

Overview

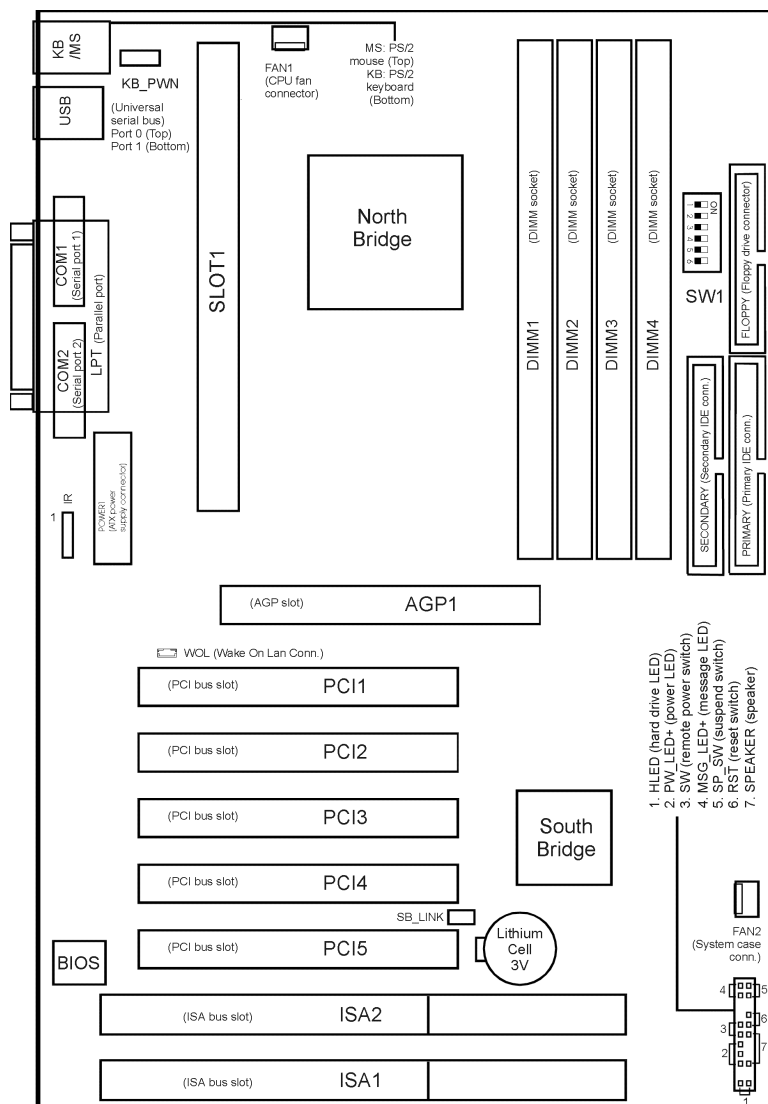
Based on the advanced [VIA Apollo Pro Plus AGPset](#), the KA-6110 combines blistering [Pentium II/III](#) processor performance with support for [Accelerated Graphics Port \(AGP\)](#) interface that provides a dedicated path for memory to deliver faster system performance and arcade-quality 3D graphics. Also, it accepts three host bus frequencies, 66MHz, 100 and 133MHz, to run a range of [Intel Pentium II/III](#) and [Celeron](#) processors. Compliant with the [Microsoft PC97](#) standard at both the hardware and BIOS levels, the KA-6110 comes with support for [ISMP](#) which continuously checks the thermal and voltage status of your system changes where necessary and reports any discrepancies to a network administrator. The KA-6110 reduces the total cost of ownership with support for [DMI \(Desktop Management Interface\)](#) and manufacturing optional [Intel LANDesk Client Manager \(LDCM\)](#) software which allows for optimized system manageability across a network. For the most up-to-date information about your motherboard and the latest FAQs and BIOS updates, visit FIC Online at <http://www.fic.com.tw>.

Package Checklist

Please check that your package contains all the items listed below. If you discover that any item is damaged or missing, please contact your vendor.

- [The KA-6110 mainboard](#)
- [This user's manual](#)
- [One IDE ribbon cable](#)
- [One floppy disk drive ribbon cable](#)
- [Software utilities](#)

The KA-6110 Mainboard



Main Features

The mainboard comes equipped with the most advanced new features that not only optimize the performance of the latest processors but also enhance the manageability, power management capabilities, and user-friendliness of your system. This section provides detailed information on these features, and how they are implemented on the mainboard.

■ Easy Installation

Award BIOS with support for Plug and Play, auto detection of IDE hard drives, LS-120 drives, MS Windows® 95, Windows® 98, Windows® NT, and OS/2.

■ Flexible Processor Support

Onboard 242-pin Slot1 and switching voltage regulator support complete range of leading-edge processors:

Intel Pentium® 333 – 450 MHz, Intel Pentium® 450 – 550 MHz, and Intel Celeron® 466 – 466 MHz processors.

■ Various External Bus and CPU/Bus Frequency Ratio Support

The motherboard supports the Bus frequency of 66/100/133MHz and the CPU/Bus frequency ratio of

3.5x/4.0x/4.5x/5.0x/5.5x/6.0x/6.5x/7.0x/7.5x. (Please read **Install the CPU** in Chapter 2 for more information).

■ Leading Edge Chipset

VIA APOLLO Pro Plus chipset with integrated DRAM controllers as well as support for Intel's new Dynamic Power Management Architecture (DPMA), Concurrent PCI (PCI 2.0 and 2.1), AGP 1.0 compliant, and USB.

■ Versatile Main Memory Support

Accepts up to 1GB DRAM in four banks using DIMMs of 8, 16, 32, 64, 128, and 256MB with support for SDRAM (66MHz, 100MHz and 133MHz) memory. For 133 MHz SDRAMs, the latest Virtual Channel Memory (VCM) SDRAM is also supported.

■ Onboard IrDA Connector

An IrDA connector for wireless infrared connections is available.

■ Lightning-fast SDRAM Performance

The mainboard supports 66MHz and the new generation of lightning-fast 100MHz/133MHz SDRAM via its onboard 168-pin DIMM sockets. SDRAM delivers an added boost to overall system performance by increasing the CPU-to-memory data transfer rate. SDRAM performance on the mainboard is further boosted by its integrated I²C controller, which optimizes the memory timing settings.

■ Onboard Accelerated Graphics Port (AGP)

One 32-bit AGP slot supports 1x/2x AGP VGA cards for superior 3D video performance with transfer speeds up to 264MB/second under 1x AGP transfer mode and up to 528MB/second under 2x AGP transfer mode.

■ USB Support

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

■ Super Multi Input/Output (I/O) Support

Integrated VT82C596B super multi-I/O chipset features one high-speed UART 16550 compatible serial port and one serial connector, one EPP/ECP capable parallel port, and one Floppy Disk Drive connector. It is also IrDA 1.0 compliant.

■ Remote Wake On LAN Support

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

■ Ultra ATA/66 IDE HDD Support

Ultra ATA/66 IDE hard drives can deliver a maximum data transfer rate of 66 MB/s. With the support for it, system performance can be greatly enhanced.

■ Intel LANDesk Client Manager (LDCM) Software Support (optional)

LDCM is a DMI-compliant application for local and network management of desktop client systems. The application reduces the number of help desk calls by supplying the user with self diagnostics such as a PC health meter and local alert of potential problems.

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 systems, such as Windows® 98, you can fully utilize the power saving features under ACPI. It is compatible with all other non ACPI-aware operating systems.

If you want to setup ACPI features under Windows® 98, please follow the instructions below:

Run Windows® 98 setup by typing **setup /p j** at the command prompt for installing Windows® 98 with the ACPI control features.

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 detailed information, please visit the web site of Microsoft. The URL is <http://www.microsoft.com/hwtest/>.

The following are a few examples about the advantages of ACPI -

■ Soft-Off Support

The mainboard's Soft-Off feature allows you to turn off your computer using the operating system. This feature requires a power supply with a soft-off power controller.

■ Remote Ring-On

The Remote Ring-On function allows your computer to be turned on remotely via a modem while it is in sleep mode. This feature is particularly useful when you are expecting a fax late at night and leave only your modem on to minimize power consumption. As soon as the phone rings, the modem automatically turns on the system, which answers the phone and downloads the fax. Then the computer shuts

down again, thereby minimizing its power consumption. The Remote Ring-On function requires a power supply with a soft-off power controller.

■ **RTC Alarm**

The RTC alarm feature allows you to preset the computer to wake-up at a certain time to implement a number of useful functions, such as sending out a fax late a night automatically.