

## Overview

The 1stMainboard CP11/CP11Z/CP11B is an ATX sized Socket 370 solution supporting the Intel® Celeron™ PPGA 300-500 MHz processor, with 66 MHz Front Side Bus support. The CP11/CP11Z/CP11B is based around the VIA Apollo Pro Plus /Intel® 440ZX/ Intel® 440BXchipset and its advanced Mobile South architecture, which incorporates the very latest in cutting edge core logic technologies.

The CP11/CP11Z/CP11B supports the new Ultra DMA/33 protocol (CP11 also supports Ultra DMA/66) and its high-speed interface, which significantly improves hard drive performance and data transfer speeds. This is especially the case for long sequential data transfers typically associated with audio/visual applications. With 4 DIMM (CP11 allows 2 DIMMs), there is up to 1GB (256MB for CP11Z) of SDRAM onboard, while ECC memory support is also provided (CP11Z does not support ECC). With 1 AGP, 5 PCI and 2 ISA slots, there is plenty of room for expansion.

The CP11/CP11Z/CP11B comes equipped with numerous other advanced features, such as Auto Power Failure Recovery, Keyboard/Mouse Power on and 1stMainboard CD Pro, which provides users with easy access to enhanced drivers. Improved power consumption and efficiency are ensured through the ACPI function, while the Hardware monitoring facility provides effective system monitoring and control. The CP11/CP11Z/CP11B integrates a full set of standard I/O features onboard, including 2 serial ports, 1 parallel port, 1 PS/2 keyboard/mouse connector, 2 USB connectors and 1 optional USB pin header. Furthermore, the CP11/CP11Z/CP11B is fully PC98 and Y2K compliant and also provides CD-in, IrDA and Wake-on-LAN connections.

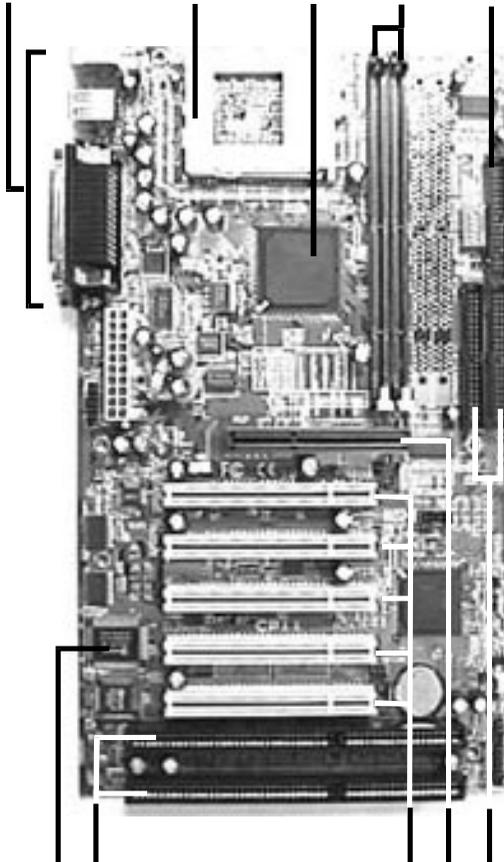
## Package Checklist

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

- The CP11/CP11Z/CP11B mainboard
- This user manual
- One floppy disk drive cable
- One HDD cable
- CD-Pro software utilities

## The CP11/CP11Z/CP11B Mainboard

Integrated I/O Connectors    CPU Socket 370    Intel ZX/BX/ VIA Apollo Pro Plus    2 DIMM Sockets    Floppy Connector



Super I/O  
2 ISA Slots

5 PCI Slots    AGP Slot    Primary/Secondary IDE Connector

Chapter 1  
Overview



**NOTE:** CP11/CP11B mainboards have four DIMM sockets, PCI5 on CP11Z is for slave devices only, and core chipset is VIA Apollo Pro Plus/ Intel 440BX.

## 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, and OS/2.

### ■ Leading Edge Chipset

VIA Apollo Pro Plus (of CP11)/Intel 440ZX (of CP11Z)/Intel 440BX (of CP11B) 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.

### ■ Flexible Processor Support

Onboard Socket 370 supports leading-edge processors:  
Celeron™ PPGA processors 300/333/366/400/433/466/500 MHz and up.

### ■ Various External Bus and CPU/Bus Frequency Ratio Support

The board supports the Bus frequency of 66 / 75\* / 83\* / 100 / 105\* / 110\* / 112\* / 115\* / 120\* / 124\* / 133\* / 140\* / 150\*MHz and the CPU/Bus frequency ratio of 3.5x / 4x / 4.5x / 5x / 5.5x / 6.0x / 6.5x / 7.0x / 7.5x. (Please read **Install the CPU** in Chapter 2 for more information).

### ■ Versatile Main Memory Support (of CP11/CP11B)

Accepts up to 1GB RAM using four DIMMs of 8, 16, 32, 64, 128, 256MB with support for lightning-fast SDRAM (66/100MHz).

### ■ Versatile Main Memory Support (of CP11Z)

Accepts up to 256MB RAM using two DIMMs of 8, 16, 32, 64, 128MB with support for lightning-fast SDRAM (66/100MHz).

### ■ Onboard IrDA Connector

An IrDA connector for wireless infrared connections is available.

- **Enhanced PCI Bus Master IDE Controller with Ultra DMA/33 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 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<sup>®</sup> for the Audio Card with PCI Bus**

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

- **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.

- **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.

## Intelligent Properties

This 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.

- Optimized Celeron® PPGA Processor Performance

The mainboard utilizes the advanced features of the core chipset to optimize the unrivaled performance of the [Celeron® PPGA](#) processor with MMX® technology, allowing you to enjoy a richer video, audio, digital imaging and communications experience from the latest generation of multimedia software.

- Intel LANDesk® Client Manager (optional)

The mainboard comes with optional Intel LANDesk® Client Manager, a Desktop Management Interface (DMI) compliant application that simplifies local and network management of desktop client systems by monitoring PC health, and by alerting local and designated remote users of potential problems. For example, the application will indicate when memory usage is high or hardware components are likely to fail. This capability provides new levels of manageability to deliver a lower cost of PC ownership by maximizing system uptime, increasing user productivity and reducing the number of help desk calls. Because it is industry-standard DMI compliant, Intel LANDesk® Client Manager can be used with other DMI-based network management tools.

## 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/).

The major features of ACPI were listed as follows:

### ■ 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 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.

### ■ 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.

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