

Chapter 1

INTRODUCTION

The MS-6315 (V3.0) Micro ATX mainboard is a high-performance computer mainboard based on Intel® 815E/EP chipset. The MS-6315 is optimized to support the Intel® Pentium® III (FC-PGA) processor for high-end business/personal desktop markets.

The Intel® 815E (Option G) chipset integrates a Display Cache SDRAM controller that supports a 32-bit 133MHz SDRAM array for enhanced integrated 3D graphics performance. It is a highly-flexible chipset which is designed to extend the basic graphics/multimedia PC platform up to the mainstream performance desktop platform.

The Intel® 815E/EP chipset implements the host address, control, and data bus interfaces within a single device. It takes advantage of the pipelined addressing capability of the processor to improve the overall system performance. In addition, the chipset also integrates a system memory controller that supports a 64-bit 100/133 MHz SDRAM array.

The Intel® 82801BA (ICH2) chipset is a highly integrated multifunctional I/O Controller Hub that provides the interface to the PCI Bus and integrates many of the functions needed in today's PC platforms. It communicates with the host controller over a dedicated hub interface and provides added flexibility in designing cost-effective system solutions.

Mainboard Features

CPU

- Support Socket370 for Intel® Celeron™/Pentium® III (FC-PGA) processor and Cyrix® III processor.
- Support 500MHz, 550MHz, 600MHz, 633MHz, 667MHz and faster

Chipset

- Intel® 815E/EP chipset. (544 BGA)
 - AGP 4x/2x universal slot
 - Support 66/100/133MHz FSB
- Intel® ICH2 chipset. (360 EBGA)
 - AC'97 Controller Integrated
 - 2 full IDE channels, up to ATA100
 - Integrated 10/100Mbit/sec Ethernet (optional)
 - Low pin count interface for Winbond SIO
 - 4USB ports

Main Memory

- Support three 168-pin DIMM sockets.
(3 Double Sided DIMMs on 100MHz; 2 Double Sided DIMMs on 133MHz)
- Support a 32 to 512MB using 16/64/128/256Mbit technology.

Slots

- One CNR(Communication Network Riser).
- One AGP(Accelerated Graphics Port) 2x/4x slot.
- Three PCI 2.2 32-bit Master PCI Bus slots.
- Support 3.3v/5v PCI bus Interface.

On-Board IDE

- An IDE controller on the ICH2 chipset provides IDE HDD/CD-ROM with PIO, Bus Master and Ultra DMA66/100 operation modes.
- Can connect up to four IDE devices.

On-Board Peripherals

- On-Board Peripherals include:
 - 1 floppy port supports 2 FDD with 360K, 720K, 1.2M, 1.44M and 2.88Mbytes.
 - 2 serial ports (COMA + COMB)
 - 1 VGA port (optional)
 - 1 parallel port supports SPP/EPP/ECP mode
 - 4 USB ports (Rear * 2 / Front * 2)
 - 1 RJ45 Connector (optional)
 - 1 Line-In/Line-Out/Mic-In/Game port

Video

- GMCH chip integrated
- 2D/3D Graphics
- Flexible AGP In-Line Memory Module(AIMM) (optional)

Audio

- ICH2 chip integrated
- ADI 1881A
 - AC97 2.1 Compliant.
 - Support 2 Channel Audio

Network

- ICH2 Integrated LAN Controller
- Intel 82562 ET (optional)
 - ACPI and APM Supported (ET)
 - Wake-On-LAN and WFM 2.0 Supported (ET)
 - Backward Compatible software with 82557, 82558 and 82559
 - Support Basic AOL functionality (EM)

BIOS

- The mainboard BIOS provides “Plug & Play” BIOS which detects the peripheral devices and expansion cards of the board automatically.
- The mainboard provides a Desktop Management Interface (DMI) function which records your mainboard specifications.

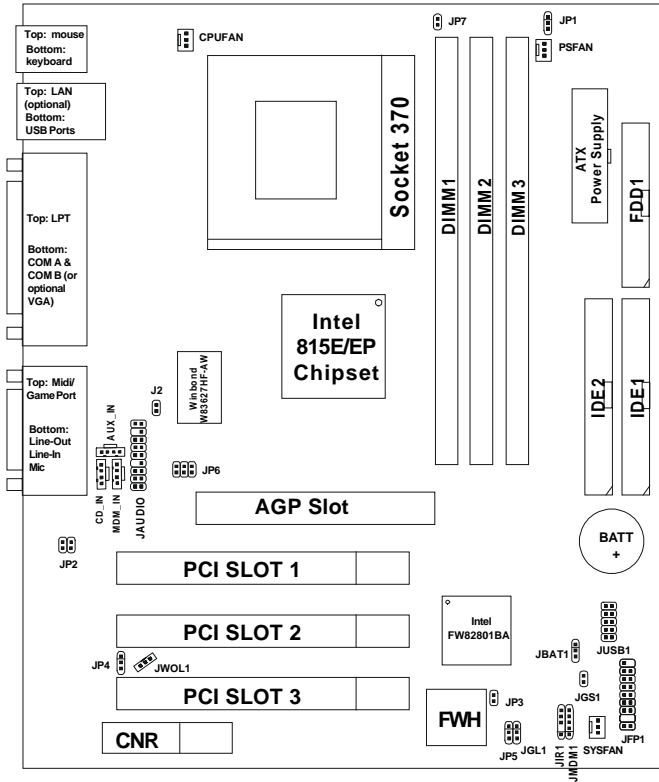
Dimension

- Micro ATX Form Factor

Mounting

- 6 mounting holes

Mainboard Layout



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