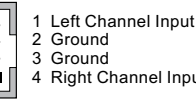


Stable · Durable · Performance A690G M2 + Better than ever

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-INコネクタ
- *CD-IN منفذ



4	1
2	2
3	3
1	4

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

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 разъем
- *フロントオーディオコネクタ
- *منفذ 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

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
- *ハイファイニションオーディオサポート / 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

Serial Port Connector

- *Serieller Anschluss
- *Connecteur de Port série
- *Connettore Porta serie
- *Conector da Porta série
- *Złącze Port szeregowy
- *Разъём Последовательный порт
- *シリアルポートコネクタ
- *منفذ تسلسلي

Printer Port Connector

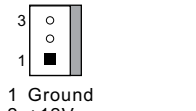
- *Druckeranschluss Anschluss
- *Connecteur de Port d'imprimante
- *Connettore Porta stampante
- *Conector para impressora
- *Złącze Port drukarki
- *Порт принтера
- *Разъём Порт подключения принтера

Floppy Disk Drive Connector

- *Diskettenlaufwerkanschluss
- *Connecteur de disquette
- *Connettore floppy
- *Conector de disquete
- *Złącze napędu dyskiety
- *Разъём HГМД
- *Разъём дискета
- *منفذ محرك أقراص مرنة

System Fan Header

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

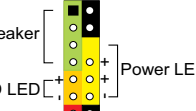


3	1
2	2
1	3

1 Ground
2 +12V
3 FAN RPM rate sense

Front Panel Connector

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



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
- *Connecteur SATA
- *Connettore SATA
- *Conector SATA
- *Złącze SATA
- *Разъём SATA
- *SATAコネクタ
- *منفذ SATA

PCI Slots

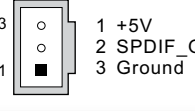
- *PCI-Steckplatz
- *Fente PCI
- *Alloggio PCI
- *Ranura PCI
- *Ranhura PCI
- *Gniazdo PCI
- *Cnot PCI
- *PCIスロット
- *منفذ PCI

USB 2.0 Connectors

- *USB 2.0-Anschluss
- *Connecteur USB 2.0
- *Connettore USB 2.0
- *Conector USB 2.0
- *Złącze USB 2.0
- *Разъём USB 2.0
- *USB 2.0コネクタ
- *منفذ USB 2.0

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
- *منفذ خرج S/PDIF



3	1
2	2
1	3

1 +5V
2 SPDIF_OUT
3 Ground

PCI-Express x1 Slot

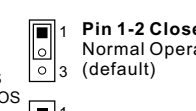
- *PCI Express x1-Steckplatz
- *Fente PCI Express x1
- *Alloggio PCI Express x1
- *Ranura PCI express x1
- *Ranhura PCI Express x1
- *Gniazdo PCI Express x1
- *Cnot PCI Express x1
- *PCI Express x1スロット
- *منفذ PCI Express x1

PCI-Express x16 Slot

- *PCI Express x16-Steckplatz
- *Fente PCI Express x16
- *Alloggio PCI Express x16
- *Ranura PCI express x16
- *Ranhura PCI Express x16
- *Gniazdo PCI Express x16
- *Cnot PCI Express x16
- *PCI Express x16スロット
- *منفذ PCI Express x16

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クリアヘッダ
- *وصلة مسح CMOS



1	2
3	3

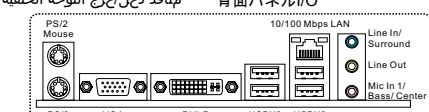
Pin 1-2 Close: Normal Operation (default)
Pin 2-3 Close: Clear CMOS data

IDE Connector

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

Back Panel I/O Connectors

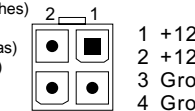
- *Rückseiten-E/A
- *E/S du panneau arrière
- *I/O pannello posteriore
- *Panel trasero de E/S
- *منفذ ديل الخرج اللوحة الخلفية
- *Entradas/Saídas no painel traseiro
- *Back Panel I/O
- *Задняя панель средств ввода-вывода
- *背面パネルI/O



PS/2 Mouse
PS/2 Keyboard
VGA
DVI-D
USB2
USB2
10/100 Mbps LAN
Line In
Surround
Line Out
Mic In / Bass Center

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)
- *منفذ توصيل الطاقة(4دبوس)



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 Processor FSB: Up to 1GHz Bandwidth

- *Socket AM2+/AM2
- *AMD Athlon 64/Athlon 64 FX/Athlon 64 x2/Sempron Prozessoren
- *Socket AM2+/AM2
- *Processeurs AMD Athlon 64/Athlon 64 FX/Athlon 64 x2/Sempron
- *Socket AM2+/AM2
- *Processori AMD Athlon 64/Athlon 64 FX/Athlon 64 x2/Sempron
- *Conector AM2+/AM2
- *Processadores AMD Athlon 64/Athlon 64 FX/Athlon 64 x2/Sempron
- *Socket AM2+/AM2
- *Processadores AMD Athlon 64/Athlon 64 FX/Athlon 64 x2/Sempron
- *Socket AM2+/AM2
- *AMD Athlon 64/Athlon 64 FX/Athlon 64 x2/Sempron Processor
- *Гнездо AM2+/AM2
- *Процессоры AMD Athlon 64/Athlon 64 FX/Athlon 64 x2/Sempron
- *منفذ AMD Athlon 64/Athlon 64 FX/Athlon 64 x2/Sempron

NB Chipset : AMD 690G

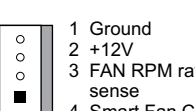
- *NB Chipset: AMD 690G
- *NB Conjunto de chips: AMD 690G
- *Набор микросхем: AMD 690G
- *چیپسٹ: AMD 690G
- *مجموعة الشرائح: AMD 690G

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

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

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
- *системный вентилятор процессора
- *Контактирующее приспособление вентилятора центрального процессора
- *CPUファンヘッダ
- *وصلة مروحة وحدة المعالجة المركزية



4	1
2	2
3	3
1	4

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

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)
- *منفذ توصيل الطاقة(24دبوس)

The Motherboard Trusted by Media

www.tomshardware.com
RECOMMENDED BUY
NOVEMBER 2006
www.anandtech.com
REVIEWED



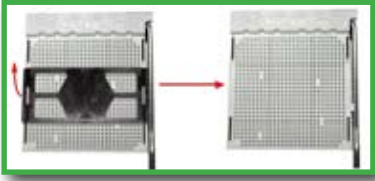
CHIP Editor's Choice
iXBT
HardOCP
PC Stats
Atomic
AuJa
Bjorn3D
BUG
CHIP PRESTIGE
CHIP No1
CHIP TOP Quality
CLUB OVERCLOCKER
CHIP TEST-WINNER 2006
Custom PC
Custom PC
CRW
CRW
DOSV Power Report
Guru3D
Hardware
HardwareZone
Igormania
Noticias 3D
Noticias 3D
OverclockerCafe
PC Achat
HardwareZone
PC Lab
PC Magazine
PC Modding
PC Modding
PC Professionale
PC Power Play
PC WORLD
PC WORLD
PC WORLD
PC WORLD
PC WORLD
TweakTown
3DItalia

Step 1:CPU Installation



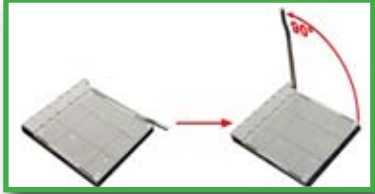
AM2+/AM2 CPU Socket
Supports AMD Sempron / Athlon 64 / Athlon 64 FX / Athlon 64 X2 processor
FSB: Supports up to 1GHz Bandwidth

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.

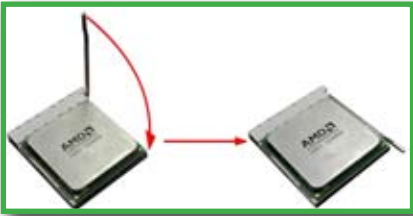
Step 2: Pull the socket locking lever out from the socket and then raise the lever up to a 90-degree angle.



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**.

Package Checklist

▲ Installation Guide x 1	▲ HDD Cable x 1
▲ Fully Setup Driver CD x 1 (full version manual files inside)	▲ Rear I/O Panel x 1
▲ Serial ATA Cable x 1	▲ FDD Cable x 1 (optional)
▲ Serial ATA Power Cable x 1 (optional)	▲ Parallel Printer Cable x1 (optional)
▲ DVI to HDMI Adapter x1 (optional)	

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

Serial NO. Definition

A690GM2C-xx 60xxxxxxx00001

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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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.



Mainboard
For AMD Processor

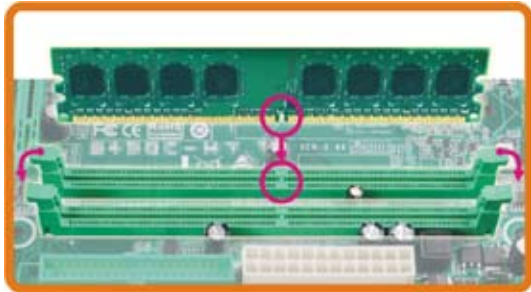
50-RA690GM2C-Q-B3

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 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.



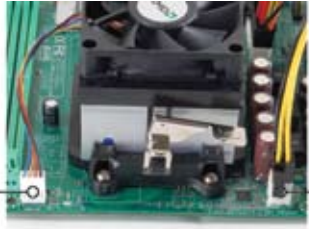
Step 3:Power Connection

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 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 looks 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)

Pin 1-2 Close: Normal Operation (default)

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

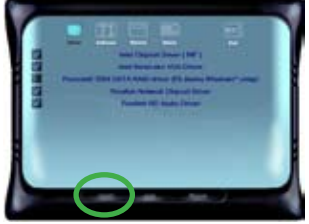
After you installed your operating system, please insert the Fully Setup Driver CD into your optical drive and install the driver for better system performance. You will see following window after you insert the CD.



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**.

