

Overview

The 1stMainboard PAG-2130 is a MicroATX-sized Super 7 solution offering high performance, the highest speeds for super 7 processors and the very latest in quality onboard features. It supports the AMD® K6™III 400-450 MHz @ 100 MHz Front Side Bus and Pentium® MMX, AMD® K6, AMD® K6-2, Cryix MII 300-366, IBM and IDT WinChip processors.

The PAG-2130 is based around the advanced architecture of the VIA MVP4 and Super South chipset, giving advanced levels of performance with high quality audio/visual capabilities. The PAG-2130 comes with a standard 1MB (manufacturing option: 2MB/512KB) of on-board cache. With up to 2MB of SRAM cache on-board, the AMD K6-III 400-450MHz processors will significantly boost the PC's performance.

The Super South chipset is a PC98 compliant PCI Super-I/O integrated peripheral controller with integrated super-I/O, USB controller (with support for four USB ports), keyboard controller, RTC, plug and play, ACPI, enhanced power management, and temperature, voltage, and fan-speed monitoring. With support for the new Ultra DMA66 protocol and its high-speed interface, data transfer speeds and hard drive performance are significantly improved.

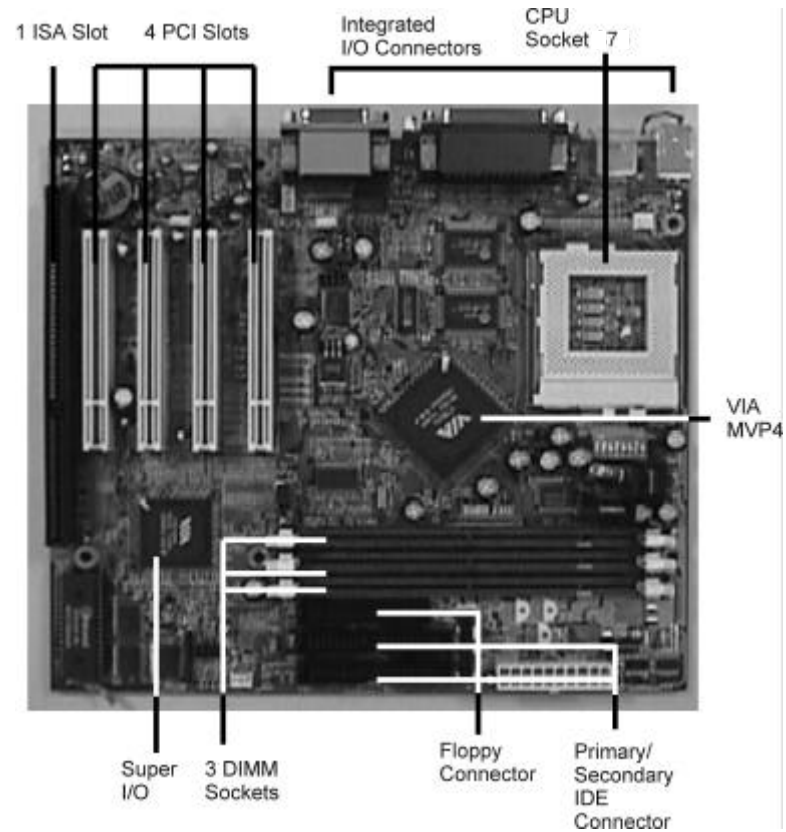
The PAG-2130 has 3 DIMM for up to 768 MB SDRAM, and also offers ECC memory support. It is equipped with, 4 PCI, and 1 ISA expansion slot. The PAG-2130 is fully PC99 and Y2K compliant, and is ACPI ready, ensuring improved energy efficiency. Other features include Wake-On-LAN, IrDA, Intel LDCM software (manufacturing option) and CD Pro with enhanced drivers. For the most up-to-date information about your mainboard 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 PAG-2130 mainboard
- ✓ This user's manual
- ✓ One IDE ribbon cable
- ✓ One floppy disk drive ribbon cable
- ✓ One ribbon cable with bracket for COM2 connector
- ✓ Software utilities

The PAG-2130 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 321-pin ZIF socket and switching voltage regulator support complete range of leading-edge processors:

Intel Pentium 100 -160MHz, AMD K5 100 – 200MHz, Intel Pentium MMX 166 – 233MHz, Cyrix /IBM PR166 – PR266MHz, AMD K6 166 - 300MHz, AMD K6-2 266 – 475MHz, AMD K6-3 400/450MHz, or Cyrix MII 300 – 366MHz processors.

■ Various External Bus and CPU/Bus Frequency Ratio Support

The motherboard supports the Bus frequency of 66/66.8/75/83/95/100/105MHz and the CPU/Bus frequency ratio of 1.5x/2x/2.5x/3x/3.5x/4x/4.5 x/5x/5.5x by a switching voltage regulator which accepts from 1.8V to 3.5V. (Please read **Install the CPU** in Chapter 2 for more information).

■ Ultra-fast Level II Cache

Supports up to 2MB onboard Pipeline Burst Level II write-back cache.

■ Leading Edge Chipset

VIA APOLLO MVP4 chipset with integrated DRAM and L2 cache 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 768MB DRAM in three banks using DIMMs of 8, 16, 32, 64, 128, and 256MB with support SDRAM (66MHz and 100MHz) memory.

■ **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 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 IC controller, which optimizes the memory timing settings. Besides, the latest Virtual Channel Memory (VCM) is also supported on the mainboard.

■ **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 VT82C686 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.

■ 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.

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