

## Overview

The 1stMainboard KA11 is the industry's first Pentium® III ready Mainboard supporting 133 MHz Front Side Bus (FSB). With 133 MHz FSB, the 1stMainboard KA11 moves towards bridging the gap between system performance and ever increasing processor speeds. The CPU converter card allows support for the Socket 370 architecture.

Support for AGP 4x bandwidth increases the AGP bus from 66 MHz to 133 MHz, providing improved data transfer speeds for graphics applications and reducing power consumption. Based around the state-of-the-art architecture of the new VIA Apollo Pro 133A & Mobile South chipset, the KA11 has 4 DIMM for up to 1 GB of SDRAM.

The 1stMainboard KA11 is also the first motherboard to come equipped with the new NOVUS range of innovative features. One of the features of NOVUS is *AudioAlert!*, the World's first voice warning system for motherboards. In the event of no CPU, memory or VGA being detected, the *AudioAlert!* facility will provide an audible voice warning.

Other features include *EasyKey*, 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.

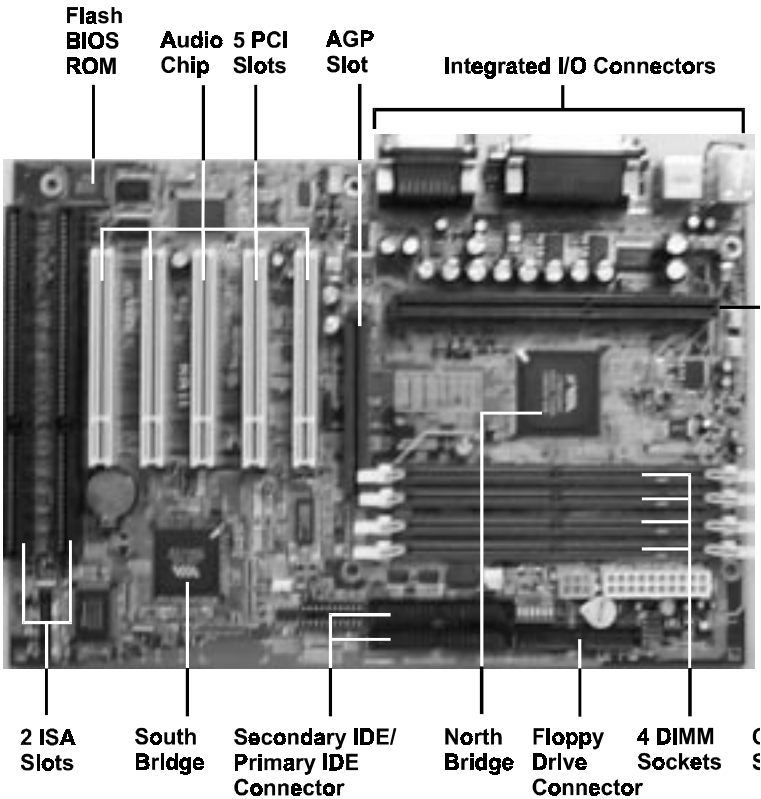
Support for the Ultra DMA/66 protocol and its high-speed interface further ensures that data transfer speeds are improved, especially for long sequential transfers required by audio/visual applications. The KA11 also boasts Auto Power Failure Recovery and Keyboard/Mouse Power On functions, and has plenty of room for expansion through 1 AGP, 5 PCI and 2 ISA slot. The ATX sized solution is also PC98 and Y2K compliant.

## Package Checklist

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

- The mainboard
- This user manual
- One floppy disk drive cable
- One HDD cable
- Software utilities

## The KA11 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 95, Windows 98, Windows NT 4.0, Windows 2000, and OS/2.

### ■ Leading Edge Chipset

VIA Apollo Pro 694X and 596B provide integrated DRAM controllers with new Dynamic Power Management Architecture (DPMA), concurrent PCI (2.0/2.1), AGP 1.0 compliant and USB.

### ■ Flexible Processor Support

Onboard CPU Slot supports:

Intel® Pentium® III 450-733 MHz at 100/133 Front Side Bus

Intel Pentium® II 233-450 MHz at 66/100 Front Side Bus

Intel® Celeron™ 266-433 MHz at 66 MHz Front Side Bus

Intel® Celeron™ PPGA 300-533 MHz at 66/100 Front Side Bus via CPU converter card.

### ■ Versatile Main Memory Support

Accepts up to 1GB DRAM using four DIMMs of 8, 16, 32, 64, 128, 256MB with support for lightning-fast SDRAM (66/100/133MHz). The latest Virtual Channel Memory (VCM) SDRAM also supported.

### ■ Enhanced PCI Bus Master IDE Controller with Ultra DMA/33 and Ultra DMA/66 Support

Integrated Enhanced PCI Bus Master IDE controller features two dual-channel connectors that accept up to four Enhanced IDE devices, including CD-ROM and Tape Backup Drives, as well as Hard Disk Drives supporting the new Ultra DMA/66 protocol. Standard PIO Mode 3, PIO Mode 4, DMA Mode 2, DMA Mode 4 devices are also supported.

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- **AGP, ISA, and PCI Expansion Slots**

One AGP Bus expansion slot, five PCI Bus expansion slots, and two ISA Bus provide the room to install a full range of add-on cards.

- **Super Multi Input/Output (I/O) Support**

Integrated Plug and Play multi-I/O chipset features one high-speed UART 16550 compatible serial ports, one infrared port, one EPP/ECP capable parallel port, and one FDD connector.

- **Convenient Rear Panel USB Connection Support**

Two USB ports integrated in the rear I/O panel with one manufacturing optional USB connector for front panel connection allow convenient and high-speed Plug and Play connections to the growing number of USB compliant peripheral devices on the market.

- **Remote Wake On LAN Support**

Onboard Wake On LAN (WOL) connector allows remote management on your network even the system is power off. The feature provides a simpler and convenient control to LAN-based networks.

- **Onboard Accelerated Graphics Port (AGP)**

The motherboard is installed one 32-bit AGP bus with a dedicated 66MHz/133MHz path from the graphics card to the system memory (in 4x mode) offering much greater bandwidth than the 32-bit PCI bus does. The board is fully compliant with the AGP 1.0 specification. AGP enabled 3D graphics cards can directly access main memory across this fast path instead of using local memory. To make use of the improved AGP performance, the motherboard should be installed with SDRAM type memory and the VGA card and drivers should also be fully AGP compliant. Using Microsoft's Windows 98 and Windows 2000 which implement DirectDraw will allow the system to take full use of AGP's benefits without the need to install additional drivers.

## ACPI Ready

This mainboard fully implements the new ACPI (Advanced Configuration and Power Interface) 1.0 Hardware and BIOS requirement. If you install ACPI aware operating system, such as Windows 98, you fully utilized the power saving under ACPI.

It is compatible with all other none ACPI operating systems. If you want to setup ACPI feature under Windows 98, please follow the description below: Run Windows 98 setup by using **setup/p j** on the command line for installing Windows 98 with the ACPI control feature.

If you type **setup** without the parameter **/p j**, Windows 98 will be installed as APM, PnP mode, no ACPI will be used.

For more detail information, please visit the web site of Microsoft. Its address is: [www.microsoft.com/hwtest/](http://www.microsoft.com/hwtest/).

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

### ■ LogoGenie

A user friendly GUI supporting Windows 98, LogoGenie allows you to customize, create or select a Logo which will be displayed when the system is booting.

*Before execute this LogoGenie function, please make sure the related BIOS feature, BIOS Guardian, is disabled; and refer to its related README file.*



#### NOTE:

1. LogGenie supports Award BIOS only.
2. If you create a Logo file (.bmp) by LogoGenie, the file size must be 640 x 464 x 16 colors (around 145K).

To enable this utility, please proceed as follows:

1. Insert CD Pro 4.X. 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.  
Click three check boxes in the pop-up menu for making sure of the BIOS feature (*BIOS Guardian*) and other anti-virus software are disabled. Read README file carefully. After all these, the next procedure proceeds.
3. In LogoGenie Dialogue Box, choose one of 3 options; and then proceed as introduced in 4 or 5 steps listed on the left hand side of the Dialogue Box.
4. After complete the last step, press OK. The system will reboot to restore the BIOS with your new customized Logo.
5. The system will automatically restart with your customized Logo that appears in background.



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

#### ■ 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.

BIOS Guardian can be disabled as follows:

1. Go to BIOS Set Up Menu. (Press **Del** key while booting.)
2. Go to Chipset 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's 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.

### ■ Audio Alert

After complete a system upgrade, should the computer be assembled incorrectly, a friendly onboard voice caution, will advice of the error during system boot up.

A convenient onboard LED will also flash, waring that there is a system problem. If you do not hear the Audio Alert , please check that your speakers are connected.

Audio warning are activated as follows:

**No CPU:** 'Caution! CPU not detected. Please check your PC'

**No Memory:** 'Caution! Memory not detected. Please check your PC'

**No Graphics:** 'Caution! VGA not detected. Please check your PC'

### ■ Overclock Partner

Should the system not start because clock speed settings have been increased to a speed incompatible with the system, the Overclock Partner allows you to reboot at system default settings, protecting hardware from any damages caused by changes to the BIOS.



Complete the following steps:

1. Turn the system off.
2. Restart while holding down the **Insert** key. It is important that the **Insert** key is held down until the default clock speed is shown on the POST screen.
3. Enter BIOS setting menu, and re-set clock speed desired or default.

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