

## Overview

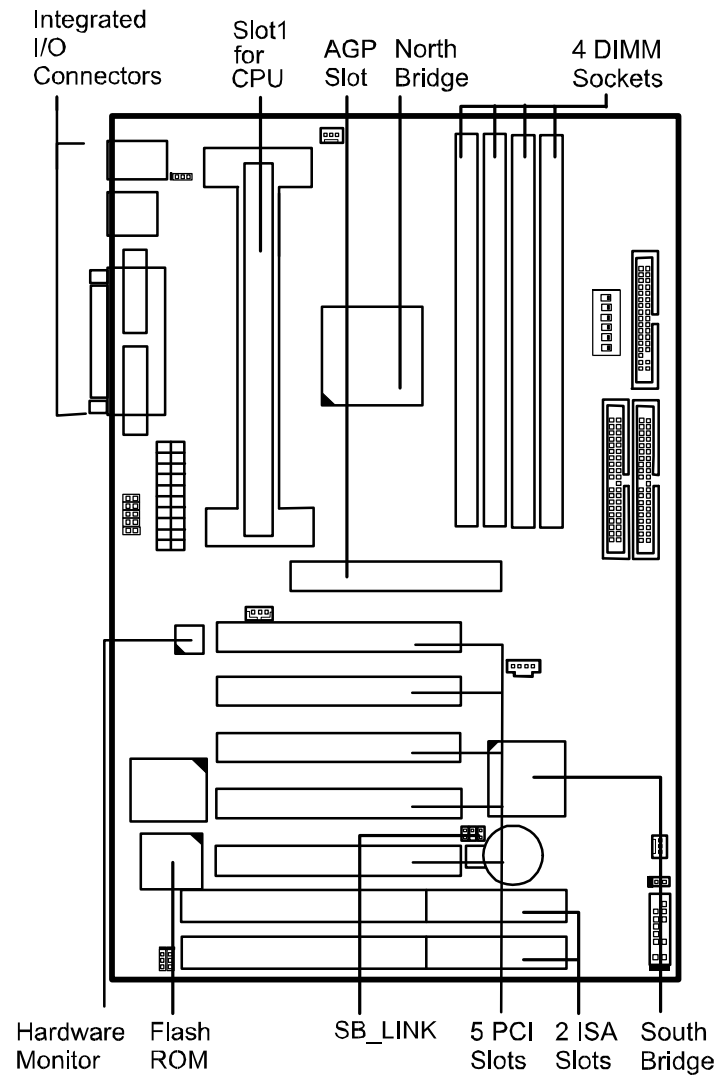
Based on the advanced 440 BX/Apollo Pro+/440 ZX chip, the board combines blistering Pentium II processor performance with support for the new Accelerated Graphics Port (AGP) interface that provides a dedicated path for memory to deliver faster system performance and arcade-quality 3D graphics. Also, it accepts two host bus frequencies, 66MHz and 100MHz, to run a range of Intel Pentium II and Celeron processors. Compliant with the Microsoft PC'97 standard at both the hardware and BIOS levels, the mainboard 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 board 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 mainboard and the latest FAQs and BIOS updates, visit FIC Online at [www.fic.com.tw](http://www.fic.com.tw).

### Package Checklist

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

- This mainboard
- This user manual
- One IDE device cable
- One floppy disk drive cable
- Retention mechanism assembly and Retention mechanism Attachment Mount (They may have been installed by manufacturer already)
- Software Utilities

## The Mainboard



## Main Features

### ■ Easy Installation

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

The mainboard utilizes the advanced features of the core chipset to optimize the unrivaled performance of the Intel Pentium II processor, providing users with a much richer video, audio, digital imaging and communications experience from multimedia software.

Onboard 242-pin Slot1 supports leading-edge processors: Intel Pentium II and Celeron 233/266/300/333/350/400/450/500MHz.

### ■ Versatile Main Memory Support

Accepts up to 1GB DRAM in four banks by using of 8, 16, 32, 64, 128, 256MB with support for SDRAM DIMMs.

### ■ 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.

### ■ Super Multi I/O

Integrated multi-I/O chip provides keyboard (including power-on password and specific key)/mouse wake-on capability to provide more security and convenience.

### ■ Wake-On-LAN Support

Onboard WOL connector allows remote management in a simpler and convenient control to LAN-based networks.

■ **Advanced Hardware Monitoring**

This board equipped W83782D for the detection of the CPU voltage to achieve a more stable system performance. It also supports: two-fan speed, power supply voltage, system temperatures monitoring; and the CPU temperature reporting to lower the system overheating problem. W83782D provides both ISA and I<sup>2</sup>C serial bus interface and selectable address setting for application of up to eight devices.

■ **LDCM Software Support (manufacturing option)**

Intel LANDesk Client Manager is a Desktop Management Interface (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 for potential problems.

■ **SB-LINK for the Audio Card with PCI Bus**

The 2x3 SB-LINK header accepts the Creative CT4600 series PCI audio cards with PCI solution to migrate the legacy Sound Blaster compatible audio to the PCI bus.

■ **Optional CPU Thermal Monitoring Alert (Available on the Deschutes CPU)**

A special heat sensor monitors the CPU temperature to make sure that the system is operating at a safe heat level. If the temperature is too high, the sensor automatically generates an SMI (System Management Interrupt) to slow down the CPU clock frequency. CPU utilization is restored to normal levels when the temperature returns to a safe level.

■ **Optional System Over-Voltage Report**

System voltage levels are monitored. It warns you that the CPU is overheating, if LDCM is installed. The monitored range for system voltage is -12V, -5V, +12V, +5V, +3.3V, CPU core voltage  $\pm 10\%$ . This board does not provide onboard 3.3V support; therefore, your ATX power supply must provide 3.3V voltage.

■ **Restore on AC/Power Loss**

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The mainboard offers a features that when the system is shut down owing to the power failure, the system will not be back to power on by itself. This feature allows you to set the system back to which power status of the system when the system power is resumed.

## 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, visit the web site of Microsoft. Its address is: **[www.microsoft.com/hwtest/](http://www.microsoft.com/hwtest/)**.

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

- **Soft-Off Support**

The mainboard 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.

- **RTC Alarm**

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

■ **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 usefully when you are expecting a fax late night and leave only your modem on to minimize power consumption. As soon as possible the phone rings, the modem automatically turn on the system, which answers the phone and downloads the fax. Then the computer shuts off again, thereby minimizing its consumption of power. The Remote Ring-On function requires a power supply with a soft-off power controller.