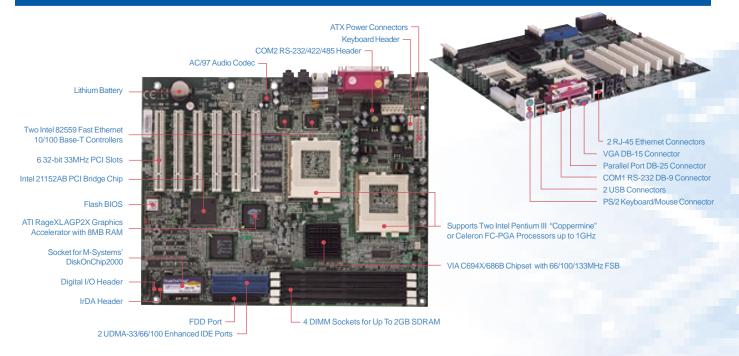
# MB-X63A Dual Socket370 ATX Motherboard w/ Video, 2 Ethernet, Audio & 6 PCI

**Industrial ATX Motherboard** 



## ■ Introduction

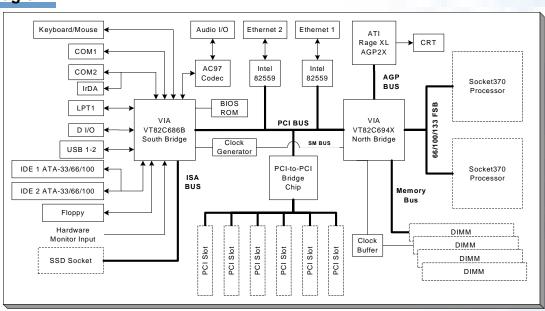
We are always listening to your needs and providing solutions for you. You have asked for an ATX motherboard with long life cycle, version control, fast 1GHz performance, onboard video/audio/dual Ethernet, plus more PCI expansion. The search is finally over.

Thus, we introduce the **MB-X63A**. The ATX motherboard you are looking for: performance of dual Pentium III and up to 2GB SDRAM, AGP video, PCI audio, dual Intel 10/100 Ethernet, and 6 PCI slots. Contact us today.

## ■ Highlights

- · Version controlled industrial ATX Motherboard
- Via 66/100/133MHz FSB Chipset
- Supports two Intel Pentium III processors up to 1GHz
- · Supports up to 2GB SDRAM
- ATI Rage XL AGP 2X graphics accelerator with 8MB memory
- Two Intel 82559 10/100Base-T Ethernet controllers
- AC97 codec audio
- Six 32-bit 33MHz PCI slots
- · DiskOnChip flash memory support
- Multilevel watchdog timer and hardware monitoring

## ■ Block Diagram



# MB-X63A Dual Socket370 ATX Motherboard w/ Video, 2 Ethernet, Audio & 6 PCI

**Industrial ATX Motherboard** 

### Features

#### Processor

Supports two Intel Pentium III / Celeron Socket370 FC-PGA processors up to 1GHz (133MHz x 8).

#### Chipset

VIA VT82C694X / VT82C686B chipset with support for 66/100/133MHz CPU FSB.

#### System BIOS

256KB Award licensed flashable BIOS.

#### System Memory

Four 168-pin DIMM sockets support up to 2GB of PC100 SDRAM (512MBx4) or up to 1.5GB of PC133 SDRAM (512MBx3), ECC capable.

### Solid State Disk / Flash Memory

One 32-pin DIP socket supports M-Systems' DiskOnChip up to 144MB.

#### Video

ATI Rage XL APG 2X graphics accelerator with on-board 8MB video memory. Supports resolutions and color depth: VGA 640x480, SVGA 800x600, XGA 1024x768, SXVGA 1280x1024 up to 16mil colors, and UXGA 1600x1200 x 64k colors.

On-board DB-15 VGA connector for analog video monitor at rear I/O area .

#### Fast Ethernet

Two Intel 82559 PCI Fast Ethernet (10/100Base-T) controllers, support Wake-on-LAN function. Stacked RJ-45 connectors at rear I/O area.

#### Audio

AC97 codec for audio function. 4 phone jacks (Speaker-out, Mic-in, Line-in, Line-out) at rear I/O area.

### IDE Interface

Two PCI Enhanced IDE interface supports up to four (PCI Bus Master, Ultra DMA-33/66/100, Multiword DMA & PIO mode 0-4) IDE devices. Two double density IDE cables included.

#### Floppy Interface

One floppy interface supports up to two floppy devices. One FDD cable included.

#### Serial I/C

Two 16550 serial ports. Serial port 1 (RS-232) on DB-9 connector and serial port 2 (RS-232/422/485 selectable) on header.

#### Parallel I/O

One parallel port supports EPP, ECP and SPP modes. DB-25 connector at rear I/O.

#### · Digital I/O and IR

TTL mode 4 bit digital input / 4-bit digital output and IrDa v1.0 interface on headers.

#### · Keyboard, Mouse and USB

One 6-pin mini-DIN keyboard connector, one 6-pin mini-DIN PS/2 mouse connector and two USB connectors at rear I/O area.

One 5-pin keyboard header for chassis keyboard extension.

#### Expansion Bus

Six Bus Master PCI expansion slots via Intel 21152AB PCI-to-PCI bridge chip.

#### Watchdog Timer

Software triggered 16 level time-out intervals from 0~30 seconds in 2-second intervals.

#### · Health Monitoring

Integrated health monitoring IC with CPU temperature alarm.

#### Real Time Clock

Internal RTC with Lithium battery back-up.

## Specifications

#### Electrical

Power Requirement: +5V, +12V
Power Input: Standard ATX and auxiliary
ATX power connectors
Power Consumption: TBD
w/ Dual Pentium III 1GHz CPUs

w/ Dual Pentium III 1GHz CPUs and 2GB RAM ?A @ +5V, ?A @ +12V (?W) w/ Dual Pentium III 700MHz CPUs and 512MB RAM ?A @ +5V, ?A @ +12V (?W)

#### Mechanical

ATX Motherboard Dimension: 305mm x 244mm (12" x 9.6") Weight: 500g (1.1lb)

#### Environmental

Operating Temperature: 0°C to 60° C
Storage Temperature: -20°C to 70° C
Operating Humidity: 10% to 90% RH,
non-condensing

#### Reliability

MTBF: Designed for >40,000 hours

#### Safety Approvals

CE & FCC Certification Pending

#### Warranty

Two years (Contact us for details)

#### ■ Software

The MB-X63A is compatible with operating systems developed for x86 PC. The board supports Windows 95 / 98, Windows NT / NT Embedded, Windows 2000, Windows XP, and Linux. Drivers for various OSes are included on a CD-ROM with every package.

# Ordering Information

#### MB-X63A

Dual Socket 370 Industrial ATX Motherboard with on-board video, dual Ethernet, audio and 6 PCI slots.