

Overview

The CP31-AG is a MicroATX sized Socket 370 mainboard with Video and Audio on board. The CP31-AG supports the Intel Celeron PPGA 366-433 MHz processor, with 66/75/83/100/112/133 MHz Front Side Bus support. Based around the VIA Apollo Pro Plus chipset, the CP31-AG is a feature rich mainboard.

Superb stereo sound is provided by the Yamaha 740C onboard audio chip, and high quality graphics capabilities come with onboard video, which is provided by the ATI Rage Pro Turbo, (the ATI Rage XL AGP with 8MB of SDRAM is offered as a manufacturing option).

The CP31-AG has 2 DIMMs, providing up to 512 MB of SDRAM, and 3 PCI and 1 ISA expansion slot. The CP31-AG is ACPI ready, ensuring improved power management, and is PC98 and Y2K compliant. Other features of the CP31-AG (manufacturing option) and CD Pro with enhanced drivers. A hardware monitoring facility offers the latest in system control and protection.

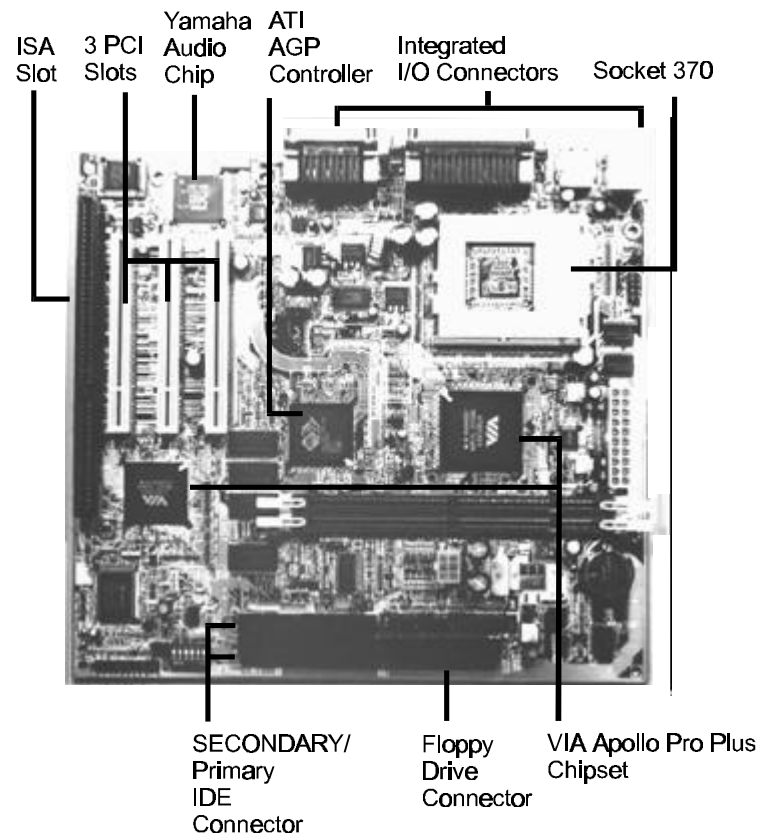
The CP31-AG offers CD-in, IrDA, Wake-on-LAN and AMC connections, as well as a complete set of standard I/O features such as 2 serial ports, 1 parallel port, 1 PS/2 mouse and keyboard connector and 2 USB connectors. There is also 1 Line-out, Line-in, and Mic-in. Furthermore, the CP31-AG offers 1 digital flat panel pin header and 1 optional front USB pin header.

Package Checklist

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

- ✓ The CP31-AG mainboard
- ✓ This user manual
- ✓ One IDE ribbon cableThis user manual
- ✓ One floppy disk drive ribbon cable
- ✓ Software utilities

The CP31-AG Mainboard



Main Features

The CP31-AG mainboard comes with the following high-performance 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 OS2™.
- **Flexible Processor Support**
Onboard Socket 370 supports leading-edge processors:
Celeron™PPGA processors 366/400/433 MHz.
- **Leading Edge Chipset**
VIA Apollo Pro Plus chipset includes a CPU interface controller, integrated SDRAM controller, synchronous ISA bus controller, integrated power management unit, concurrent PCI (PCI v.2.0 and 2.1), and USB.
- **Versatile Main Memory Support**
Accepts up to 512MB DRAM in two banks using DIMMs of 8, 16, 32, 64, 128, 256MB with support for SDRAM memory.
- **ISA and PCI Expansion Slots**
One 16-bit ISA and three 32-bit PCI expansion slots provide all the room you need to install a full range of add-on cards.
- **USB Support**
Two USB ports integrated in the rear I/O panel allow convenient, high-speed Plug and Play connections to the growing number of USB compliant external peripheral devices on the market.
- **Keyboard/Mouse Power-On and Power Failure Support**
The BIOS provides the features that allow users to configure the way to power-on the system by keyboard or mouse; also the feature of deciding the system status after back from power failure.

- **Enhanced PCI Bus Master IDE Controller 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.
- **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.
- **Remote Wake-Up Support**
One LAN wake-up connector supports LAN cards equipped for remote wake-up functionality.
- **Intel LANDesk® Client Manager (LDCM) Software Support**
LDCM 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.
- **Compact Yamaha Audio Subsystem for Sound and Game**
The onboard Yamaha audio controller for the PCI Bus. It provides 64-voice XG wavetable synthesizer and supports DirectSound hardware accelerator, Downloadable Sound (DLS), and DirectMusic accelerator. It also provides OPL3, Sound Blaster Pro, MPU401 UART mode and Joystick function for various PC games on real DOS mode that without software drivers. The board came with three audio jacks: MIC_IN, LINE_IN, LINE_OUT; and one connector for joystick with MIDI interface.

Advanced Features

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 VIA Apollo Pro Plus 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.

■ Integrated Accelerated Graphics Port (AGP) Controller

The integrated ATI AGP controller provides a dedicated 66MHz/133MHz path to the system memory offering a much greater bandwidth than the 32-bit PCI bus does which currently operates at a speed of 33MHz. AGP enabled 3D graphics cards can directly access main memory across this fast path instead of using local memory. This is especially important for memory-intensive 3D graphics applications so as to produce a more detailed 3D texture, greater clarity and higher levels of resolution without compromising system performance. This mainboard is fully compliant with the AGP 1.0 specification. To make use of the improved AGP performance, the mainboard should be installed with SDRAM type memory should also be fully AGP compliant. Using Microsoft [Microsoft Windows™ 98](#) and forthcoming versions of [Windows™ 2000](#) which implement [DirectDraw™](#) will allow the system to take full use of AGP benefits without the need to install additional drivers.

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.

LDCM Key Features

- Health Monitoring
- Real-Time Alerting
- Remote Accessibility
- Extensive Instrumentation

The LANDesk® Client Manager, including the client interface and the administrator console used by the network administrator or manager, has a graphical user interface for ease-of-use and understanding and can be used for monitoring PC health, configuring key system files and viewing inventory.