel® Celeron® processors. Other industry features include voltage, fan speed, and temperature monitoring.

6.67" (17.2cm)



12" (30.48cm)

One of the most important qualities of the GCB60-BX/C1 motherboard is that it is porduced under strict revision control guidelines to provide a long and stable product life cycle. This makes it ideal for computer telephony, industrial control, medical instrumentation, security, and other application environments where extensive testing or certification of the system is required. ITOX revision controlled motherboards reduce your long term costs for system testing, certification, and maintenance.

Features:

- Long and stable product life cycle
- Supports Socket 370-based Intel® Celeron® and Intel® Pentium® III FCPGA processors
- 7 expansion slots: 3 PCI, 2 ISA, 1 Shared PCI/ISA, and 1 AGP video
- 100MHz front side bus
- Intel® 440BX AGP chipset
  - Supports up to 768MB SDRAM
  - Supports ECC
- Supports AGP 2X graphics cards
- ATX industry standard form factor
- Monitors fan speed, temperature, and power supply voltages
- High quality, long-life components

iTOX® Applied Computing a DFI company

CB60-BX/C1 Revision Controlled Motherboard

PROCESSOR (Will not support FCPGA2 processors)

- Intel® Pentium® III (FCPGA) Processor to 1 GHz @ 100 MHz FSB
- Intel® Celeron® Processor (FCPGA) to 733 MHz @ 66 MHz FSB
- Intel® Celeron® Processor (PPGA) to 733 MHz @ 66 MHz FSB
- Intel® Celeron® Processor (FCPGA) to 1100 MHz @ 100 MHz FSB

CHIPSET

- Intel® 440BX AGP chipset

SYSTEM MEMORY

*For Compatibility: Order your memory via ITOX or ensure that your vendor's memory is "fully" compatible with Intel® 440BX chipset

- 16 MB to 384 MB memory using unbuffered DIMMs
- 32 MB to 768 MB memory using registered DIMMs
- Three 168-pin DIMM sockets
- Uses x64 or x72 PC SDRAM, 3.3V
  - PC-66 SDRAM DIMM for 66 MHz FSB processors
  - PC-100 SDRAM DIMM for 100 MHz FSB processors
- ECC supported (uses x72 PC SDRAM DIMM)

BIOS

- Award BIOS, Windows® 95/98/2000 Plug and Play compatible
- Flash EPROM for easy BIOS upgrades
- Supports DMI 2.0 function
- Includes NCR 810 SCSI BIOS
- Supports SCSI sequential boot-up
- 2MB flash memory

ENERGY EFFICIENT DESIGN

- Supports ACPI specification and OS Directed Power Management
- Hardware supports SMI green mode
- Wake-On-Events include:
  - RTC timer to power-on the system
  - Modem ring-on
  - Wake-On-LAN
  - Wake-On-Keyboard
  - Wake-On-Mouse
- System power management supported
- CPU stopped clock control
- Microsoft®/Intel® APM 1.2 compliant
- Soft Power supported - ACPI v1.0a specification
- AC power failure recovery

DAMAGE FREE INTELLIGENCE

- Monitors processor/system temperature
- Monitors 1.5V/3.3V/±5V/±12V/VCORE voltages
- Monitors processor/system fan speed
- Automatic processor fan control to save energy, prevent overheating, prolong fan life, and implement silent system
- Read back capability; displays temperature, voltage and fan speed

PCI IDE INTERFACE

- Supports ATA/33 or ATA/66 hard drives
- PIO Mode 3 and Mode 4 Enhanced IDE (data transfer rate up to 16.6MB/sec.)
- Bus mastering reduces CPU utilization during disk transfer
- Supports ATAPI CD-ROM, LS-120, ZIP, and SCSI sequential boot-up

INTEGRATED I/O

- Two NS16C550A-compatible high speed UARTs
- One SPP/ECP/EPP parallel port
- Supports up to 2.88MB floppy drive

PROCESSOR SOCKET

- Socket 370-based Intel®
- Equipped with a switching voltage regulator that automatically detects 1.30V to 2.05V

ACCELERATED GRAPHICS PORT (A.G.P.)

- AGP supports high performance 3D graphics cards
- AGP 2x supports up to 533MB/sec. bandwidth for 3D graphics applications

ATX DOUBLE DECK PORTS

- 2 USB ports
- 2 DB-9 serial ports
- 1 DB-25 parallel port
- 1 mini-DIN-6 PS/2 keyboard port
- 1 mini-DIN-6 PS/2 mouse port

CONNECTORS

- 1 connector for IrDA interface
- 2 IDE connectors
- 1 floppy connector
- 1 20-pin ATX power supply connector
- 1 Wake-On-LAN connector
- 1 SB-LINK connector
- 3 fan connectors for CPU, chassis and AGP fans

EXPANSION SLOTS

- 1 dedicated AGP slot
- 3 dedicated PCI slots
- 2 dedicated 16-bit ISA slots
- 1 shared PCI/ISA slot

CIRCUIT BOARD (PCB)

- 4 layers, ATX form factor
- 30.48cm (12") x 17.2cm (6.67")

SAFETY

- UL, CSA, FCC Class B, CE

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