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The MS-6341 ATX mainboard is a high-performance computer mainboard based on AMD® 761 chipset and VT82C686B. The MS-6341 is designed for the AMD® Duron & Thunderbird processors for inexpensive business/personal desktop markets.

The AMD-761 system controller features the AMD Duron system bus, system memory controller, accelerated graphics port (AGP) controller, and peripheral component interconnect (PCI) bus controller. The AMD-761 system controller is also designed to support 200MHz DDR SDRAM DIMMs.

The VT82C686B integrates all system control functions such as ACPI (Advanced Configuration and Power Interface). The ACPI provides more Energy Saving Features for the OSPM (OS Direct Power Management) function. The VT82C686B chipset also improves the IDE transfer rate by supporting Ultra DMA-33/66/100 IDE that transfers data at the rate 33/66/100MB/sec.

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Mainboard Specification

CPU

- Socket A for AMD® Duron™ & Athlon™ processors
- Support 700/750/800/850/900/950MHz, 1GHz, 1.2GHz

Chipset

- AMD® 761 chipset. (569 BGA)
 - Supports 200MHz High speed, split transaction system bus.
 - AGP 4x and PCI Advanced high performance memory controller
 - Support 200MHz DDR SDRAM technology
- VIA® VT686B chipset. (352 BGA)
 - Enhanced Power Management Features
 - Integrated Super I/O (FDC, LPT, COM 1/2, and IR)
 - Dual bus Master IDE Ultra DMA33/66/100
 - Integrated Hardware Soundblaster
 - Direct Sound AC97 Audio
 - ACPI

Clock Generator

- 100Mhz clocks are supported. (200MHz Internal System Bus)

Main Memory

- Support 4 memory banks using two 184-pin DDR-DIMM
- Support a maximum memory size of 2GB

Slots

- One AGP(Accelerated Graphics Port) Pro slot
 - AGP 4x mode
- One CNR(Communication Network Riser) slot
- Five 32-bit Master PCI Bus slots
- Supports 3.3v/5v PCI bus Interface

On-Board IDE

- An IDE controller on the VIA® VT686B 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

Audio

- Chip Integrated
 - Direct Sound AC97 Audio

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 + COM B)
 - 1 parallel port supports SPP/EPP/ECP mode
 - 4 USB ports (2 Rear Connectors/USB Front Pin Header)
 - 1 IrDA connector for SIR/FIR/ASKIR/HPSIR
 - 1 Audio/Game port

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: 30.5cm x 25.9cm

Mounting

- 9 mounting holes

Quick Components Guide

Component	Function	Reference
DDR-DIMM 1&2	Installing memory modules	See p. 2-4~2-5
Socket A	Installing CPU	See p. 2-2~2-3
CPU/PS/SYS FAN	Connecting to CPU/PS/SYS FAN	See p. 2-17
ATX Power Supply	Installing power supply	See p. 2-6
IDE1 & IDE2	Connecting to IDE hard disk drive	See p.2-12
FDD	Connecting to floppy disk drive	See p.2-11
SCSI 1~ SCSI 3	Connecting to SCSI interface	See p. 2-18
USB2	Connecting to USB interface	See p. 2-11
AGP Pro Slot	Installing AGP card	See p. 2-23
PCI Slot 1~5	Installing expansion boards	See p. 2-23
JFP1	Connecting to case	See p. 2-13
JMDM	Connecting to modem card	See p. 2-15
JWOL1	Connecting to LAN card	See p. 2-15
JGS1	Connecting to power saving switch	See p. 2-16
JIR1	Connecting to IrDA infrared module	See p. 2-16
JBAT1	Clearing CMOS data	See p. 2-19
JKBV1	Setting keyboard wake-up function	See p. 2-20
JP1	Setting audio onboard	See p. 2-20
JP3	Setting CPU core bus ratio	See p. 2-21

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Key Features

- Microsoft® PC99 compliant
- D-LED™ - 4 LEDs embedded in mainboard
- PC Alert™ III system hardware monitor
- CPU: Socket A for AMD® Duron™ & Athlon™ processors, 700/750/800/850/900/950MHz, 1GHz, 1.2GHz
- Form Factor: ATX, 30.5 cm x 25.9cm
- Clock: 100MHz (200MHz Internal System Bus)
- Chip Integrated Audio: Direct Sound Ac97 Audio
- Memory: 2DIMM. Max, up to 2GB DDR SDRAM
- Wake up on LAN Function
- I/O: 2 serial ports, 1 parallel port, 4 USB ports, 1 floppy port, 1 IrDA connector, 1 Audio/Game port
- Slot: 1 AGP Pro slot, 1 CNR slot, 5 PCI slots

MSI Special Features

The MSI special features are designed by MSI R&D which are only available in MSI mainboards. The 6341 mainboard is equipped with PC Alert™ III and D-LED™.

PC Alert™ III

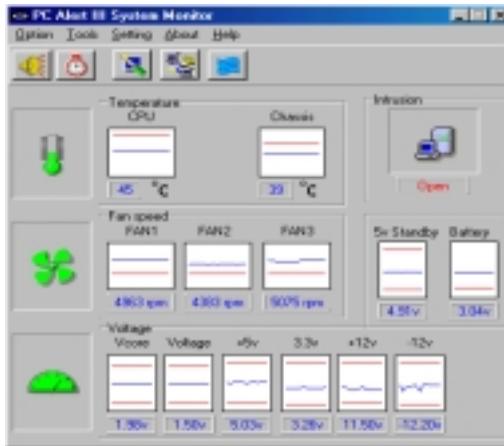
The PC Alert™ III is a utility you can find in the CD-ROM. The utility is just like your PC doctor that can detect the following PC hardware status during real time operation:

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

If one of the items above is abnormal, the program main screen will be immediately shown on the screen, with the abnormal item highlighted in red. This will continue to be shown until user disables warning.



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Features:

- Network Management
 - Monitoring & remote control
- Basic System Utilities
 - Scandisk & Defragment to maintain your HDD
- 3D Graphics Design
 - Enables a more friendly user interface
- Software Utilities
 - SoftCooler Optimized Cooling
 - Doctor Y2K Diagnoses Y2K problems
 - BusRacing function adjusts F.S.B under Windows 95/98
 - MoSpeed Speeds up your modem transmission

D-LED™

The D-LED™ uses graphic signal display to help you understand your system. There are 4 LED 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.



● Red ○ Green

D-LED	Description
1 2 3 4 	System Power On -The D-LED will hang here if the processor is damaged or not installed properly.
	Early Chipset Initialization.
	Memory Detection Test -Testing onboard memory size. The D-LED will hang if the memory module is damaged or not installed properly.
	Decompressing BIOS image to RAM for fast booting.
	Initializing keyboard controller.
	Testing VGA BIOS -This will start writing VGA sign-on message to the screen.
	Processor Initialization - This will show information regarding the processor (like brand name, system bus, etc...)

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D-LED	Description
	Testing RTC (Real Time Clock)
	Initializing Video Interface - This will start detecting CPU clock, checking type of video onboard. Then, detect and initialize the video adapter.
	BIOS Sign on -This will start showing information about logo, processor brand name, etc...
	Testing Base and Extended Memory -Testing base memory from 240K to 640K and extended memory above 1MB using various patterns.
	Assign Resources to all ISA.
	Initializing Hard Drive Controller - This will initialize IDE drive and controller.
	Boot Attempt - This will set low stack and boot via INT 19h.
	Operating System Booting