

Chapter 1

INTRODUCTION

The 815EP Pro and 815EP Pro-R (MS-6337, V3.0B) ATX mainboards are high-performance computer mainboards based on Intel® 815EP chipset. The MS-6337 is optimized to support the Intel® Pentium® III (FC-PGA) and VIA Cynix III processors for high-end business/personal desktop markets.

The Intel 815EP chipset contains two components: the 82815EP Memory Controller Hub (MCH) and the 82801BA I/O Controller Hub 2 (ICH2). The MCH integrates a 66/100/133-MHz, P6 family system bus controller, AGP (2X/4X) discrete graphics card, 100/133-MHz SDRAM controller, and a high speed accelerated hub architecture interface for communication with the ICH2. The ICH2 integrates an UltraATA/100 controller, 2 USB host controllers with a total of 4 ports, LPC interface controller, FWH interface controller, PCI interface controller, AC'97 digital link, integrated LAN controller, and a hub interface for communication with the MCH.

Mainboard Features

CPU

- Support Socket370 for Intel® Pentium® III(FC-PGA)/VIA Cynix III processor.
- Support 500MHz, 550MHz, 600MHz, 633MHz, 667MHz, 700MHz, 733MHz, 800MHz, 866MHz, 933MHz, and 1GHz

Chipset

- Intel® 815EP chipset. (544 BGA)
 - AGP 4x/2x universal slot
 - Support 66/100/133MHz FSB
- Intel® ICH2 chipset. (241 BGA)
 - AC'97 Audio support
 - 2 full IDE channels, up to ATA100
 - Low pin count interface for SIO
 - 2 USB host controller/4USB ports

MainMemory

- Support four 168-pin DIMM sockets.
- Support a maximum memory size of 256MB or 512MB SDRAM.

Slots

- One CNR (Communication Network Riser).
- One AGP (Accelerated Graphics Port) 2x/4x slot
(One AGP Pro slot for 815EP Pro-R)
- Six PCI 2.2 32-bit Master PCI Bus slots. All PCI slots can be used as master.
- Support 3.3v/5v PCI bus Interface.

On-BoardIDE

- An IDE controller on the ICH2 chipset provides IDE HDD/CD-ROM with PIO, Bus Master and Ultra DMA 66/100 operation modes.
- Can connect up to four IDE devices.
 - ATA RAID 0.1 supported by Promise PDC20265R (815EP Pro-R only)

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 parallel port supports SPP/EPP/ECP mode
- 4 USB ports (Rear * 2 / Front * 2)

Note: One front USB port provides USB PC to PC Network Function (815EP Pro-R only).

- 1 VGA port

Audio

- ICH2 chip integrated
- Support 2 Channel Audio or 4 Channel Audio (for 815EP Pro-R)

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.

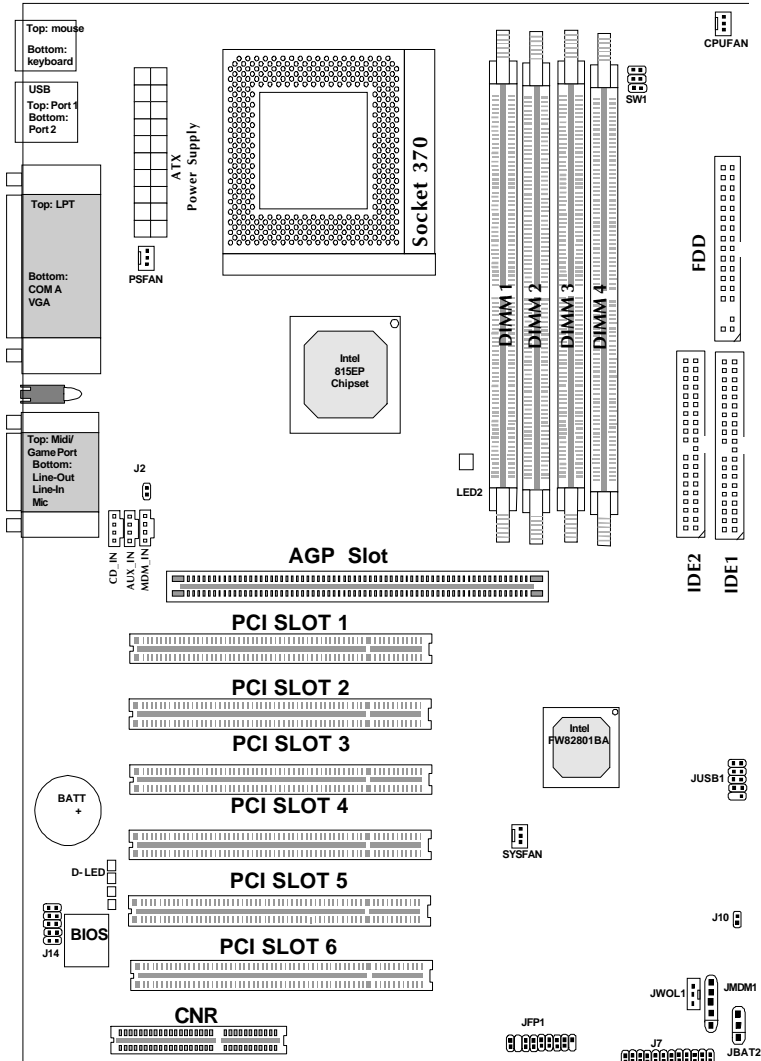
Dimension

- ATX Form Factor

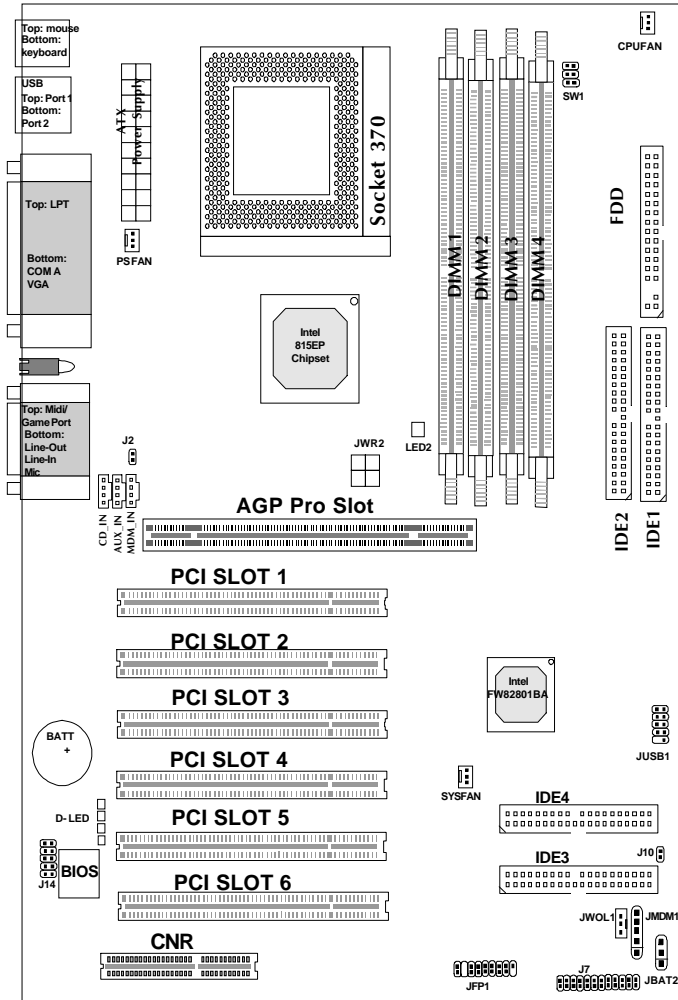
Mounting

- 6 mounting holes.

Mainboard Layout



815EP Pro (MS-6337 V3.0B) ATX Mainboard



815EP Pro-R (MS-6337 V3.0B) ATX Mainboard

