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## Motherboard Specification (**Confidential**)

Product Model : *Micro-ATX Motherboard (Fresno)*  
Title : *Functional Specification of Motherboard*  
Date : *May 8, 2001 (Version 0.94)*

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### 1. Form Factor

- Small uATX Form Factor
- 7.3"×9.3"×1.6T (4 Layers)

### 2. Main Core Chipset

- Intel 810(E) Chipset
  - Intel 82810(E) Memory Controller Hub (BGA-421p)
  - Intel 82801AA I/O Controller Hub (EBGA-241p)
- Super I/O: ITE8702 (PQFP-128p)
- Audio: AC97 CODEC-based subsystem
  - Crystal CS4299 (TQFP-48p)
- Flash BIOS: SST49CF002A 2MB FWH (PLCC-32p)
- Clock Generator
  - ICS9250-16 (SOP-56p)
- DC to DC converter
  - HIP6021 for PWM Controller (SOP-24p)

### 3. Processor

- 370-pin ZIF Socket (PGA-370s)
- Intel Pentium-III and Celeron Processor
- 100/133MHz FSB with an integrated 128K/256K L2 Cache

### 4. System Memory

- Built-in Two SDRAM Channels (2 DIMM Sockets)
- PC100/133 supported (just running in 100MHz)
- Expansion: Up to 512MBytes with two 256MB modules

### 5. BIOS

- Phoenix BIOS in 2MB Flash Memory
- PCI2.2, PnP1.0a, APM1.2, SMBIOS2.3, CDROM Boot 1.01, UUID, AGP2.0, ACPI 1.0b

### 6. Expansion Slots

- AGP, PCI, and AMR supported
  - Three PCI slots (PCI 2.2 specification compliant)
  - One AMR slot

### 7. Rear I/O Port

- Serial Port: One Dsub-9 Connectors for COM1
- Parallel Port: Dsub-25 Connector for LPT1
- VGA: Dsub-15 Connector for Monitor
- USB Port: Up to 2 USB Connection
  - Stack USB Connector for Two USB Ports and
  - One Headers for an USB located in Front-side
- PS/2: One Stack PS/2 Connector for Mouse & Keyboard
- Multimedia Port
  - Type-1: L\_IN+MIC+L\_OUT+Joystick (Standard)
  - Type-2: L\_IN+MIC+SPK

### 8. Header Connectors

- I/O Device
  - Storage device
    - Two E-IDE connector: 40pin Header (up to ATA66)
    - One FDD connector: 34pin Header
  - Audio Sound
    - CDROM sound: One 1\*3 Locking Header
    - Video sound: 1\*4 Locking Header (Option)
    - SPK\_OUT: 1\*3 Locking Header (Option)
    - Headphone: 1\*5 Header (Option)
    - SPDIF: 1\*4 Header (Option)
    - 2nd MIC: 1\*4 Header (Option)
    - 2nd CDROM Audio: 1\*3 Locking Header (Option)
  - Joystick / USB Header
    - 2\*10 Header for Joystick and One USB Port
  - Power Supply Connector
    - 20pin ATX Connector
- Indicator Connector: 2\*10 Header
  - Power LED: 1\*3 Connection (3-step mode)
  - HDD LED: 1\*2 Connection
  - Key Lock: 1\*2 Connection
  - Power, Reset & Sleep Button: Each 1\*2 Connection
  - Speaker: 1\*4 Connection
  - 1\*8 Header dual Foot-Print for HP
- Power Management-based Connector
  - Three FAN Connector: CPU, Power Supply, and System
    - FAN ON/OFF supported
  - One Chassis Intrusion: 1\*2 Locking Header (Option)
  - Modem Wake-up: 1\*3 Locking Header (Option)

### 9. Miscellaneous parts

- Battery: Coin Type (CR2032)
- Speaker: Piezo Type

## Motherboard Specification (**Confidential**)

Product Model : *Micro-ATX Motherboard (Fresno)*

Title : *Connector and Jumper Description on Motherboard*

Date : *May 8, 2001 (Version 0.94)*



