

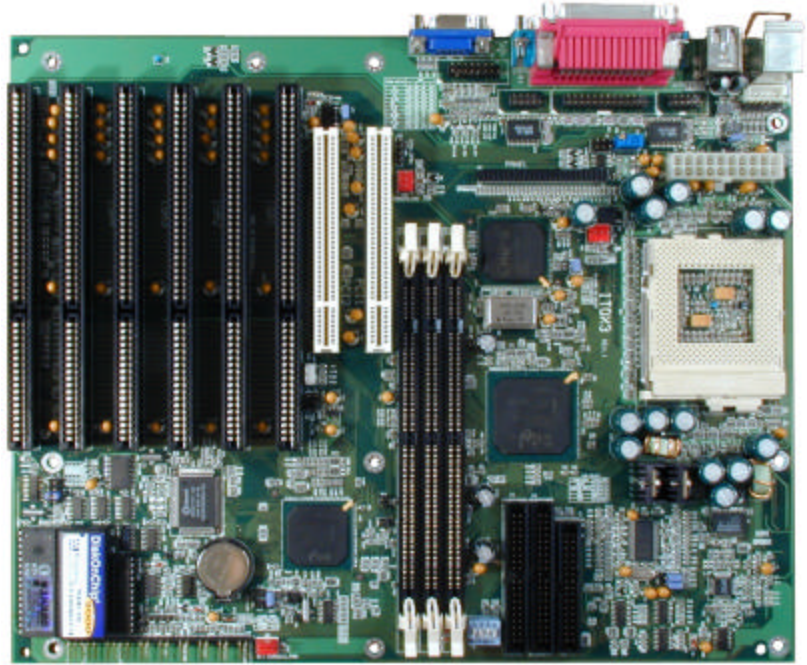
G-ITOX3™

INDUSTRIAL MOTHERBOARD

The G-ITOX3 motherboard offers industrial users the advanced processing power of Intel's latest Pentium III® processors in the FC-PGA package (Socket 370). It can also use the economical Socket 370 Intel Celeron processors. Both Processors are part of Intel's embedded division's long life products list. G-ITOX3 features the Intel 440BX chipset and the Intel 69000 video controller on an industry standard ATX format motherboard. The on-board graphics accelerator eliminates the need to dedicate an expansion slot to the video function. It can accept up to six full-length ISA cards and a total of seven cards.

Bent-over connectors and tall components are placed off to the side to enable easy installation of long cards. The board's

industrial design also features oversize heat sinks, heavy-duty tantalum capacitors, a watchdog timer, and on-board monitoring of the temperature and power supply voltages. In addition, a DiskOnChip™ socket is available for applications without hard drives.



One of the most important features of the G-ITOX3 is that it is produced under strict revision-control guidelines to provide a long and stable product life cycle. It is ideal for computer telephony, industrial control, medical instrumentation 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:

- Supports Intel Pentium III and Celeron processors
- 7 Expansion slots; supports up to 6 full-length ISA cards
- Intel 440BX chipset – 100MHz front side bus
- Intel 69000 video controller on-board
- Revision controlled, industrial motherboard
- Long and stable product life cycle
- ATX industry standard form factor
- Watchdog timer
- Monitors fan speed, temperature and power supply voltages
- ISO 9001 certified design and manufacturing



ITOX3™

PROCESSOR

- Intel® Pentium™ III FC-PGA 100MHz FSB to 1100MHz
- Intel® Celeron™ 66MHz FSB: (FCPGA) to 733MHz, (PPGA) to 533MHz, 100MHz FSB: (FCPGA) to 1100MHz

CHIPSET

- Intel® 440BX AGP chipset
- 66 and 100MHz bus speed

CACHE MEMORY

- Celeron: 128kb on processor
- Pentium III: 256kb on processor

SYSTEM MEMORY

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

BIOS

- Award BIOS, Windows® 95/98 Plug and Play compatible
- Flash EPROM for easy BIOS upgrades (2 Mbit)
- Supports DMI 2.0 function, includes NCR 810 SCSI BIOS

ONBOARD VGA GRAPHICS ACCELERATOR

- Intel CHIPS® 6900 HiQVideo® accelerator
- 2MB SDRAM Video Memory integral to 69000
- Resolution up to 1280 x 1024

ENERGY EFFICIENT DESIGN

- Energy Star qualified; Hardware supports SMI green mode
- Wake-On-Events include, RTC timer to power-on the system, modem ring-on, Wake-On-LAN, and Wake-On-Keyboard/Wake-On-Mouse
- System power management supported
- CPU stopped clock control
- Microsoft®/Intel® APM 1.2 compliant
- Soft Power supported - ACPI v1.0b specification
- AC power failure recovery

PCI IDE INTERFACE

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

DAMAGE FREE INTELLIGENCE

- Monitors processor/system temperature and processor overheat alarm
- Monitors 1.5V/3.3V/±5V/±12V/5Vsb voltages and failure alarm
- Monitors processor/system fan speed and failure alarm
- Automatic processor fan control to save energy, prevent system overheat and prolong fan life
- Read back capability via BIOS that displays temperature, voltage and fan speed

INTEGRATED I/O

- Two NS16C550A-compatible high speed UARTs
- One SPP/ECP/EPP parallel port
- IrDA interface
- Two USB ports
- Supports 360k/720k/1.22M/1.44M/2.88MB, LS-120MB floppy drive

PROCESSOR SOCKET

- Socket 370
- Equipped with a switching voltage regulator that automatically detects required processor voltage (1.30V to 2.05V)

WATCHDOG TIMER

- 8 steps; 0.5/1/2/4/8/16/32/64 seconds

CONNECTORS

- 2 external connectors USB (Universal Serial Bus) ports²
- 1 connector for IrDA interface
- 2 DB-9 serial ports²
- 1 DB-25 parallel port²
- 2 IDE connectors
- 1 floppy connector
- 1 mini-DIN-6 PS/2 keyboard port²
- 1 mini-DIN-6 PS/2 mouse port²
- 1 20-pin ATX power supply connector
- 1 Wake-On-LAN connector
- 1 SB-LINK connector
- 1 Video connector
- 3 fan connectors for CPU, chassis and auxiliary fans
- DiskOnChip™ flash disk socket (up to 72MB)
²Internal connector also provided

EXPANSION SLOTS

- 5 dedicated 16-bit ISA slots
- 1 shared PCI/ISA slots
- 1 dedicated PCI slot

CIRCUIT BOARD (PCB)

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

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