

# Overview

The new 1stMainboard® AM35 is an Micro ATX sized motherboard supporting the latest generation of AMD®processors at industry leading speeds. By utilizing DDR ( Double Data Rate ) transfer rate the 100/133 MHz system bus effectively reaches Front Side Bus speeds of 200/266 MHz. The board provides users with an ATA133 data transaction for hard drives and allows up to 2 GB memory totally by 2 PC1600/PC2100 DIMM sockets.

The AM35 is based around the high performance V-link VIA ProSavageDDR KM266 core chip with VIA VT8233A as a South Bridge. The AGP(2X/4X) functions supported by KM266 provides you with a photo-realistic 3D experience suitable for the most robust 3D games and software environments. AC97 Codec that embedded in VT8233A, ensures high quality sound effect.

The mainboard also comes equipped with the new NOVUS® range of innovative features that assist in the installation and maintenance. The features include *Easy Key*, which provides instant keyboard access to the BIOS for adjustments to Clock and Default settings and *LogoGenie*, which allows you to create your own customized logo to be displayed during system boot up. The *BIOS Guardian* is an Anti Virus utility that prevents viruses from damaging your system BIOS and rendering your system inoperative.

Expansion is provided by 1 AGP(2X/4X) and 3 PCI slots. In addition, the 1stMainboard is equipped standard I/O connections include 2 serial ports (1 by pinheader), 1 parallel port, 1 VGA port, 1 PS/2 mouse and keyboard connector, 4 USB ports (2 by pinheader), 1 IR port by pinheader, and 1 media connector (Line-In, Line-Out, Mic-In, 1 front audio, 1 game port).

## Package Checklist

If you discover any item below was damaged or lost, please contact your vendor.

- The mainboard
- This user manual
- One FDD cable
- CD software
- One ATA100 cable

### IMPORTANT: AMD CPU HEAT SINK INSTALLATION



*Be ware finish heat sink install. Before you boot system, please check the heat sink is complete contact with die of CPU.*

The poor contact will bring about over heat, it may damage your processor.

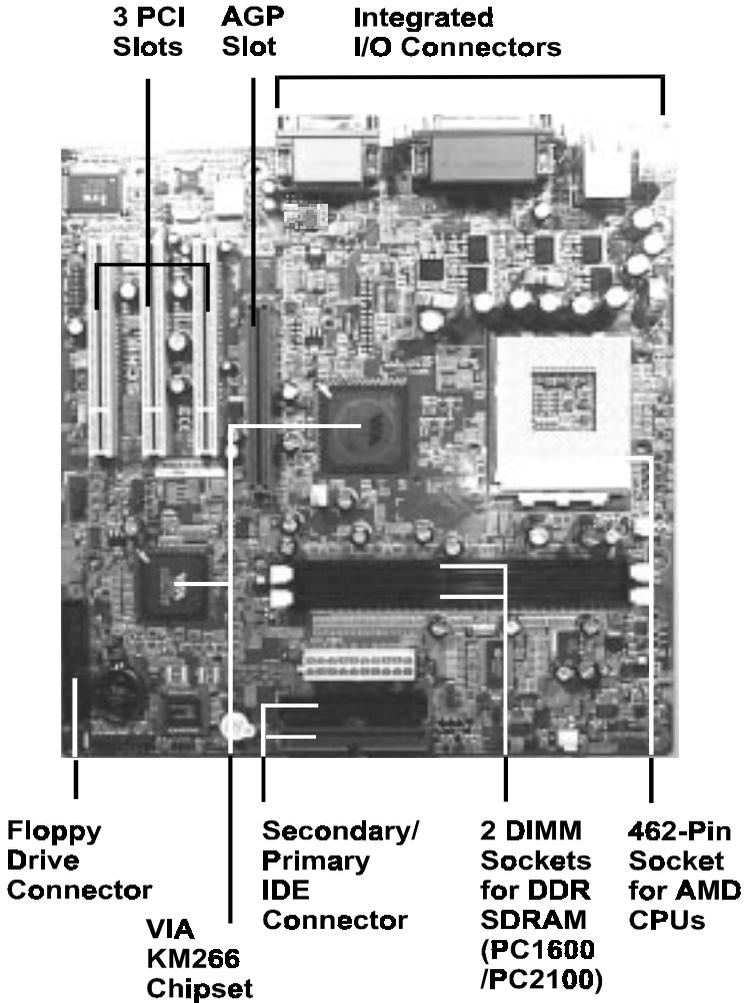
It is strongly recommended that at least a 250-watt ATX power pupply be used for this motherboard. Make sure that your ATX power supply can supply at least 20 amperes on teh +5-Volt lead and 10mA on the +5-Volt standby lead (+5VSB). Your system may become unstable / unreliable and may experience difficulty in powering up if your power supply is inadequate.



**NOTE: CD Pro** that contains patch files, onboard video/audio chip drivers, related online help and other useful information can be found in your mainboard package.

*Please install it right after your Windows operating system installation is done.* Place your CD Pro in the drive, an operating menu will appears in your monitor. Please select *Auto Installation*. It will automatically detect which software tools (patch files, drivers) that the mainboard needs. Press **OK** button to go through the whole installation procedure in a very straight forward and easy way. It also provides you with a custom way to select wanted patch files and software drivers that for onboard chips use. **The top menu of the CD Pro lists all the functions that allowed by this board.**

## The AM35 Mainboard



## Main Features

- Easy Installation

BIOS with support for Plug and Play, auto detection of IDE hard drives, LS-120 drives, IDE ZIP drives, Windows 98SE, Windows ME, Windows NT, Windows 2000, Windows XP, and OS/2.

- Leading Edge Chipset

VIA KM266 is a single-chip North Bridge for AMD CPUs with 200/266 MHz Front Side Bus with AGP and PCI plus advanced memory controller that supports PC1600/PC2100 DDR SDRAM. VIA VT8233A is a Vlink client highly integrated controller that supports PC99-compliant system. The VT8233A also supports ATA133 protocol.

- Versatile Main Memory Support

Accepts up to 2 GB DRAM using three DDR266 DIMMs from 256 MB to 2 GB with support for lightning-fast (PC1600/PC2100) DDR SDRAM .

- AMD Processors Support

Athlon: 700 MHz to 1.4 GHz and up\* at 200 MHz FSB/  
1.0 GHz to 1.4 GHz at 266 MHz FSB;

Athlon XP: 1500+ to 2100+ and up\* at 266 MHz FSB;

Duron: 800 MHz to 1.3 GHz and up\* at 200 MHz FSB

(\*: not tested yet)

- Enhanced PCI Bus Master IDE Controller with UltraDMA/33/66/100/133 Support

Integrated Enhanced PCI Bus Master IDE controller features two dual-channel connectors that up to four Enhanced IDE devices, including CD-ROM and Tape Backup Drives, as well as Hard Disk Drives supporting the new UltraDMA/133 Mode 6 protocol, standard PIO Mode 3, PIO Mode 4, DMA Mode 2, DMA Mode 4, UltraDMA/100 Mode 5 devices are also supported.

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- **AGP and PCI Expansion Slots**

One AGP Bus and three PCI Bus expansion slots provided the room to install a full range of add-on cards.
  
  - **Compact Onboard Audio Subsystem**

Embedded in VIA VT8233A, an integrated high bandwidth Vlink client controller, direct sound AC97 audio subsystem. UltraDMA master mode EIDE controller, USB controller, ACPI enhanced power management, and PC99 compliant.
  
  - **Super Multi Input/Output (I/O) Support**

Integrated Plug and Play multi-I/O chipset features two high-speed UART 16550 compatible serial ports, one EPP/ECP capable parallel port, one VGA port, one IR port, one game port, and one FDD connector.
  
  - **Convenient Rear Panel USB Connection Support**

Two USB ports integrated in the rear I/O panel and two extra USB ports for either front or rear panel connection allow convenient and high-speed Plug and Play connections to the growing number of USB compliant peripheral devices on the market.
  
  - **Onboard Accelerated Graphics Port (AGP)**

The motherboard is installed one 32-bit **1.5V** AGP(2X/4X) bus with a dedicated 66MHz/133MHz path from the graphics card to the system memory offering much greater bandwidth than the 32-bit PCI bus does. AGP enabled 3D graphics cards can directly access main memory across this fast path instead of using local memory.

## FIC Unique Innovation for Users (NOVUS) - Enhanced Mainboard Features and System Support

### ■ LogoGenie

A user friendly GUI supporting Windows 95/98/98SE (not Windows 2000/NT/ME), LogoGenie allows you to customize, create or select a Logo which will be displayed when the system is booting.



#### **NOTE:**

1. LogoGenie supports Award BIOS only.
2. If you create a Logo file (.bmp) by LogoGenie, the file size must be 640 x 464 x 256 colors.

To enable this utility, please proceed as follows:

1. Insert CD Pro. Select LogoGenie from the Menu and follow the installation instructions.
2. After LogoGenie has been installed, go to Windows Start Box. In Programs Menu, select LogoGenie, then select LogoGenie.
3. Press F1 to read Help file to understand how to use this software if it is new to you.

### ■ BIOS Guardian

BIOS Guardian by default is enabled. It must be disabled in order to reflash BIOS, thus effectively acts as a fire-wall against viruses that can attack the BIOS while the system is running.



**WARNING:** While excute Step3 below, please do not turn off the system power in order to avoid BIOS damage.

BIOS Guardian can be disabled as follows:

1. Go to BIOS Set Up Menu. (Press **Del** key while booting.)
2. Go to Advanced BIOS Features Set Up Submenu.
3. Disable BIOS Guardian.
4. Save the setting, and restart system.



**NOTE:** However, if it is disabled and while boot the system, the POST screen will be held and shows you the message to let you know the current status of BIOS Guardian. To press **G** key will enable the BIOS Guardian again; or simply to press the **space bar** will continue the booting process.

■ Easy Key

Instead of completing the multi-layered BIOS setup process these 3 Easy Key functions provide direct access to Sub-Menu when completing BIOS settings adjustments.

Easy-Keys are as follows:

- Ctrl + c:** To enter clock settings menu.
- Ctrl + p:** To load Performance Default settings and restart.
- Ctrl + f:** To load Fail-Safe Default settings and restart.

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