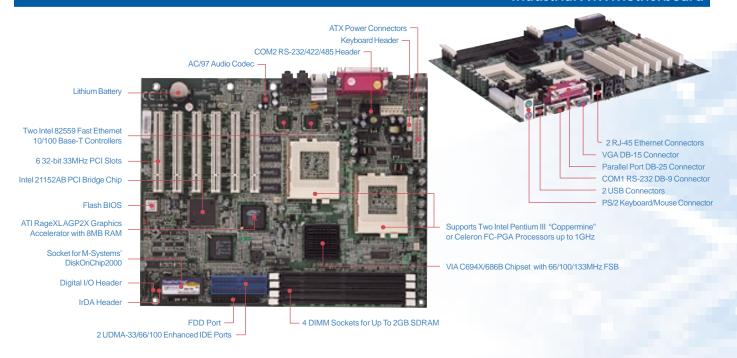
# MB-X63A Dual Socket370 ATX Motherboard w/ Video, 2 Ethernet, Audio & 6 PCI

**Industrial ATX Motherboard** 



## ■ Introduction

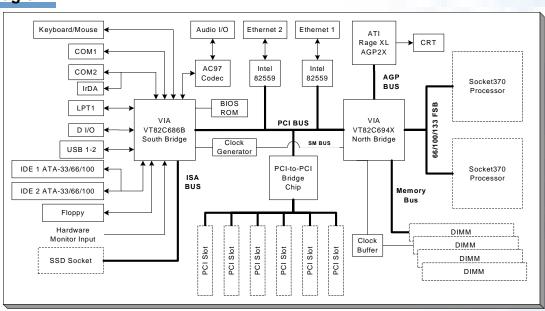
We are always listening to your needs and providing solutions for you. You have asked for an ATX motherboard with long life cycle, version control, fast 1GHz performance, on-board video/audio/dual Ethernet, plus more PCI expansion. The search is finally over.

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/O

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
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.