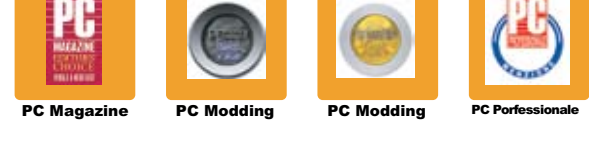
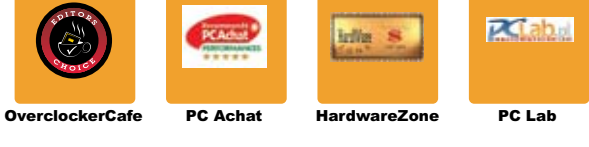
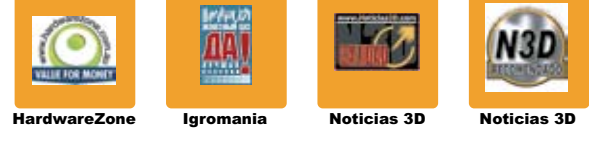
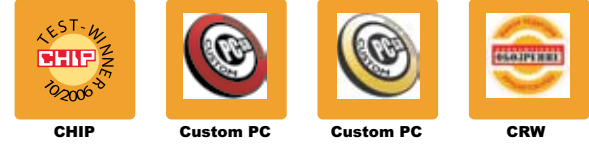


Stable · Durable · Performance A780G M2+SE

Better than ever

The Motherboard
Trusted by Media



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インコネクタ

CD-IN 接口

4	1
3	2
2	3
1	4

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

S/PDIF-OUT Connector

- *S/PDIF-Ausgangsanschluss
- *Connecteur de sortie S/PDIF
- *Connettore output SPDIF
- *Conector de salida S/PDIF
- *Conector de saída S/PDIF
- *Złącze wyjścia S/PDIF
- *Разъём вывода для S/PDIF
- *S/PDIFアウトコネクタ

S/PDIF 接口

3	1
2	2
1	3

1 +5V
2 SPDIF_OUT
3 Ground

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
- *مرفذ الصوت الأمامي

Front Audio 接口

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

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

Printer Port Connector

- *Druckeranschluss Anschluss
- *Connecteur de Port d'imprimante
- *Connettore Porta stampante
- *Conector de porta de impressora
- *Conector para impressora
- *Złącze Port drukarki
- *Порт принтера
- *مرفذ طابعة

Printer Port 接口

Serial Port Connector

- *Serieller Anschluss
- *Connecteur de Port série
- *Connettore Porta seriale
- *Conector de porta serie
- *Conector da Porta série
- *Złącze Port szeregowy
- *Порт последовательный
- *シリアルポートコネクタ
- *مرفذ تسلسلي

Serial Port 接口

Floppy Disk Drive Connector

- *Diskettenlaufwerkanschluss
- *Connecteur de disquette
- *Connettore floppy
- *Conector disco flexible
- *Conector da unidade de disquetes
- *Złącze napędu dyskietek
- *Разъём HГМД
- *フロッピーコネクタ
- *مرفذ محرك أقراص مرنة

Floppy Disk Drive 接口

System Fan Header

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

System Fan Header 接口

3	1
2	2
1	3

1 Ground
2 +12V
3 FAN RPM rate sense

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
- *مرفذ اللوحة الأمامية

Front Panel 接口

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

Speaker
HDD LED
Reset
Power LED
On/Off

SATA Connectors

- *SATA-Anschluss
- *Conector SATA
- *Connettore SATA
- *Conector SATA
- *Conector SATA
- *Złącze SATA
- *SATAコネクタ
- *SATAコネクタ
- *مرفذ SATA

SATA 接口

USB 2.0 Connectors

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

USB 2.0 接口

PCI-Express Gen2 x16 Slot

- *PCI Express Gen2 x16-Steckplatz
- *Fente PCI Express Gen2 x16
- *Alloggio PCI Express Gen2 x16
- *Ranura PCI express Gen2 x16
- *PCI Express Gen2 x16插槽
- *Ranhura PCI Express Gen2 x16
- *Gniazdo PCI Express Gen2 x16
- *Cnot PCI Express Gen2 x16
- *Ranura PCI express Gen2 x16
- *PCI Express Gen2 x16插槽
- *قناة PCI Express Gen2 x16

PCI-Express Gen2 x16 Slot 接口

PCI Slots

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

PCI Slots 接口

Clear CMOS Header

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

Clear CMOS Header 接口

1	2
3	4

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

PCI-Express Gen2 x1 Slot

- *PCI Express Gen2 x1-Steckplatz
- *Fente PCI Express Gen2 x1
- *Alloggio PCI Express Gen2 x1
- *Ranura PCI express Gen2 x1
- *PCI Express Gen2 x1插槽
- *Ranhura PCI Express Gen2 x1
- *Gniazdo PCI Express Gen2 x1
- *Cnot PCI Express Gen2 x1
- *Ranura PCI express Gen2 x1
- *PCI Express Gen2 x1插槽
- *قناة PCI Express Gen2 x1

PCI-Express Gen2 x1 Slot 接口

Power Connector (24pin)

- *Stromanschluss(24-polig)
- *Connecteur d'alimentation (24 broches)
- *Connettore alimentazione(24 pin)
- *Conector de alimentación (24 patillas)
- *Conector de alimentação (24 pinos)
- *Złącze zasilania (24 pinowe)
- *Разъём питания (24 вывода)
- *電源コネクタ(24ピン)
- *مرفذ توصيل الطاقة(24 دبوس)

Power Connector (24pin) 接口

IDE Connector

- *IDE-Anschluss
- *Conector IDE
- *Connettore IDE
- *Conector IDE
- *Conector IDE
- *Złącze IDE
- *IDEコネクタ
- *IDEコネクタ
- *مرفذ IDE

IDE Connector 接口

Back Panel I/O Connectors

- *Rückseiten-E/A
- *E/S du panneau arrière
- *I/O pannello posteriore
- *Panel trasero de E/S
- *مرفذ دخال/خرج اللوحة الخلفية
- *Entradas/Saídas no painel traseiro
- *Back Panel I/O
- *Задняя панель средств ввода-вывода
- *背面I/O

Back Panel I/O Connectors 接口

Power Connector (4pin)

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

Power Connector (4pin) 接口

2	1
3	4

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

Socket AM2+/AM2 for AMD Sempron / Athlon 64 / Athlon 64 FX / Athlon 64 X2 / Phenom Processor (95W CPU is recommended) FSB: Up to 5.2GT/s Bandwidth

- *Socket AM2+/AM2
- *AMD Athlon 64/Athlon 64 FX/Athlon 64 X2/Sempron/Phenom Prozessoren
- *Socket AM2+/AM2
- *Processeurs AMD Athlon 64/Athlon 64 FX/Athlon 64 X2/Sempron/Phenom
- *Socket AM2+/AM2
- *Processors AMD Athlon 64/Athlon 64 FX/Athlon 64 X2/Sempron/Phenom
- *Conector AM2+/AM2
- *Processadores AMD Athlon 64/Athlon 64 FX/Athlon 64 X2/Sempron/Phenom
- *Socket AM2+/AM2
- *Processadores AMD Athlon 64/Athlon 64 FX/Athlon 64 X2/Sempron/Phenom
- *Socket AM2+/AM2
- *AMD Athlon 64/Athlon 64 FX/Athlon 64 X2/Sempron/Phenom Processor
- *Гнездо AM2+/AM2
- *Процессоры AMD Athlon 64/Athlon 64 FX/Athlon 64 X2/Sempron/Phenom
- *معالجات AMD Athlon 64/Athlon 64 FX/Athlon 64 X2/Sempron/Phenom

Socket AM2+/AM2 for AMD Sempron / Athlon 64 / Athlon 64 FX / Athlon 64 X2 / Phenom Processor (95W CPU is recommended) FSB: Up to 5.2GT/s Bandwidth 接口

NB Chipset : AMD 780G

- *NB Chipset: AMD 780G
- *NB Conjunto de chips: AMD 780G
- *Набор микросхем: AMD 780G
- *چیپ سٹ: AMD 780G
- *مجموعة الشرائح: AMD 780G

NB Chipset : AMD 780G 接口

DDR2 DIMM Slots : Each DIMM supports 256MB/512MB/1GB/2GB/4GB DDR2 533/667/800 & 1066(by AM2+ CPU)

- *DDR2 DIMM-Steckplätze
- *Jeder DIMM unterstützt 256MB/512MB/1GB/2GB/4GB DDR2 533/667/800/1066
- *Fentes DDR2 DIMM
- *Chaque DIMM prend en charge des DDR2 533/667/800/1066 de 256Mo/512Mo/1Go/2Go/4Go
- *Alloggi DIMM DDR2
- *Ciascun DIMM supporta DDR2 533/667/800/1066 256MB/512MB/1GB/2GB/4GB
- *Ranuras DIMM DDR2
- *Cada DIMM admite DDR2 533/667/800/1066 de 256MB/512MB/1GB/2GB/4GB
- *Ranhuras DIMM DDR2
- *Cada módulo DIMM suporta uma memória DDR2 533/667/800/1066 de 256MB/512MB/1GB/2GB/4GB
- *Gniazda DDR2 DIMM
- *Każde gniazdo DIMM obsługuje moduły 256MB/512MB/1GB/2GB/4GB DDR2 533/667/800/1066
- *Слоты DDR2 DIMM
- *Каждый модуль DIMM поддерживает 256MB/512MB/1GB/2GB/4GB DDR2 533/667/800/1066
- *DDR2 DIMMスロット
- *各DIMMは 256MB/512MB/1GB/2GB/4GB DDR2 533/667/800/1066をサポート
- *قناة DDR2 DIMM تدعم الة 256 ميبايت / 512 ميبايت / 1 جيبايت / 2 جيبايت / 4 جيبايت DDR2 533/667/800/1066

DDR2 DIMM Slots : Each DIMM supports 256MB/512MB/1GB/2GB/4GB DDR2 533/667/800 & 1066(by AM2+ CPU) 接口

CPU Fan Header

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

CPU Fan Header 接口

4	1
3	2
2	3
1	4

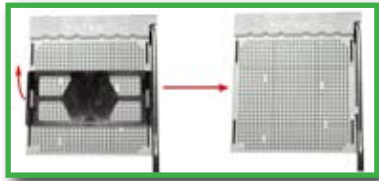
1 Ground
2 +12V
3 FAN RPM rate sense
4 Smart Fan Control

Step 1:CPU Installation



AM2+/AM2 CPU Socket
Supports AMD Sempron / Athlon 64 / Athlon 64 FX / Athlon 64 X2 / Phenom (It is recommended to use 95W CPU)
FSB: Supports up to 5.2GT/s Bandwidth

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.

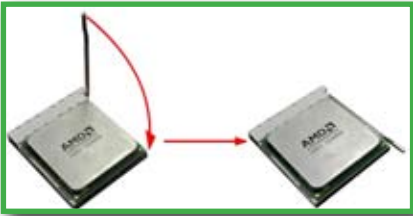
Step 2: Pull the socket locking lever out from the socket and then raise the lever up to a 90-degree angle.



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 heatsink and fan assembly onto the retention frame. Match the heatsink clip with the socket mounting-lug. Hook the spring clip to the mounting-lug.



Step 6: On the other side, push the retention clip straight down to lock into the plastic lug on the retention frame, and then press down the locker until it stops.



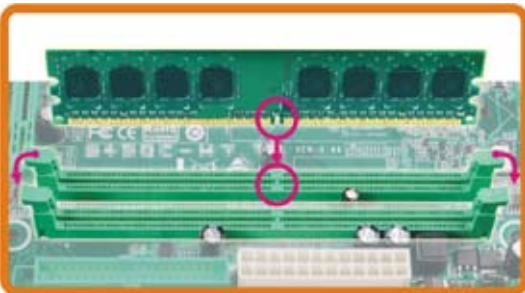
Note:
Do not forget to connect the CPU fan connector. For further information, please refer to **Step 3:Power Connection**.

Step 2:Memory Installation



DDR2 DIMM Slot x2
Supports DDR2 533/667/800
Supports DDR2 1066(by AM2+ CPU)
Each DIMM supports 256MB / 512MB / 1GB / 2GB / 4GB DDR2
Max Memory Capacity is 8GB

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.



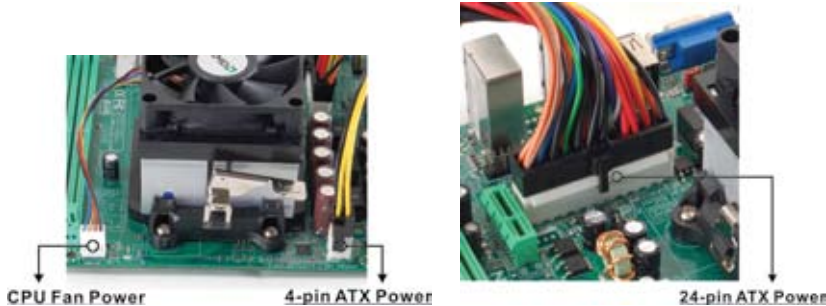
Step 2: Insert the DIMM vertically and firmly into the slot until the retaining chip snap back in place and the DIMM is properly seated.



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 CPU socket. 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 (JCMOS1)

- 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".



Pin Opened



Pin Closed



Pin 1-2 Closed

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**.



Package Checklist

- ▲ Installation Guide x 1
- ▲ Fully Setup Driver CD x 1 (full version manual files inside)
- ▲ Serial ATA Cable x 1
- ▲ 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 x1 (optional)

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

Serial NO. Definition

A78GBM2S-xx 60xxxxxxxx00001

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.

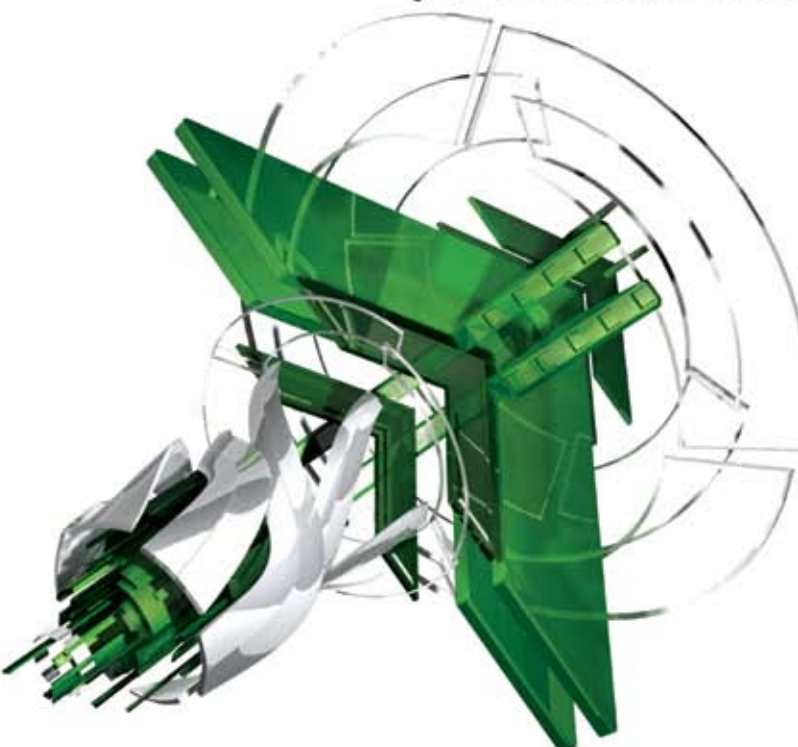
Q: Is the motherboard dead? Do I need to return it to where I bought from or go through an RMA process?

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.

Copyright and Warranty Notice

The information in this document is subject to change without notice and does not represent a commitment on part of the vendor, who assumes no liability or responsibility for any errors that may appear in this manual. No warranty or representation, either expressed or implied, is made with respect to the quality, accuracy or fitness for any particular part of this document. In no event shall the manufacturer be liable for direct, indirect, special, incidental or consequential damages arising from any defect or error in this manual or product. Product names appearing in this manual are for identification purpose only and trademarks and product names or brand names appearing in this document are the property of their respective owners. This document contains materials protected under International Copyright Laws. All rights reserved. No part of this manual may be reproduced, transmitted or transcribed without the expressed written permission of the manufacturer and authors of this manual. If you do not properly set the motherboard settings, causing the motherboard to malfunction or fail, we cannot guarantee any responsibility.

A780G M2+ SE
Quick Installation Guide



Mainboard
For AMD Processor