
Introduction

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The MS-6362 ATX mainboard is a high-performance computer mainboard based on VIA® VT82C694DP chipset. The MS-6362 is designed for the Intel® Pentium® III (FC-PGA) processor for inexpensive business/personal desktop markets.

The Apollo Pro133A (VT82C694DP) is a Socket-370 system logic north bridge with the addition of 133 MHz capability for both the CPU and SDRAM interfaces. Apollo Pro133A may be used to implement both desktop and notebook personal computer systems from 66MHz to 133MHz based on Socket-370. The primary features of the Apollo Pro133A-North Bridge are: Slot-1 or Socket-370 CPU (Front Side Bus) Interface (66 / 100 / 133MHz), DRAM Memory Interface (66 / 100 / 133MHz), AGP Bus Interface (66MHz), PCI Bus Interface (33MHz), Mobile Power Management.

The VT82C686B PSIPC (PCI Super-I/O Integrated Peripheral Controller) is a high integration, high performance, power-efficient, and high compatibility device that supports Intel and non-Intel based processor to PCI bus bridge functionality to make a complete Microsoft PC99-compliant PCI/ISA system.

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Mainboard Specifications

CPU

- Support dual Intel® Pentium III(FC-PGA) processor.
- Supports 233MHz, 266MHz, 300MHz, 333MHz, 350MHz, 400MHz, 450MHz, 500MHz, 533MHz, 600MHz, 633MHz, 667MHz, 700MHz, 733MHz, 800MHz, 866MHz, 933MHz, or 1GHz.

Chipset

- VIA® 694DP chipset. (510 BGA)
 - P-II FSB @ 133MHz
 - AGP 4x and PCI plus Advanced ECC Memory Controller
 - Support PC100/133 SDRAM & VCM technology
- VIA® VT82C686B chipset. (352 BGA)
 - Advanced Power Management Features
 - DirectSound AC97 Audio
 - Dual bus Master IDE Ultra DMA 33/66/100

Clock Generator

- 66.6MHz , 100MHz and 133Mhz up to 200MHz clocks are supported.

MainMemory

- Support eight memory banks using four 168-pin unbuffered DIMM.
- Support a maximum memory size of 2GB.
- Support ECC (1-bit Error Code Correct) function.
- Support 3.3V SDRAM DIMM.
- Pinouts support 8 banks up to 2GB DRAMs (256Mb DRAM technology) at 100MHz.
(PC133 specifications. However, a limit of 3 DIMMs or 6 banks at 133 MHz for 1.5GB max. memory is recommended.)

Slots

- One AGP (Accelerated Graphics Port) PRO slot.
 - AGP specification compliant
 - One CNR (Communication Network Riser) slot.
 - Five 32-bit Master PCI Bus slots.
 - Supports 3.3V/5V PCI bus Interface.
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On-Board IDE

- An IDE controller on the VIA® VT82C686B Chipset provides IDE HDD/CD-ROM with PIO, Bus Master and Ultra DMA 33/66/100 operation modes.
- Can connect up to four IDE devices.

Onboard Ultra 160 SCSI Connector

- Adaptec AIC-7899
 - supports high performance 160Mbytes/sec Dual Channel Ultra SCSI
 - supports Ultra(SE) devices

On-Board Peripherals

- On-Board Peripherals include:
 - 1 floppy port supports 2 FDD with 360K, 720K, 1.2M, 1.44M and 2.88Mbytes.
 - 2 serial ports (COMA + COMB)
 - 1 parallel port supports SPP/EPP/ECP mode
 - 4 USB ports
 - 1 IR connector for HPSIR/ASK

Audio

- Chip integrated

BIOS

- The mainboard BIOS provides “Plug & Play” BIOS which detects the peripheral devices and expansion cards of the board automatically.
- The mainboard provides a Desktop Management Interface(DMI) function which records your mainboard specifications.

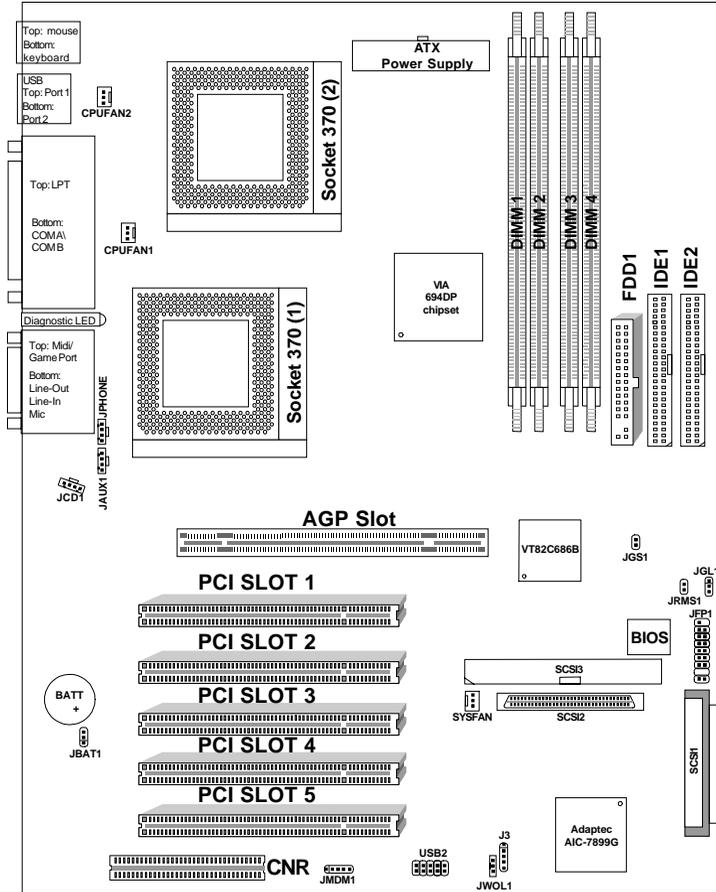
Dimension

- ATX Form Factor 24.9cm x 30.4cm

Mounting

- 9 mounting holes.

Mainboard Layout



MS-6362 ATX Mainboard

Key Features

- PC99 Color Connector
- D-LED™(Diagnostic LEDs)
- ATX Form Factor
- Support Accelerated Graphic Port (AGP) Add-In Card
- Support Dual Intel® Pentium III (FC-PGA) processors at 100MHz and 133MHz System Bus Frequencies
- PC Alert™ III (System Hardware Monitor)
- TCAV (Build-in Trend Micro Anti-Virus Protection on BIOS)
- Support DMI (Desktop Management Interface) through BIOS
- LAN Wake Up Function
- Modem (Internal/External) Ring Wake Up Function
- Support Ultra DMA 100

MSI Special Features

The following MSI special features are designed in-house by MSI R&D which are feature only in MSI mainboards. The MS-6362 mainboard is equipped with PC Alert™ III, TOP Tech.™ III and D-LED™.

TOP Tech.™

The TOP Tech.™ is an extended sensing device that can 100% accurately detect the CPU's temperature.



PC Alert™ III

The PC Alert™ III is a special utility you can find in the CD-ROM. The utility is just like your PC doctor which can detect the following PC hardware status during real time operation:

- * monitor CPU & system temperature
- * monitor fan speed
- * monitor system voltage
- * monitor chassis intrusion



D-LED™

The D-LED™ uses graphic signal display to help you understand your system. There are 4 LEDs embedded in the mainboard which provides up to 16 combination of signals to debug system. The 4 LEDs can debug all problems that fail the system, such as VGA, RAM or other failures. This special feature is very useful for the overclocking users. The users can use this feature to detect if there are any problems or failures while doing the overclocking.

