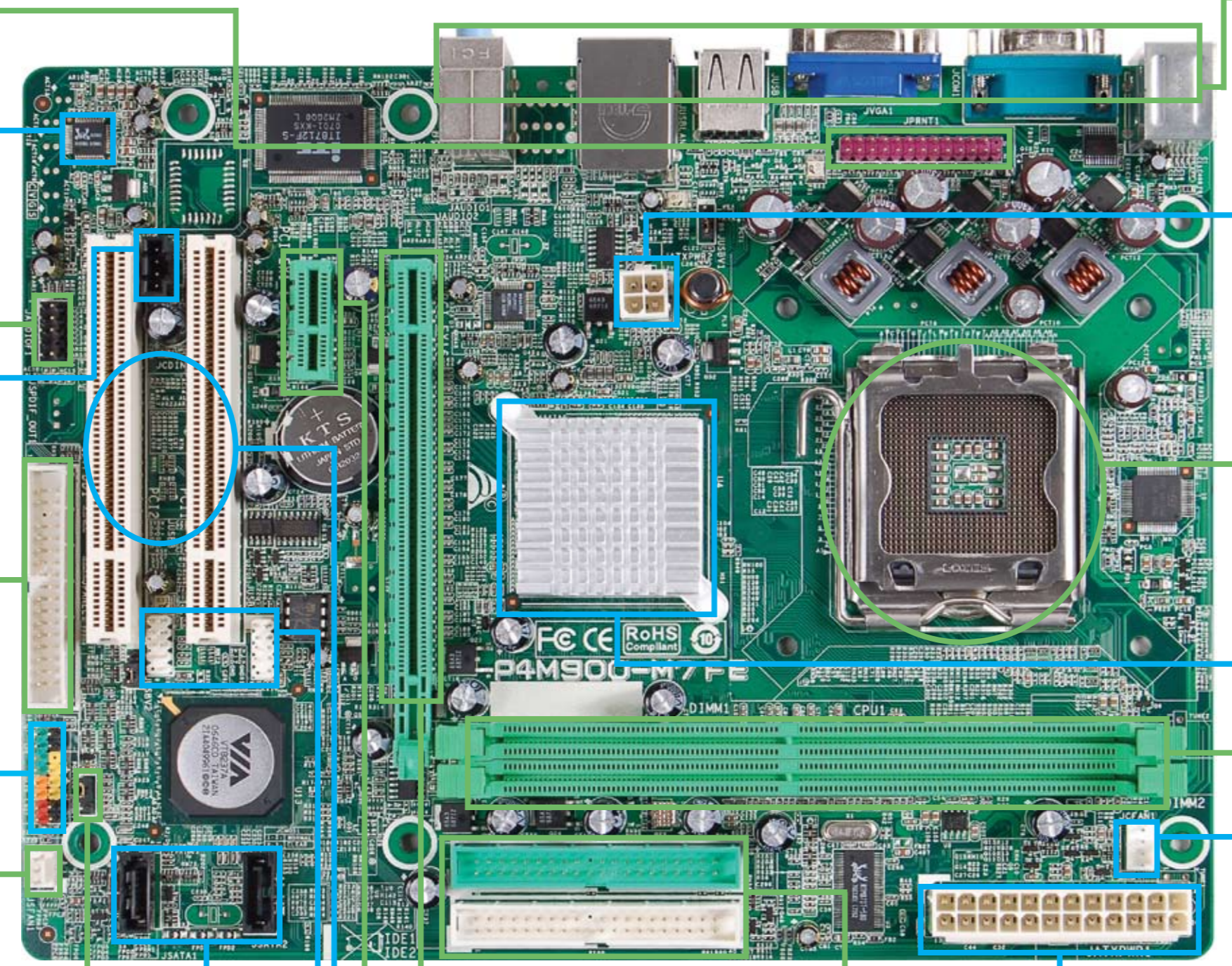
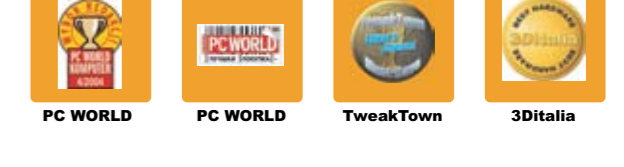
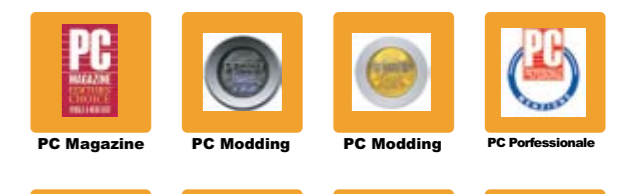
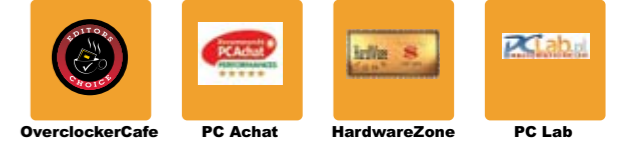
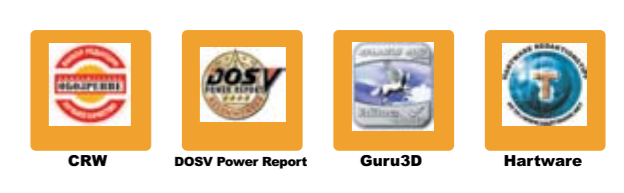
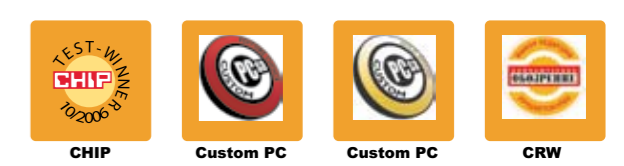
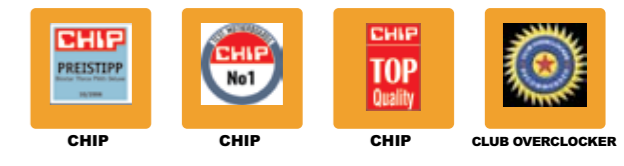
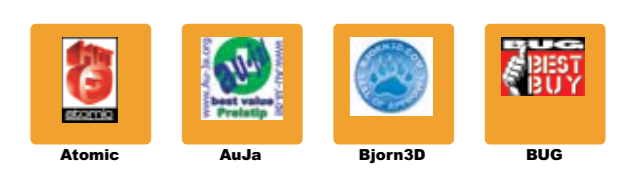
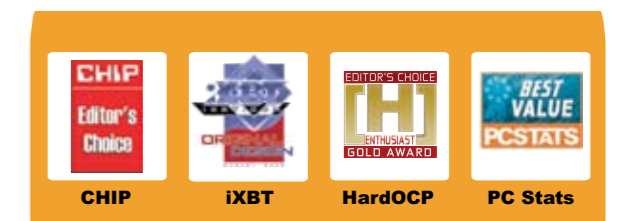


Stable · Durable · Performance P4M900-M7 FE *Better than ever*

The Motherboard
Trusted by Media



Printer Port Connector

*Druckeranschluss Anschluss
*Conector de para impressora
*Connecteur de Port d'imprimante
*Złącze Port drukarki
*Connettore Porta stampante
*プリンターポートコネクタ
*Conector Puerto de impresora
*مفتد طابعه
*Разъём Порт подключения принтера

5.1-Channels HD Audio

*Unterstützt High-Definition Audio / 5.1-Kanal-Audioausgabe
*Prise en charge de l'audio haute définition / Sortie audio à 5.1 voies
*Supporto audio High-Definition (HD) / Uscita audio 5.1 canali
*Soporte de sonido de Alta Definición / Salida de sonido de 5.1 canales
*Suporta a especificação High-Definition Audio / Saída de áudio de 5.1 canais
*Obsługa High-Definition Audio / 5.1 kanałowe wyjście audio
*Звуковая поддержка High-Definition / 5.1-канальный звуковой выход
*ハイデフィニションオーディオのサポート / 5.1 チャンネルオーディオアウト
*تدعم تقنية الصوت عالي التعريف / 5.1 قنوات لخرج الصوت

Front Audio Connector

*Front-Audioanschluss
*Connecteur Audio du panneau avant
*Connettore audio frontale
*Conector de sonido frontal
*Conector de áudio frontal
*Przednie złącze audio
*Входной звуковой разъём
*フロントオーディオコネクタ
*مفتد الصوت الأمامي

1	2
3	4
5	6
7	8
9	10

1 Mic Left in
2 Ground
3 Mic Right in
4 GPIO
5 Right line in
6 Jack Sense
7 Front Sense
8 Key
9 Left line in
10 Jack Sense

CD-IN Connector

*CD-IN-Anschluss
*Connecteur d'entrée CD
*Connettore CD-in
*Conector de entrada de CD
*Conector para entrada de CDs
*Złącze wejścia CD
*Разъём ввода для CD
*CD-인코ネク타
*مفتد CD

1	2
3	4

1 Left Channel Input
2 Ground
3 Ground
4 Right Channel Input

Floppy Disk Drive Connector

*Diskettenlaufwerkanschluss
*Connecteur de disquette
*Connettore floppy
*Conector disco flexible
*مفتد محرك أقراص مرنة

*Conector da unidade de disquetes
*Złącze napędu dyskietek
*Разъём HFMD
*Разъём флоппи-коネクта

Front Panel Connector

*Fronttafelanschluss
*Connecteur du panneau avant
*Connettore pannello frontale
*Conector de panel frontal
*Conector do painel frontal
*Złącze panela przedniego
*Разъём на лицевой панели
*フロントパネルコネクタ
*مفتد اللوحة الأمامية

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16

Speaker
HDD LED+
Reset
Power LED
On/Off

System Fan Header

*System-Lüfter-Sockel
*Embase de ventilateur système
*Collettore ventolina sistema
*Cabecera de ventilador de sistema
*Conector da ventolinha do sistema
*Złącze głowkowe wentylatora systemowego
*Контактирующее приспособление вентилятора системы
*システムファンヘッド
*وصلة مروحة وحدة المعالجة النظام

1	2	3
---	---	---

1 Ground
2 +12V
3 FAN RPM rate sense

SATA Connectors

*SATA-Anschluss
*Conector SATA
*Connettore SATA
*Złącze SATA
*Разъём SATA
*SATAコネクタ
*مفتد SATA

Clear CMOS Header

**CMOS löschen*-Sockel
*Embase d'effacement CMOS
*Collettore cancellazione CMOS
*Cabecera de borrado de CMOS
*Conector para limpeza do CMOS
*Złącze głowkowe kasowania CMOS
*Открытое контактирующее приспособление CMOS
*CMOSクリアヘッド
*وصلة مسح CMOS

1	2
3	4

Pin 1-2 Close: Normal Operation (default)
Pin 2-3 Close: Clear CMOS data

PCI-Express x1 Slot

*PCI Express x1-Steckplatz
*Fente PCI Express x1
*Alloggio PCI Express x1
*Ranura PCI express x1
*PCI Express x1插槽
*Ranura PCI Express x1
*Gniazdo PCI Express x1
*Cnot PCI Express x1
*PCI Express x1插槽

PCI Slots

*PCI-Steckplatz
*Fente PCI
*Alloggio PCI
*Ranura PCI
*Ranura PCI
*Gniazdo PCI
*Cnot PCI
*PCI插槽

USB 2.0 Connectors

*USB 2.0-Anschluss
*Conector USB 2.0
*Connettore USB 2.0
*Złącze USB 2.0
*Разъём USB 2.0
*USB 2.0-разъём
*USB 2.0コネクタ
*USB 2.0مفتد

Power Connector (24pin)

*Stromanschluss(24-polig)
*Connecteur d'alimentation (24 pins)
*Connettore alimentazione(24 pin)
*Conector de alimentación (24 pines)
*مفتد توصيل الطاقة(24دوس)

*Conector de alimentação (24 pines)
*Złącze zasilania (24 pinowe)
*Разъём питания (24 вывода)
*電源コネクタ(24ピン)

IDE Connectors

*IDE-Anschluss
*Connecteur IDE
*Connettore IDE
*Conector IDE
*Złącze IDE
*Разъём IDE
*IDEコネクタ
*IDEمفتد

PCI-Express x16 Slot

*PCI Express x16-Steckplatz
*Fente PCI Express x16
*Alloggio PCI Express x16
*Ranura PCI express x16
*PCI Express x16插槽
*Ranura PCI Express x16
*Gniazdo PCI Express x16
*Cnot PCI Express x16
*PCI Express x16插槽

Back Panel I/O Connectors

*Rückseiten-E/A
*E/S du panneau arrière
*I/O pannello posteriore
*Panel trasero de E/S
*مفتد دخل/خرج اللوحة الخلفية

*Entradas/Saídas no painel traseiro
*Back Panel I/O
*Задняя панель средств ввода-вывода
*背面パネルI/O

Power Connector (4pin)

*Stromanschluss(4-polig)
*Connecteur d'alimentation(4 broches)
*Connettore alimentazione(4 pin)
*Conector de alimentação(4 pines)
*Złącze zasilania (4 pinowe)
*Разъём питания (4 вывода)
*電源コネクタ(4ピン)
*مفتد توصيل الطاقة(4دوس)

2	1
3	4

1 +12V
2 +12V
3 Ground
4 Ground

LGA 775 for Intel Core2Duo/Pentium 4/Celeron D/Celeron 4xx Processor

*LGA 775
*Intel Core2Duo/Pentium 4/Pentium D/Celeron D/Celeron 4xx Prozessoren
*LGA 775
*Processors Intel Core2Duo/Pentium 4/Pentium D/Celeron D/Celeron 4xx
*LGA 775
*Processors Intel Core2Duo/Pentium 4/Pentium D/Celeron D/Celeron 4xx
*LGA 775
*Processador Intel Core2Duo/Pentium 4/Pentium D/Celeron D/Celeron 4xx
*LGA 775
*Processor Intel Core2Duo/ Pentium 4/Pentium D/Celeron D/Celeron 4xx
*LGA 775
*Процессор Intel Core2Duo/Pentium 4/Pentium D/Celeron D/Celeron 4xx
*LGA 775

NB Chipset : VIA P4M900

*NB Chipsatz: VIA P4M900
*NB Conjunto de chips: VIA P4M900
*Набор микросхем: VIA P4M900
*чипсет: VIA P4M900
*مجموعة الشرائح P4M900

DDR2 DIMM Slots

Each DIMM supports 256MB/512MB/1GB/2GB DDR2 533/667

*DDR2 DIMM-Steckplätze
*Jeder DIMM unterstützt 256MB/512MB/1GB/2GB DDR2 533/667
*Fentes DDR2 DIMM
*Chaque DIMM prend en charge des DDR2 533/667 de 256Mo/512Mo/1Go/2Go
*Alloggi DIMM DDR2
*Ciascun DIMM supporta DDR2 533/667 256MB/512MB/1GB/2GB
*Ranuras DIMM DDR2
*Cada DIMM admite DDR2 533/667 de 256MB/512MB/1GB/2GB
*Ranuras DIMM DDR2
*Cada módulo DIMM suporta uma memória DDR2 533/667 de 256MB/512MB/1GB/2GB
*Gniazda DDR2 DIMM
*Každé gniazdo DIMM obsluhuje moduly 256MB/512MB/1GB/2GB DDR2 533/667
*Slots DDR2 DIMM
*Каждый модуль DIMM поддерживает 256MB/512MB/1GB/2GB DDR2 533/667
*DDR2 DIMM插槽
*Každé gniazdo DIMM obsluhuje moduly 256MB/512MB/1GB/2GB DDR2 533/667
*各DIMMは 256MB/512MB/1GB/2GB DDR2 533/667をサポート
*مفتد DIMM
*مفتد DIMM تدعم ذاكرة من نوع DIMM 256/512/1/2GB DDR2 533/667 تدعم ال قحة ميجا بايت و 2 ميجا بايت /512 ميجا بايت 256 ميجا بايت

CPU Fan Header

*CPU-Lüfter-Sockel
*Embase de ventilateur UC
*Collettore ventolina CPU
*Cabecera de ventilador de CPU
*Conector da ventoinha da CPU
*Złącze głowkowe wentylatora procesora
*Контактирующее приспособление вентилятора центрального процессора
*CPUファンヘッド
*وصلة مروحة وحدة المعالجة المركزية

1	2	3	4
---	---	---	---

1 Ground
2 +12V
3 FAN RPM rate sense
4 Smart Fan Control

Step 1: CPU Installation



LGA 775 CPU Socket

Supports Intel Core2Duo/Pentium 4/
Pentium D/Celeron D/Celeron 4xx processor up to 3.8 GHz
(It is recommended to use processors with 95W power consumption.)
FSB: 533/800/1066 MHz

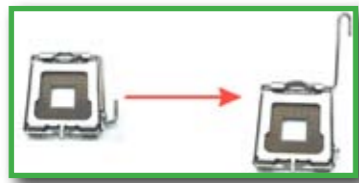
Step 1: Remove the protection cap from the CPU socket and keep the cap well.



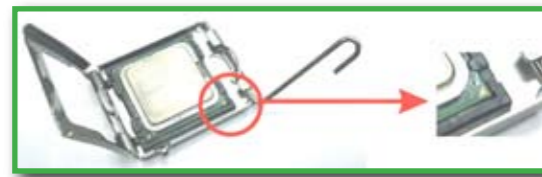
CAUTION

Our RMA policy only accepts the mainboard comes with the cap on the CPU socket, so please keep the protection cap well after installation. We will not be responsible for any damage to the pin-leg of the CPU socket resulting from misplacement/loss/incorrect removal of the protection cap.

Step 2: Pull the socket locking lever out from the socket and then raise the lever up to a 90-degree angle.



Step 3: Look for the triangular cut edge on socket and the golden dot on CPU should point forwards this triangular cut edge. The CPU will fit only in the correct orientation.



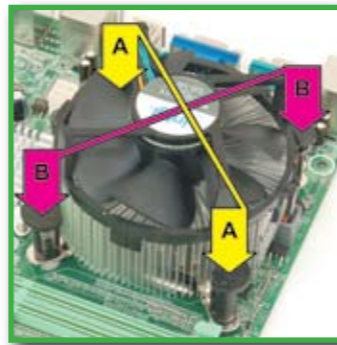
Step 4: Hold the CPU down firmly, and then lower the lever to locked the position.



Step 5: Place the CPU fan assembly on top of the installed CPU and make sure that the four fasteners match the motherboard holes. Orient the assembly and make the fan cable is closest to the CPU fan connector.



Step 6: Press down two fasteners at one time in a diagonal sequence to secure the CPU fan assembly in place. CPU installation completes.



Note:

Do not forget to connect the CPU fan connector. For further information, please refer to **Step 3: Power Connection**.

Package Checklist

- ▲ Installation Guide x 1
- ▲ Fully Setup Driver CD x 1 (full version manual files inside)
- ▲ Serial ATA Cable x 1 (optional)
- ▲ Serial ATA Power Cable x 1 (optional)
- ▲ HDD Cable x 1
- ▲ Rear I/O Panel x 1
- ▲ FDD Cable x 1 (optional)
- ▲ Parallel Printer Cable x 1 (optional)

Note: The package contents may differ by area or your motherboard version.

Serial NO. Definition

P4M90M7C-xx 70xxxxxxxx00001

PCB Version NO.

Serial NO. of Production

Manufacturer's Internal Part NO.

Q&A of Technical Support

Q: How to get a quick response for my request on technical support?

A: Please carry out a simple troubleshooting before sending "Technical Support Form" on our website.

Q: Is the motherboard dead? Do I need to return it to where I bought from or go through an RMA process?

A: After you had gone through the troubleshooting procedures, yet the problem still exists, or you find an evident damage on the motherboard. Please contact your reseller shop to get the RMA service.

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P4M900-M7 FE

Quick Installation Guide



Mainboard

For Intel Processor

50-RP4M90M7C-Q-B1

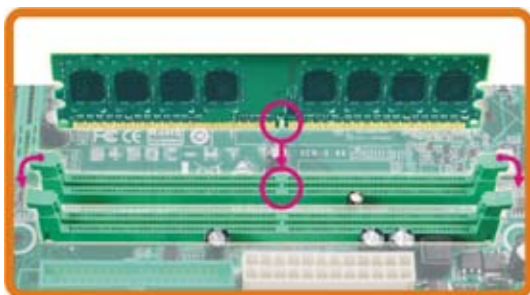
Step 2: Memory Installation



DDR2 DIMM Slot x2

Supports DDR2 533/667
Each DIMM supports 256MB / 512MB / 1GB / 2GB DDR2
Max Memory Capacity is 4GB

Step 1: Unlock a DIMM slot by pressing the retaining clips outward. Align a DIMM on the slot such that the notch on the DIMM matches the break on the Slot.



Step 2: Insert the DIMM vertically and firmly into the slot until the retaining chip snap back in place and the DIMM is properly seated.



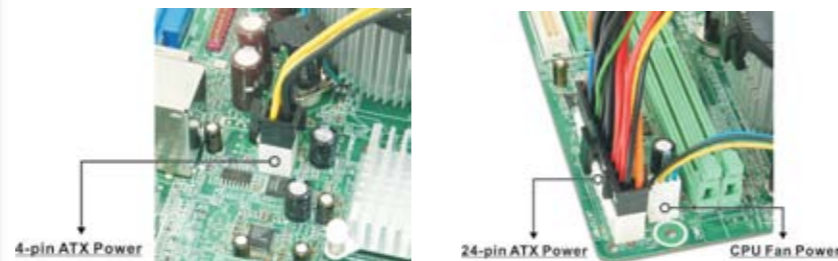
Step 3: Power Connection

CPU Fan Power (JCFAN1)

JCFAN1 supports 4-pin head connector. When connecting with wires onto connectors, please note that the black wire is Ground and should be connected to pin#1(Ground).

24-pin ATX Power (JATXPWR1)

JATXPWR1 is the main power supply connector located along the edge of the board next to the DIMM slots. Firmly plug the power supply cable into the connector and make sure it is secure.



4-pin ATX Power (JATXPWR2)

JATXPWR2, the 4-pin ATX 12V power connection, is used to provide power to the CPU. Align the pins to the connector and press firmly until seated.



Installation Complete

Follow the three steps to finish CPU, memory, and power installation, and the whole motherboard assembly should look like this picture.

Clear CMOS Header

The Occasion to Clear CMOS

1. Forgot the supervisor/user password preset in the BIOS menu.
2. Unable to boot up the system because the CPU clock was incorrectly set in the BIOS menu.
3. The CMOS data becomes corrupted.



Clear CMOS Header (CMOS1)

1 Pin 1-2 Close:
Normal Operation (default)

1 Pin 2-3 Close:
Clear CMOS data

Clear CMOS Procedure

1. Remove AC power line.
2. Set the jumper to "Pin 2-3 close".
3. Wait for five seconds.
4. Set the jumper to "Pin 1-2 close".
5. Power on the AC.
6. Reset your desired password or clear the CMOS data.

NOTE: How to Setup Jumpers

The illustration shows how to set up jumpers. When the jumper cap is placed on pins, the jumper is "close", if not, that means the jumper is "open".



Driver & Manual

After you installed your operating system, please insert the Fully Setup Driver CD into your optical drive and install the driver for better system performance. You will see following window after you insert the CD.



Click on **Driver** to start the process of driver installation.

The installation program will detect your system to find out the driver needed to be installed.



Click on **Install** and the program will begin to install the proper driver for your system.

When the driver installation completes, there will be a dialogue appears asking you to restart the system. Please click on **YES** to restart your computer.

For more information of the mainboard setup and BIOS setup, please refer to the full version manual in the setup CD.

In the Setup CD auto-run program, click on **Manual** and then click on **Mainboard User Manual** or **BIOS User Manual**.

