

Overview

The new Socket 370 1stMainboard FA13 supports the latest high speed Intel® Pentium® III 450 – 933* MHz and Celeron™ 433 – 633* MHz processors at FSB speeds of 66/100/133 MHz. Support for the new Cyrix III processors is also provided at a FSB speed of 100MHz. The 1stMainboard FA13 is constructed around the ever popular and reliable VIA® Apollo Pro 133 chipset and with 4 DIMM offers support for up to 1 GB of SDRAM memory with ECC.

The 1stMainboard FA13 comes with a versatile range of I/O features such as 2 serial ports, 1 parallel port, 1 PS/2 mouse and 1 keyboard connector, 2 USB connectors. In addition, the 1stMainboard FA13 comes equipped with 2 dual channeled enhanced PCI bus master IDE connectors. This ATX sized solution has plenty of room for expansion through 1 AGP, 5 PCI and 2 optional ISA slots.

The 1stMainboard FA13 also boasts Auto Power Failure Recovery, Keyboard/Mouse Power On functions, is ACPI ready and is also PC99 (ISA option) and Y2K compliant. Included is the CD Pro disc with enhanced drivers and the new CD Plus package containing 9 bundled software solutions including Norton AntiVirus, Ghost, Virtual Drive.

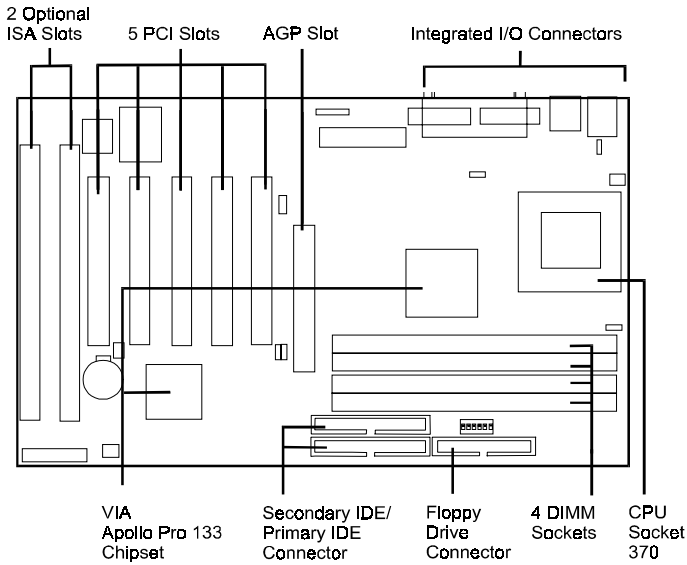
** Not yet tested*

Package Checklist

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

- ☒ The mainboard
- ☒ This user manual
- ☒ One FDD cable
- ☒ One HDD cable
- ☒ Advantage Card
- ☒ One ATA/66 cable
- ☒ Two Software CDs (CD Pro, CD Plus and its manual)

The FA13 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 2000, Windows NT 4.0, and OS/2.

■ Leading Edge Chipset

VIA Apollo Pro 133 chipset includes a CPU interface controller, integrated memory controller, integrated power management unit, concurrent PCI (PCI v.2.0 and 2.1), 3D video, IDE and ISA bus controller.

■ Versatile Main Memory Support

Accepts up to 1 GB DRAM using four DIMMs of 32, 64, 128, 256MB with support for lightning-fast SDRAM (66/100/133 MHz).

■ Flexible Processor Support

Onboard CPU socket supports:

Intel® Pentium® III Processor FC-PGA 450-950* and up at 100/133 MHz FSB

Intel® Celeron™ PPGA 433-633* MHz and up* at 66 MHz FSB

Cyrix® III 433/466/500/533/566 MHz* and up* at 100/133MHz FSB

(*: not tested yet)

■ ISA and PCI Expansion Slots

Two 16-bit ISA Bus and five 32-bit PCI Bus expansion slots provide the room to install a full range of add-on cards.



NOTE:

1. The PCI5 slot is shared with the (optional) ISA1 Slot.
2. The PCI5 slot only allows a slave card on it.

- **Enhanced PCI Bus Master IDE Controller with 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 Ultra DMA/33/66 protocol. Standard PIO Mode 3, PIO Mode 4, DMA Mode 2, DMA Mode 4 devices are also supported.

- **USB Support**

The integrated I/O connector on the edge of the board for allowing convenient, high-speed Plug and Play connections (up to four USB ports) to the growing number of USB compliant external peripheral devices on the market.



NOTE: USB3 connector is manufacturing optional.

- **Remote Wake-Up Support**

One LAN wake-up connector, WOL, supports LAN cards equipped for remote wake-up functionality; also, an additional Wake-On-Ring connector awakes the system while the ring signal via modem.

- **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 IR connector, one EPP/ECP capable parallel port, and one FDD connector.

- **SB-LINK[®] for the Audio Card with PCI Bus**

The 2x3 pin SB-LINK[®] header accepts the Creative CT4600 series PCI audio cards with PCI solution to connect the Legacy Sound Blaster[®] compatible audio to the PCI bus.

■ 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 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. 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. (*Windows 2000 Professional supports ACPI functions.*)

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/.



NOTE: If BIOS date is after 12/02/1999, the ACPI will be installed automatically. Users do not need to setup in the above-mentioned way.

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. LogoGenie 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 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'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.

■ Clockometer

Clockometer is a Windows 98 compatible, attractive and user friendly Graphic User Interface (GUI). Clockometer enables you to change clock speed settings directly, without having to enter the BIOS Sub-Menus. With the on-screen display panel you can easily monitor your new clock speed settings with gauges that identify your system speed, Front Side Bus settings and CPU Ratios

On screen buttons:

1. "+" and "-" buttons : adjust the Front Side Bus (FSB)and CPU ratio. (the 'hand' cursor means the active button)
2. "OK" button : changes the FSB and CPU ratio (if adjustable) settings right away. If you do not save your new setting, your system will not implement the new setting when rebooting the next time.
3. "SAVE" button : save your new settings for rebooting the computer.
4. "Quit" button will escape the Clockometer program.
5. In order to run the other application programs more smoothly, it is strongly recommended to restart your computer after completing any adjustments.