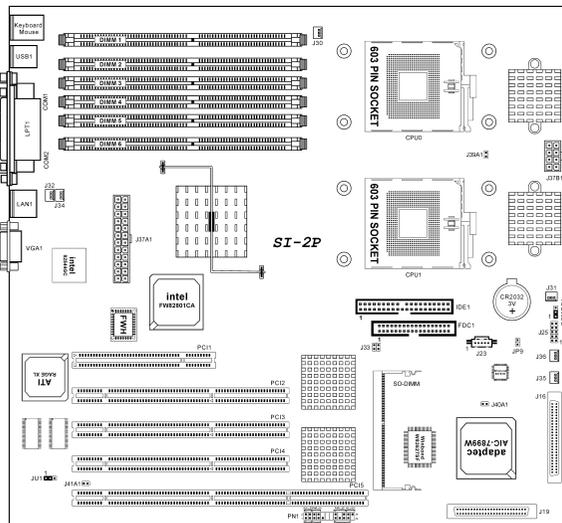


SI-2P

Brief Installation Guide



Features & Specifications

CPU

- Supports Dual Intel® Pentium™ 4 Xeon up to 2 GHz ~ 2.2 GHz processor

Chipset

- Intel® E7500 (Plumas) chipset supports 400 MHz Front Side Bus
- Supports PCI 2.2, Ultra DMA100 IDE protocol (ICH3)
- Supports PCI-X 66/100/133 MHz (P64H2)

Memory

- Six 184-pin DIMM sockets support Registered ECC DDR RAM module only
- Supports up to 12GB (DDR 200)

Graphics

- On board 4MB ATI Rage XL PCI VGA accelerator

SCSI

- Adaptec AIC 7899, Dual channel Ultra 160 controller on board
- Support Adaptec RAID card - 2005S (Raptor)

System BIOS

- Award Plug and Play BIOS supports APM, DMI, and ACPI
- Write-Protect Anti-Virus function by AWARD BIOS
- 4M-bit Flash ROM

I/O Slot

- One 32bit/33 MHz PCI slot
- One PCI-X 133MHz 64bit slot (Support hot plug)
- One PCI-X 100MHz 64bit slot (Support hot plug)
- Two PCI-X 100MHz 64bit slots (Not Support hot plug)
- Support InfiniBand Technology

Multi I/O Functions

- 1 floppy port

- 1 channel of bus master IDE Ports supporting up to two Ultra DMA100 devices
- 1 parallel port and 2 serial port
- PS/2 keyboard and PS/2 mouse connectors
- Support 2 USB ports
- Smart Card Reader connector

H/W Monitor IC

- Winbond W83791D
- Support Five Fan speed monitor (3 smart fan speed control)
- Support 10 voltage monitor
- Response ASF command (Get Even Data, Even Status)

LAN

- On board Intel 82544GC Gigabit Ethernet Controller
- 10/100/1000 Mb Ethernet
- With 100MHz, 64bit bus

Miscellaneous

- 24 pins and 8 pins EPS 12V power connector
- Extend ATX form factor (12" x 13")

Note: All brand names and trademarks are the property of their respective owners.

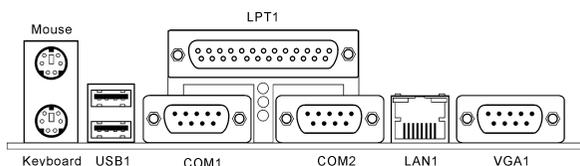
Connectors, Headers, and Jumper

Note: Always power off the computer and unplug the AC power cord before adding or removing any peripheral or component. Failing to do so may cause severe damage to your motherboard and/or peripherals. Plug in the AC power cord only after you have carefully checked everything.

Power Connectors:

- **J37A1:** 24 pins EPS 12V power connector
- **J37B1:** 8 Pins EPS 12V power connector
- **J23:** 5 pins EPS 12V power connector.

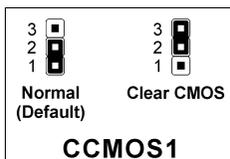
Back Panel:



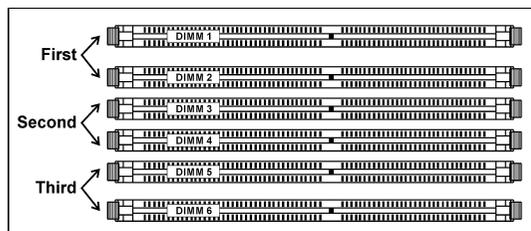
- **Mouse:** Connects to a PS/2 Mouse.
- **Keyboard:** Connects to a PS/2 Keyboard.
- **USB1:** Connects to USB devices.
- **LPT1:** Connects to printer or other devices that support this communication protocol.
- **COM1/COM2:** Connects to external modem, serial mouse or other devices that supports this communication protocol.
- **LAN1:** Connects to Local Area Network.
- **VGA1:** Connects to VGA signal input of monitor.

CCMOS1 Jumper:

- This header uses a jumper to clear the CMOS memory. Short pin 2 and pin 3 only when you want to clear the CMOS memory. The default setting is pin 1 and pin 2 shorted for normal operation.



DIMM Sockets:



- Populate the DDR DIMMs in-order (DIMM 1-2 → DIMM 3-4 → DIMM 5-6) and in-pair (of the same type and size) by starting with the 2 DIMMs furthest from the MCH in a “fill-farthest” approach.

FAN Connectors:

- **J30:** CPU0 Fan

- **J31:** CPU1 Fan
- **J32/J34:** Chassis Fan (J34 does not support fan speed monitoring)
- **J35:** System2 Fan
- **J36:** System1 Fan

FDC1 Connector:

- Connects to 3.5” floppy disk drive.

IDE1 Connector:

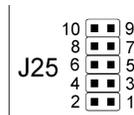
- Connects up to 2 IDE devices.

J16/J19 Connector:

- Connects to Ultra 160 SCSI channels.

J25 Header:

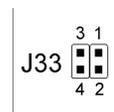
- Connects to Smart Card Reader.



Pin	Pin Assignment	Pin	Pin Assignment
1	VCC	2	GND
3	SCPWR	4	SCRST
5	NC	6	NC
7	SCIO	8	NC
9	SCCLK	10	SCPSNT

J33 Header:

- Short pin 2-4 for enabling Hot Plug Switch A.
- Short pin 1-3 for enabling Hot Plug Switch B.



JP9 Header:

- Connects to chassis opening sensor.

JU1 Header:

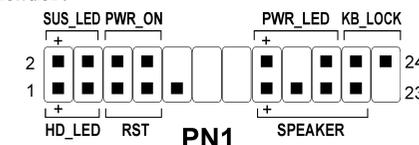
- Short pin 1-2 (default setting) to enable the on-board VGA operation through VGA1 connector.
- Short pin 2-3 for external VGA card operation.



PCI Slots:

- **PCI1:** PCI 33 MHz/32 bit
- **PCI2:** PCI-X 100 MHz/64 bit
- **PCI3:** PCI-X 133 MHz/64 bit
- **PCI4/PCI5:** PCI-X 100 MHz/64 bit

PN1 Header:



- **Pin 1-3 (HD_LED):** Connects to the HDD LED cable of chassis front panel.
- **Pin 5-7 (RST):** Connects to the Reset Switch cable of chassis front panel.
- **Pin 15-21 (SPEAKER):** Connects to the chassis system speaker cable.
- **Pin 2-4 (SUS_LED):** Connects to the Suspend LED cable (if there is one) of chassis front panel.
- **Pin 6-8 (PWR_ON):** Connects to the Power Switch cable of chassis front panel.
- **Pin 16-20 (PWR_LED):** Connects to the Power LED cable of the chassis front panel.
- **Pin 22-24 (KB_LOCK):** Connects to the Keylock cable (if there is one) of chassis front panel.

SO-DIMM Connector:

- Connects to optional Adaptec RAID card - 2005S (Raptor) for RAID function through J16/J19.

Temperature Sensor:

- **J39A1:** System3 temperature sensor connector
- **J40A1:** System2 temperature sensor connector
- **J41A1:** System1 temperature sensor connector

BIOS Setup

When you power the computer on, you will see the following message appear briefly at the bottom of the screen during POST:

PRESS DEL TO ENTER SETUP

If you want to configure the BIOS, you can press the **<Delete>** key immediately to enter the BIOS Setup Menu.

Note: Don't change the parameters inside the BIOS Setup Menu unless you are thoroughly aware of the BIOS settings.