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This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) this device may not cause harmful interference, and
(2) this device must accept any interference received, including interference that may cause undesired operation.

CALIFORNIA, USA ONLY

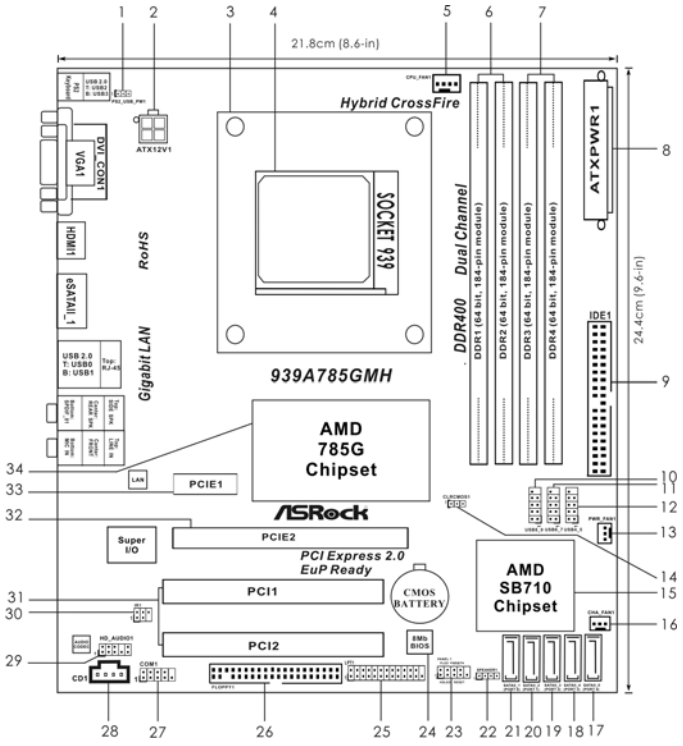
The Lithium battery adopted on this motherboard contains Perchlorate, a toxic substance controlled in Perchlorate Best Management Practices (BMP) regulations passed by the California Legislature. When you discard the Lithium battery in California, USA, please follow the related regulations in advance.
"Perchlorate Material-special handling may apply, see www.dtsc.ca.gov/hazardouswaste/perchlorate"

ASRock Website: http://www.asrock.com

Published August 2011

English

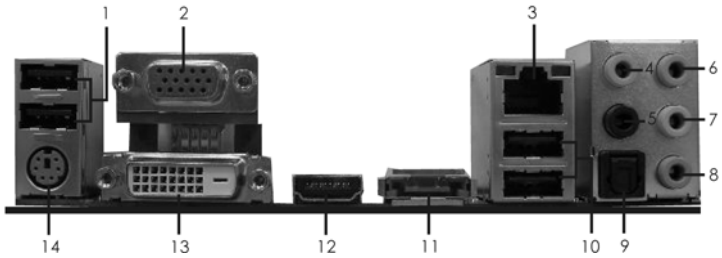
Motherboard Layout



1	PS2_USB_PW1 Jumper
2	ATX 12V Power Connector (ATX12V1)
3	CPU Heatsink Retention Module
4	939-Pin CPU Socket
5	CPU Fan Connector (CPU_FAN1)
6	2 x 184-pin DDR DIMM Slots (Dual Channel A: DDR1, DDR2; Blue)
7	2 x 184-pin DDR DIMM Slots (Dual Channel B: DDR3, DDR4; Black)
8	ATX Power Connector (ATXPWR1)
9	Primary IDE Connector (IDE1, Blue)
10	USB 2.0 Header (USB8_9, Blue)
11	USB 2.0 Header (USB6_7, Blue)
12	USB 2.0 Header (USB4_5, Blue)
13	Power Fan Connector (PWR_FAN1)
14	Clear CMOS Jumper (CLRCMOS1)
15	Southbridge Controller
16	Chassis Fan Connector (CHA_FAN1)
17	Fifth SATAII Connector (SATAII_5 (PORT 4))
18	Fourth SATAII Connector (SATAII_4 (PORT 3))
19	Third SATAII Connector (SATAII_3 (PORT 2))
20	Secondary SATAII Connector (SATAII_2 (PORT 1))
21	Primary SATAII Connector (SATAII_1 (PORT 0))
22	Chassis Speaker Header (SPEAKER 1, White)
23	System Panel Header (PANEL1, White)
24	SPI Flash Memory (8Mb)
25	Print Port Header (LPT1, White)
26	Floppy Connector (FLOPPY1)
27	Serial Port Connector (COM1)
28	Internal Audio Connector: CD1 (Black)
29	Front Panel Audio Header (HD_AUDIO1, White)
30	Infrared Module Header (IR1)
31	Northbridge Controller
32	PCI Express 2.0 x16 Slot (PCIE2; Blue)
33	PCI Express 2.0 x1 Slot (PCIE1; White)
34	Northbridge Controller

English

I/O Panel

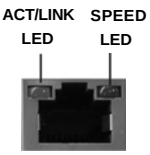


1	USB 2.0 Ports (USB23)	8	Microphone (Pink)
2	D-Sub Port	9	Optical SPDIF Out Port
* 3	LAN RJ-45 Port	10	USB 2.0 Ports (USB01)
4	Central / Bass (Orange)	11	eSATA2 Port
5	Rear Speaker (Black)	*** 12	HDMI Port
6	Line In (Light Blue)	13	DVI-D Port
** 7	Front Speaker (Lime)	14	PS/2 Keyboard Port (Purple)

* There are two LED next to the LAN port. Please refer to the table below for the LAN port LED indications.

LAN Port LED Indications

Activity/Link LED		SPEED LED	
Status	Description	Status	Description
Off	No Link	Off	10Mbps connection
Blinking	Data Activity	Orange	100Mbps connection
On	Link	Green	1Gbps connection



LAN Port

** If you use 2-channel speaker, please connect the speaker's plug into "Front Speaker Jack". See the table below for connection details in accordance with the type of speaker you use.

TABLE for Audio Output Connection

Audio Output Channels	Front Speaker (No. 7)	Rear Speaker (No. 5)	Central / Bass (No. 4)	Line In (No. 6)
2	V	--	--	--
4	V	V	--	--
6	V	V	V	--
8	V	V	V	V

*** To support AC3 audio format with HDMI Audio under Vista™, please install the XP HDMI audio driver.
The driver is located under the path: **..\Drivers\NB Audio\REALTEK\XP64_XP(R1.68)**
And note for LPCM support up to stereo 2 channels only.

English

1. Introduction

Thank you for purchasing ASRock ***939A785GMH*** motherboard, a reliable motherboard produced under ASRock's consistently stringent quality control. It delivers excellent performance with robust design conforming to ASRock's commitment to quality and endurance.

In this manual, chapter 1 and 2 contain introduction of the motherboard and step-by-step guide to the hardware installation. Chapter 3 and 4 contain the configuration guide to BIOS setup and information of the Support CD.

Because the motherboard specifications and the BIOS software might be updated, the content of this manual will be subject to change without notice. In case any modifications of this manual occur, the updated version will be available on ASRock website without further notice. You may find the latest VGA cards and CPU support lists on ASRock website as well. ASRock website http://www.asrock.com
If you require technical support related to this motherboard, please visit our website for specific information about the model you are using.
www.asrock.com/support/index.asp

1.1 Package Contents

ASRock ***939A785GMH*** Motherboard
(Micro ATX Form Factor: 9.6-in x 8.6-in, 24.4 cm x 21.8 cm)
ASRock ***939A785GMH*** Quick Installation Guide
ASRock ***939A785GMH*** Support CD
2 x Serial ATA (SATA) Data Cables (Optional)
1 x I/O Panel Shield

English

1.2 Specifications

Platform	- Micro ATX Form Factor: 9.6-in x 8.6-in, 24.4 cm x 21.8 cm - Solid Capacitor for CPU power
CPU	- Socket 939 for AMD Athlon™ 64FX / 64X2 / 64 processors - Supports AMD's Cool 'n' Quiet™ Technology - FSB 1000 MHz (2.0 GT/s) - Supports Untied Overclocking Technology (see **CAUTION 1**) - Supports Hyper-Transport Technology
Chipset	- Northbridge: AMD 785G - Southbridge: AMD SB710
Memory	- Dual Channel DDR Memory Technology (see **CAUTION 2**) - 4 x DDR DIMM slots - Support DDR 400/333/266 non-ECC, un-buffered memory - Max. capacity of system memory: 4GB (see **CAUTION 3**)
Expansion Slot	- 1 x PCI Express 2.0 x16 slot (blue @ x16 mode) - 1 x PCI Express 2.0 x1 slot - 2 x PCI slots - Supports Hybrid CrossFireX™
Graphics	- Integrated AMD Radeon HD 4200 graphics - DX10.1 class iGPU, Shader Model 4.1 - Max. shared memory 512MB (see **CAUTION 4**) - Three VGA Output options: D-Sub, DVI-D and HDMI - Supports HDMI Technology with max. resolution up to 1920x1200 (1080P) - Supports Dual-link DVI with max. resolution up to 2560x1600 @ 75Hz - Supports D-Sub with max. resolution up to 2048x1536 @ 60Hz - Supports HDCP function with DVI and HDMI ports - Supports Full HD 1080p Blu-ray (BD) / HD-DVD playback with DVI and HDMI ports
Audio	- 7.1 CH HD Audio (Realtek ALC888 Audio Codec)
LAN	- PCIE x1 Gigabit LAN 10/100/1000 Mb/s - Realtek RTL8111DL - Supports Wake-On-LAN - Supports PXE

Rear Panel I/O	I/O Panel - 1 x PS/2 Keyboard Port - 1 x D-Sub Port - 1 x DVI-D Port - 1 x HDMI Port - 1 x Optical SPDIF Out Port - 4 x Ready-to-Use USB 2.0 Ports - 1 x eSATA2 Port - 1 x RJ-45 LAN Port with LED (ACT/LINK LED and SPEED LED) - HD Audio Jack: Rear Speaker/Central/Bass/Line in/ Front Speaker/Microphone (see **CAUTION 5**)
Connector	- 5 x SATA2 3.0Gb/s connectors, support RAID (RAID 0, RAID 1, RAID 10 and JBOD), NCQ, AHCI and “Hot Plug” functions - 1 x ATA133 IDE connector (supports 2 x IDE devices) - 1 x Floppy connector - 1 x IR header - 1 x COM port header - 1 x Print port header - CPU/Chassis/Power FAN connector - 24 pin ATX power connector - 4 pin 12V power connector - CD in header - Front panel audio connector - 3 x USB 2.0 headers (support 6 USB 2.0 ports)
BIOS Feature	- 8Mb AMI BIOS - AMI Legal BIOS - Supports “Plug and Play” - ACPI 1.1 Compliance Wake Up Events - Supports jumperfree - SMBIOS 2.3.1 Support - VCCM, NB Voltage Multi-adjustment
Support CD	- Drivers, Utilities, AntiVirus Software (Trial Version), CyberLink MediaEspresso 6.5 Trial, ASRock Software Suite (CyberLink DVD Suite - OEM and Trial; Creative Sound Blaster X-Fi MB - Trial; ASRock MAGIX Multimedia Suite - OEM)
Unique Feature	- ASRock OC Tuner (see **CAUTION 6**) - ASRock Intelligent Energy Saver (see **CAUTION 7**) - ASRock Instant Boot - ASRock Instant Flash (see **CAUTION 8**) - ASRock OC DNA (see **CAUTION 9**) - ASRock APP Charger (see **CAUTION 10**)

	- Hybrid Booster: - CPU Frequency Stepless Control (see **CAUTION 11**) - ASRock U-COP (see **CAUTION 12**) - Boot Failure Guard (B.F.G.)
Hardware Monitor	- CPU Temperature Sensing - Chassis Temperature Sensing - CPU/Chassis/Power Fan Tachometer - CPU Quiet Fan - Voltage Monitoring: +12V, +5V, +3.3V, Vcore
OS	- Microsoft® Windows® 7 / 7 64-bit / Vista™ / Vista™ 64-bit / XP / XP Media Center / XP 64-bit compliant
Certifications	- FCC, CE, WHQL - ErP/EuP Ready (ErP/EuP ready power supply is required) (see **CAUTION 13**)

* For detailed product information, please visit our website: http://www.asrock.com

WARNING

Please realize that there is a certain risk involved with overclocking, including adjusting the setting in the BIOS, applying Untied Overclocking Technology, or using the third-party overclocking tools. Overclocking may affect your system stability, or even cause damage to the components and devices of your system. It should be done at your own risk and expense. We are not responsible for possible damage caused by overclocking.

English

CAUTION!

1. This motherboard supports Untied Overclocking Technology. Please read "Untied Overclocking Technology" on page 27 for details.
2. This motherboard supports Dual Channel Memory Technology. Before you implement Dual Channel Memory Technology, make sure to read the installation guide of memory modules on page 12 for proper installation.
3. Due to the operating system limitation, the actual memory size may be less than 4GB for the reservation for system usage under Windows® 7 / Vista™ / XP. For Windows® OS with 64-bit CPU, there is no such limitation.
4. The maximum shared memory size is defined by the chipset vendor and is subject to change. Please check AMD website for the latest information.
5. For microphone input, this motherboard supports both stereo and mono modes. For audio output, this motherboard supports 2-channel, 4-channel, 6-channel, and 8-channel modes. Please check the table on page 3 for proper connection.
6. It is a user-friendly ASRock overclocking tool which allows you to surveil your system by hardware monitor function and overclock your hardware devices to get the best system performance under Windows® environment. Please visit our website for the operation procedures of ASRock OC Tuner. ASRock website: http://www.asrock.com
7. Featuring an advanced proprietary hardware and software design, Intelligent Energy Saver is a revolutionary technology that delivers unparalleled power savings. The voltage regulator can reduce the number of output phases to improve efficiency when the CPU cores are idle. In other words, it is able to provide exceptional power saving and improve power efficiency without sacrificing computing performance. To use Intelligent Energy Saver function, please enable Cool 'n' Quiet option in the BIOS setup in advance. Please visit our website for the operation procedures of Intelligent Energy Saver.
   ASRock website: http://www.asrock.com
8. ASRock Instant Flash is a BIOS flash utility embedded in Flash ROM. This convenient BIOS update tool allows you to update system BIOS without entering operating systems first like MS-DOS or Windows®. With this utility, you can press <F6> key during the POST or press <F2> key to BIOS setup menu to access ASRock Instant Flash. Just launch this tool and save the new BIOS file to your USB flash drive, floppy disk or hard drive, then you can update your BIOS only in a few clicks without preparing an additional floppy diskette or other complicated flash utility. Please be noted that the USB flash drive or hard drive must use FAT32/16/12 file system.

English

9. The software name itself – OC DNA literally tells you what it is capable of. OC DNA, an exclusive utility developed by ASRock, provides a convenient way for the user to record the OC settings and share with others. It helps you to save your overclocking record under the operating system and simplifies the complicated recording process of overclocking settings. With OC DNA, you can save your OC settings as a profile and share with your friends! Your friends then can load the OC profile to their own system to get the same OC settings as yours! Please be noticed that the OC profile can only be shared and worked on the same motherboard.
10. If you desire a faster, less restricted way of charging your Apple devices, such as iPhone/iPod/iPad Touch, ASRock has prepared a wonderful solution for you - ASRock APP Charger. Simply installing the APP Charger driver, it makes your iPhone charged much quickly from your computer and up to 40% faster than before. ASRock APP Charger allows you to quickly charge many Apple devices simultaneously and even supports continuous charging when your PC enters into Standby mode (S1), Suspend to RAM (S3), hibernation mode (S4) or power off (S5). With APP Charger driver installed, you can easily enjoy the marvelous charging experience than ever.
ASRock website: http://www.asrock.com/Feature/AppCharger/index.asp
11. Although this motherboard offers stepless control, it is not recommended to perform over-clocking. Frequencies other than the recommended CPU bus frequencies may cause the instability of the system or damage the CPU.
12. While CPU overheat is detected, the system will automatically shutdown. Before you resume the system, please check if the CPU fan on the motherboard functions properly and unplug the power cord, then plug it back again. To improve heat dissipation, remember to spray thermal grease between the CPU and the heatsink when you install the PC system.
13. EuP, stands for Energy Using Product, was a provision regulated by European Union to define the power consumption for the completed system. According to EuP, the total AC power of the completed system shall be under 1.00W in off mode condition. To meet EuP standard, an EuP ready motherboard and an EuP ready power supply are required. According to Intel's suggestion, the EuP ready power supply must meet the standard of 5v standby power efficiency is higher than 50% under 100 mA current consumption. For EuP ready power supply selection, we recommend you checking with the power supply manufacturer for more details.

2. Installation

This is a Micro ATX form factor (9.6-in x 8.6-in, 24.4 cm x 21.8 cm) motherboard. Before you install the motherboard, study the configuration of your chassis to ensure that the motherboard fits into it.

Pre-installation Precautions

Take note of the following precautions before you install motherboard components or change any motherboard settings.

Before you install or remove any component, ensure that the power is switched off or the power cord is detached from the power supply. Failure to do so may cause severe damage to the motherboard, peripherals, and/or components.

1. Unplug the power cord from the wall socket before touching any component.
2. To avoid damaging the motherboard components due to static electricity, NEVER place your motherboard directly on the carpet or the like. Also remember to use a grounded wrist strap or touch a safety grounded object before you handle components.
3. Hold components by the edges and do not touch the ICs.
4. Whenever you uninstall any component, place it on a grounded anti-static pad or in the bag that comes with the component.
5. When placing screws into the screw holes to secure the motherboard to the chassis, please do not over-tighten the screws! Doing so may damage the motherboard.

English

2.1 CPU Installation

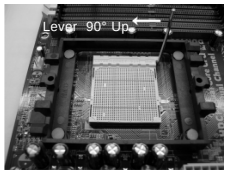
Step 1. Unlock the socket by lifting the lever up to a 90° angle.

Step 2. Position the CPU directly above the socket such that the CPU corner with the golden triangle matches the socket corner with a small triangle.

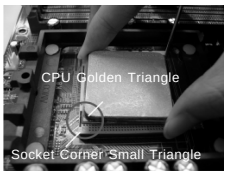
Step 3. Carefully insert the CPU into the socket until it fits in place.

The CPU fits only in one correct orientation. DO NOT force the CPU into the socket to avoid bending of the pins.

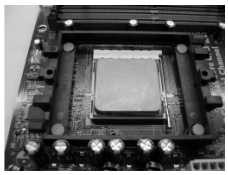
Step 4. When the CPU is in place, press it firmly on the socket while you push down the socket lever to secure the CPU. The lever clicks on the side tab to indicate that it is locked.



STEP 1:
Lift Up The Socket Lever



STEP 2 / STEP 3:
Match The CPU Golden Triangle To The Socket Corner Small Triangle



STEP 4:
Push Down And Lock The Socket Lever

2.2 Installation of CPU Fan and Heatsink

After you install the CPU into this motherboard, it is necessary to install a larger heatsink and cooling fan to dissipate heat. You also need to spray thermal grease between the CPU and the heatsink to improve heat dissipation. Make sure that the CPU and the heatsink are securely fastened and in good contact with each other. Then connect the CPU fan to the CPU FAN connector (CPU_FAN1, see Page 2, No. 5). For proper installation, please kindly refer to the instruction manuals of the CPU fan and the heatsink.

English

2.3 Installation of Memory Modules (DIMM)

939A785GMH motherboard provides four 184-pin DDR (Double Data Rate) DIMM slots, and supports Dual Channel Memory Technology. For dual channel configuration, you always need to install **identical** (the same brand, speed, size and chip-type) DDR DIMM pair in the slots of the same color. In other words, you have to install **identical** DDR DIMM pair in **Dual Channel A** (DDR1 and DDR2; Blue slots; see p. 2 No.6) or **identical** DDR DIMM pair in **Dual Channel B** (DDR3 and DDR4; Black slots; see p.2 No.7), so that Dual Channel Memory Technology can be activated. This motherboard also allows you to install four DDR DIMMs for dual channel configuration, and please install **identical** DDR DIMMs in all four slots. You may refer to the Dual Channel Memory Configuration Table below.

Dual Channel Memory Configurations

	DDR1 (Blue Slot)	DDR2 (Blue Slot)	DDR3 (Black Slot)	DDR4 (Black Slot)
(1)	Populated	Populated	-	-
(2)	-	-	Populated	Populated
(3)*	Populated	Populated	Populated	Populated

* For the configuration (3), please install **identical** DDR DIMMs in all four slots.

1. If you want to install two memory modules, for optimal compatibility and reliability, it is recommended to install them in the slots of the same color. In other words, install them either in the set of blue slots (DDR1 and DDR2), or in the set of black slots (DDR3 and DDR4).
2. If only one memory module or three memory modules are installed in the DDR DIMM slots on this motherboard, it is unable to activate the Dual Channel Memory Technology.
3. If a pair of memory modules is NOT installed in the same Dual Channel, for example, installing a pair of memory modules in DDR1 and DDR3, it is unable to activate the Dual Channel Memory Technology .

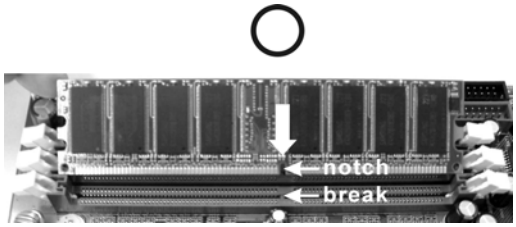
English

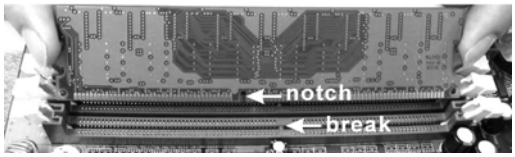
Installing a DIMM

Please make sure to disconnect power supply before adding or removing DIMMs or the system components.

Step 1. Unlock a DIMM slot by pressing the retaining clips outward.

Step 2. Align a DIMM on the slot such that the notch on the DIMM matches the break on the slot.





The DIMM only fits in one correct orientation. It will cause permanent damage to the motherboard and the DIMM if you force the DIMM into the slot at incorrect orientation.

Step 3. Firmly insert the DIMM into the slot until the retaining clips at both ends fully snap back in place and the DIMM is properly seated.

English

2.4 Expansion Slots (PCI and PCI Express Slots)

There are 2 PCI slots and 2 PCI Express slots on this motherboard.

PCI slots: PCI slots are used to install expansion cards that have the 32-bit PCI interface.

PCIE slots:

PCIE1 (PCIE x1 slot; White) is used for PCI Express cards with x1 lane width cards, such as Gigabit LAN card, SATA2 card, etc.

PCIE2 (PCIE x16 slot; Blue) is used for PCI Express cards with x16 lane width graphics cards.

Installing an expansion card

Step 1. Before installing the expansion card, please make sure that the power supply is switched off or the power cord is unplugged. Please read the documentation of the expansion card and make necessary hardware settings for the card before you start the installation.

Step 2. Remove the bracket facing the slot that you intend to use. Keep the screws for later use.

Step 3. Align the card connector with the slot and press firmly until the card is completely seated on the slot.

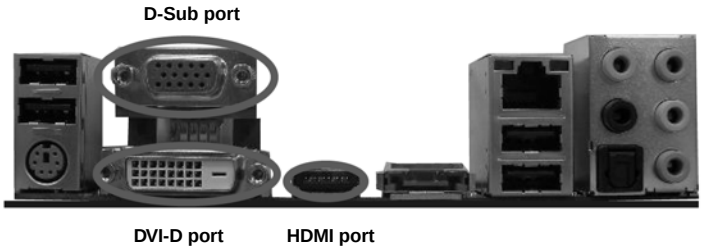
Step 4. Fasten the card to the chassis with screws.

2.5 Dual Monitor and Surround Display Features

Dual Monitor Feature

This motherboard supports dual monitor feature. With the internal VGA output support (DVI-D, D-Sub and HDMI), you can easily enjoy the benefits of dual monitor feature without installing any add-on VGA card to this motherboard. This motherboard also provides independent display controllers for DVI-D, D-Sub or HDMI to support dual VGA output so that DVI-D, D-sub or HDMI can drive same or different display contents. To enable dual monitor feature, please follow the below steps:

1. Connect DVI-D monitor cable to DVI-D port on the I/O panel, connect D-Sub monitor cable to D-Sub port on the I/O panel, or connect HDMI monitor cable to HDMI port on the I/O panel.



DVI-D and HDMI monitors cannot display at the same time. You can only choose the combination for dual monitor output support: DVI-D + D-Sub or HDMI + D-Sub.

2. If you have installed onboard VGA driver from our support CD to your system already, you can freely enjoy the benefits of multi monitor function after your system boots. If you haven't installed onboard VGA driver yet, please install onboard VGA driver from our support CD to your system and restart your computer. Then you can start to use multi monitor function on this motherboard.

When you playback HDCP-protected video from Blu-ray (BD) or HD-DVD disc, the content will be displayed only in one of the three monitors instead of all monitors.

English

Surround Display Feature

This motherboard supports surround display upgrade. With the internal VGA output support (DVI-D, D-Sub and HDMI) and external add-on PCI Express VGA card, you can easily enjoy the benefits of surround display feature.

Please refer to the following steps to set up a surround display environment:

1. Install the ATI™ PCI Express VGA cards on PCIE2 slot. Please refer to page 14 for proper expansion card installation procedures for details.
2. Connect DVI-D monitor cable to DVI-D port on the I/O panel, connect D-Sub monitor cable to D-Sub port on the I/O panel, or connect HDMI monitor cable to HDMI port on the I/O panel. Then connect other monitor cables to the corresponding connectors of the add-on PCI Express VGA cards on PCIE2 slot.

DVI-D and HDMI monitors cannot display at the same time. You can only choose the combination: DVI-D + D-Sub or HDMI + D-Sub.

3. Boot your system. Press <F2> to enter BIOS setup. Enter “Share Memory” option to adjust the memory capability to [32MB], [64MB], [128MB] [256MB] or [512MB] to enable the function of D-sub. Please make sure that the value you select is less than the total capability of the system memory. If you do not adjust the BIOS setup, the default value of “Share Memory”, [Auto], will disable D-Sub function when the add-on VGA card is inserted to this motherboard.
4. Install the onboard VGA driver and the add-on PCI Express VGA card driver to your system. If you have installed the drivers already, there is no need to install them again.
5. Set up a multi-monitor display.

For Windows® XP / XP 64-bit OS:

Right click the desktop, choose “Properties”, and select the “Settings” tab so that you can adjust the parameters of the multi-monitor according to the steps below.

A. Click the “Identify” button to display a large number on each monitor.

B. Right-click the display icon in the Display Properties dialog that you wish to be your primary monitor, and then select “Primary”. When you use multiple monitors with your card, one monitor will always be Primary, and all additional monitors will be designated as Secondary.

C. Select the display icon identified by the number 2.

D. Click “Extend my Windows desktop onto this monitor”.

E. Right-click the display icon and select “Attached”, if necessary.

F. Set the “Screen Resolution” and “Color Quality” as appropriate for the second monitor. Click “Apply” or “OK” to apply these new values.

English

G. Repeat steps C through E for the diaplay icon identified by the number one, two, three and four.

For Windows® 7 / 7 64-bit / Vista™ / Vista™ 64-bit OS:

Right click the desktop, choose “Personalize”, and select the “Display Settings” tab so that you can adjust the parameters of the multi-monitor according to the steps below.

A. Click the number ”2” icon.

B. Click the items “This is my main monitor” and “Extend the desktop onto this monitor”.

C. Click “OK” to save your change.

D. Repeat steps A through C for the display icon identified by the number three and four.

6. Use Surround Display. Click and drag the display icons to positions representing the physical setup of your monitors that you would like to use. The placement of display icons determines how you move items from one monitor to another.

HDCP Function

HDCP function is supported on this motherboard. To use HDCP function with this motherboard, you need to adopt the monitor that supports HDCP function as well. Therefore, you can enjoy the superior display quality with high-definition HDCP encryption contents. Please refer to below instruction for more details about HDCP function.

What is HDCP?

HDCP stands for High-Bandwidth Digital Content Protection, a specification developed by Intel® for protecting digital entertainment content that uses the DVI interface. HDCP is a copy protection scheme to eliminate the possibility of intercepting digital data midstream between the video source, or transmitter - such as a computer, DVD player or set-top box - and the digital display, or receiver - such as a monitor, television or projector. In other words, HDCP specification is designed to protect the integrity of content as it is being transmitted.

Products compatible with the HDCP scheme such as DVD players, satellite and cable HDTV set-top-boxes, as well as few entertainment PCs requires a secure connection to a compliant display. Due to the increase in manufacturers employing HDCP in their equipment, it is highly recommended that the HDTV or LCD monitor you purchase is compatible.

2.6 ATI™ Hybrid CrossFireX™ Operation Guide

This motherboard supports ATI™ Hybrid CrossFireX™ feature. ATI™ Hybrid CrossFireX™ brings multi-GPU performance capabilities by enabling an AMD 785G integrated graphics processor and a discrete graphics processor to operate simultaneously with combined output to a single display for blisteringly-fast frame rates. Currently, ATI™ Hybrid CrossFireX™ Technology is only supported with Windows® 7 / Vista™ OS, and is not available with Windows® XP OS.

What does an ATI™ Hybrid CrossFireX™ system include?

An ATI™ Hybrid CrossFireX™ system includes an ATI™ Radeon™ 2400 or ATI™ Radeon™ 3450 series graphics processor and a motherboard based on an AMD 785G integrated chipset, all operating in a Windows® Vista™ environment. Please refer to below PCI Express graphics card support list for ATI™ Hybrid CrossFireX™.

Vendor	Chipset	Model	Driver
ATI	RADEON X2400PRO	MSI RX2400 PRO-TD256EH	Catalyst 8.7
	RADEON HD2400XT *	POWERCOLOR HD2400 XT 256MB DDR3	Catalyst 8.7
	RADEON HD3450	POWERCOLOR AX3450 256MD2-S	Catalyst 8.7

* Currently, RADEON HD2400XT series graphics cards are only supported with AMD Phenom CPU. Please visit our website for the future driver update and the latest information.

Enjoy the benefit of ATI™ Hybrid CrossFireX™

Step 1. Install one compatible PCI Express graphics card to PCIE2 slot (blue). For the proper installation procedures, please refer to section “Expansion Slots”.

Step 2. Connect the monitor cable to the correspondent connector on the PCI Express graphics card on PCIE2 slot.

Step 3. Boot your system. Press <F2> to enter BIOS setup. Enter “Advanced” screen, and enter “Chipset Settings”. Then set the option “Surround View” to [Enabled].

Step 4. Boot into OS. Please remove the ATI™ driver if you have any VGA driver installed in your system.

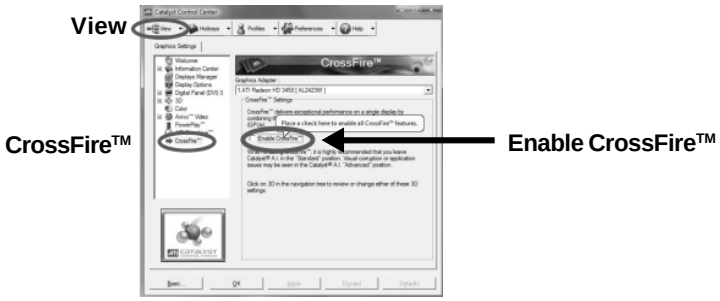
Step 5. Install the onboard VGA driver from our support CD to your system for both the onboard VGA and the discrete graphics card.

Step 6. Restart your computer. Then you will find “ATI Catalyst Control Center” on your Windows® taskbar.

ATI Catalyst Control Center

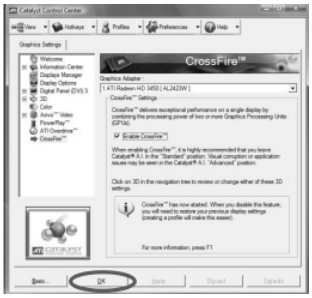
English

Step 7. Double-click “ATI Catalyst Control Center”. Click “View”, click “CrossFire™”, and then select the option “Enable CrossFire™”.



Step 8. Click “Yes” to continue.

Step 9. Click “OK” to save your change.



Step 10. Reboot your system. Then you can freely enjoy the benefit of Hybrid™ CrossFireX™ feature.

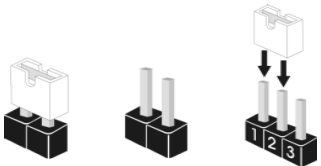
English

* Hybrid CrossFireX™ appearing here is a registered trademark of ATI™ Technologies Inc., and is used only for identification or explanation and to the owners’ benefit, without intent to infringe.

* For further information of ATI™ Hybrid CrossFireX™ technology, please check AMD website for up dates and details.

2.7 Jumpers Setup

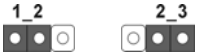
The illustration shows how jumpers are setup. When the jumper cap is placed on pins, the jumper is “Short”. If no jumper cap is placed on pins, the jumper is “Open”. The illustration shows a 3-pin jumper whose pin1 and pin2 are “Short” when jumper cap is placed on these 2 pins.



Short Open

Jumper	Setting	
PS2_USB_PW1 (see p.2, No. 1)		Short pin2, pin3 to enable +5VSB (standby) for PS/2 or USB wake up events.

Note: To select +5VSB, it requires 2 Amp and higher standby current provided by power supply.

Clear CMOS Jumper (CLRCMOS1) (see p.2, No. 14)	 Default Clear CMOS	

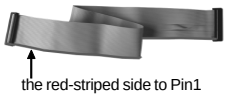
Note: CLRCMOS1 allows you to clear the data in CMOS. The data in CMOS includes system setup information such as system password, date, time, and system setup parameters. To clear and reset the system parameters to default setup, please turn off the computer and unplug the power cord from the power supply. After waiting for 15 seconds, use a jumper cap to short pin2 and pin3 on CLRCMOS1 for 5 seconds. However, please do not clear the CMOS right after you update the BIOS. If you need to clear the CMOS when you just finish updating the BIOS, you must boot up the system first, and then shut it down before you do the clear-CMOS action.

English

2.8 Onboard Headers and Connectors

Onboard headers and connectors are NOT jumpers. Do NOT place jumper caps over these headers and connectors. Placing jumper caps over the headers and connectors will cause permanent damage of the motherboard!

Floppy Connector
(33-pin FLOPPY1)
(see p.2 No. 26)



Note: Make sure the red-striped side of the cable is plugged into Pin1 side of the connector.

Primary IDE connector (Blue)
(39-pin IDE1, see p.2 No. 9)

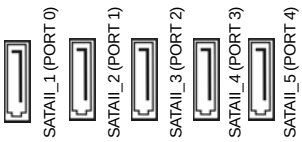
connect the blue end to the motherboard

connect the black end to the IDE devices

80-conductor ATA 66/100/133 cable

Note: Please refer to the instruction of your IDE device vendor for the details.

Serial ATAII Connectors
(SATAII_1 (PORT 0):
see p.2, No. 21)
(SATAII_2 (PORT 1):
see p.2, No. 20)
(SATAII_3 (PORT 2):
see p.2, No. 19)
(SATAII_4 (PORT 3):
see p.2, No. 18)
(SATAII_5 (PORT 4):
see p.2, No. 17)



These five Serial ATAII (SATAII) connectors support SATAII or SATA hard disk for internal storage devices. The current SATAII interface allows up to 3.0 Gb/s data transfer rate.

Serial ATA (SATA)
Data Cable
(Optional)

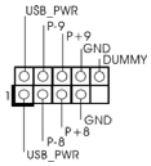
Either end of the SATA data cable can be connected to the SATA / SATAII hard disk or the SATAII connector on this motherboard.

English

USB 2.0 Headers

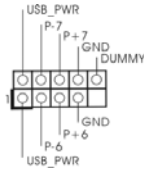
(9-pin USB8_9)

(see p.2 No. 10)



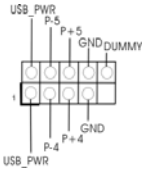
(9-pin USB6_7)

(see p.2 No. 11)



(9-pin USB4_5)

(see p.2 No. 12)

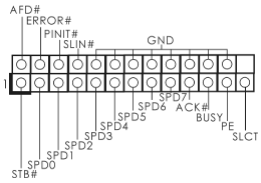


Besides four default USB 2.0 ports on the I/O panel, there are three USB 2.0 headers on this motherboard. Each USB 2.0 header can support two USB 2.0 ports.

Print Port Header

(25-pin LPT1)

(see p.2 No. 25)

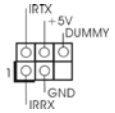


This is an interface for print port cable that allows convenient connection of printer devices.

Infrared Module Header

(5-pin IR1)

(see p.2 No. 30)

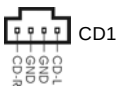


This header supports an optional wireless transmitting and receiving infrared module.

Internal Audio Connectors

(4-pin CD1)

(CD1: see p.2 No. 28)

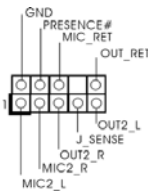


This connector allows you to receive stereo audio input from sound sources such as a CD-ROM, DVD-ROM, TV tuner card, or MPEG card.

Front Panel Audio Header

(9-pin HD_AUDIO1)

(see p.2, No. 29)

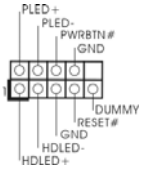


This is an interface for the front panel audio cable that allows convenient connection and control of audio devices.

English

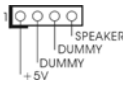
1. High Definition Audio supports Jack Sensing, but the panel wire on the chassis must support HDA to function correctly. Please follow the instruction in our manual and chassis manual to install your system.
2. If you use AC'97 audio panel, please install it to the front panel audio header as below:
   A. Connect Mic_IN (MIC) to MIC2_L.
   B. Connect Audio_R (RIN) to OUT2_R and Audio_L (LIN) to OUT2_L.
   C. Connect Ground (GND) to Ground (GND).
   D. MIC_RET and OUT_RET are for HD audio panel only. You don't need to connect them for AC'97 audio panel.
   E. Enter BIOS Setup Utility. Enter Advanced Settings, and then select Chipset Configuration. Set the Front Panel Control option from [Auto] to [Enabled].
   F. Enter Windows system. Click the icon on the lower right hand taskbar to enter Realtek HD Audio Manager.
   For Windows® XP / XP 64-bit OS:
   Click "Audio I/O", select "Connector Settings"  , choose "Disable front panel jack detection", and save the change by clicking "OK".
   For Windows® Vista™ / Vista™ 64-bit OS:
   Click the right-top "Folder" icon  , choose "Disable front panel jack detection", and save the change by clicking "OK".
   G. To activate the front mic.
   For Windows® XP / XP 64-bit OS:
   Please select "Front Mic" as default record device.
   If you want to hear your voice through front mic, please deselect "Mute" icon in "Front Mic" of "Playback" portion.
   For Windows® 7 / 7 64-bit / Vista™ / Vista™ 64-bit OS:
   Go to the "Front Mic" Tab in the Realtek Control panel.
   Click "Set Default Device" to make the Front Mic as the default record device.

System Panel Header
(9-pin PANEL1)
(see p.2 No. 23)



This header accommodates several system front panel functions.

Chassis Speaker Header
(4-pin SPEAKER 1)
(see p.2 No. 22)



Please connect the chassis speaker to this header.

English

Chassis and Power Fan Connectors

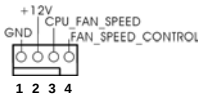
(3-pin CHA_FAN1)
(see p.2 No. 16)

(3-pin PWR_FAN1)
(see p.2 No. 13)

Please connect the fan cables to the fan connectors and match the black wire to the ground pin.

CPU Fan Connector

(4-pin CPU_FAN1)
(see p.2 No. 5)



Please connect the CPU fan cable to this connector and match the black wire to the ground pin.

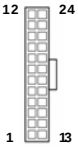
Though this motherboard provides 4-Pin CPU fan (Quiet Fan) support, the 3-Pin CPU fan still can work successfully even without the fan speed control function. If you plan to connect the 3-Pin CPU fan to the CPU fan connector on this motherboard, please connect it to Pin 1-3.

Pin 1-3 Connected

3-Pin Fan Installation

ATX Power Connector

(24-pin ATXPWR1)
(see p.2 No. 8)



Please connect an ATX power supply to this connector.

Though this motherboard provides 24-pin ATX power connector, it can still work if you adopt a traditional 20-pin ATX power supply. To use the 20-pin ATX power supply, please plug your power supply along with Pin 1 and Pin 13.

20-Pin ATX Power Supply Installation

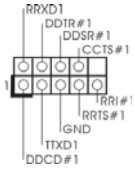
ATX 12V Power Connector

(4-pin ATX12V1)
(see p.2 No. 2)

Please connect an ATX 12V power supply to this connector.

Serial port Header

(9-pin COM1)
(see p.2 No.27)



This COM1 header supports a serial port module.

English

2.9 Driver Installation Guide

To install the drivers to your system, please insert the support CD to your optical drive first. Then, the drivers compatible to your system can be auto-detected and listed on the support CD driver page. Please follow the order from up to bottom side to install those required drivers. Therefore, the drivers you install can work properly.

2.10 Installing Windows® 7 / 7 64-bit / Vista™ / Vista™ 64-bit / XP / XP 64-bit With RAID Functions

If you want to install Windows® 7 / 7 64-bit / Vista™ / Vista™ 64-bit / XP / XP 64-bit on your SATA / SATAII HDDs with RAID functions, please refer to the document at the following path in the Support CD for detailed procedures:

..\ RAID Installation Guide

2.11 Installing Windows® 7 / 7 64-bit / Vista™ / Vista™ 64-bit / XP / XP 64-bit Without RAID Functions

If you want to install Windows® 7 / 7 64-bit / Vista™ / Vista™ 64-bit / XP / XP 64-bit OS on your SATA / SATAII HDDs without RAID functions, please follow below procedures according to the OS you install.

2.11.1 Installing Windows® XP / XP 64-bit Without RAID Functions

If you want to install Windows® XP / XP 64-bit on your SATA / SATAII HDDs without RAID functions, please follow below steps.

Using SATA / SATAII HDDs without NCQ and Hot Plug functions (IDE mode)

STEP 1: Set up BIOS.

A. Enter BIOS SETUP UTILITY → Advanced screen→ Storage Configuration.

B. Set the “SATA Operation Mode” option to [IDE].

STEP 2: Install Windows® XP / XP 64-bit OS on your system.

English

2.11.2 Installing Windows® 7 / 7 64-bit / Vista™ / Vista™ 64-bit Without RAID Functions

If you want to install Windows® 7 / 7 64-bit / Vista™ / Vista™ 64-bit on your SATA / SATAII HDDs without RAID functions, please follow below steps.

Using SATA / SATAII HDDs without NCQ and Hot Plug functions (IDE mode)

STEP 1: Set up BIOS.

A. Enter BIOS SETUP UTILITY → Advanced screen → Storage Configuration.

B. Set the "SATA Operation Mode" option to [IDE].

STEP 2: Install Windows® 7 / 7 64-bit / Vista™ / Vista™ 64-bit OS on your system.

Using SATA / SATAII HDDs with NCQ and Hot Plug functions (AHCI mode)

STEP 1: Set Up BIOS.

A. Enter BIOS SETUP UTILITY → Advanced screen → Storage Configuration.

B. Set the "SATA Operation Mode" option to [AHCI].

STEP 2: Install Windows® 7 / 7 64-bit / Vista™ / Vista™ 64-bit OS on your system.

English

2.12 Untied Overclocking Technology

This motherboard supports Untied Overclocking Technology, which means during overclocking, FSB enjoys better margin due to fixed PCI / PCIE buses. Before you enable Untied Overclocking function, please enter "Overclock Mode" option of BIOS setup to set the selection from [Auto] to [CPU, PCIE, Async.]. Therefore, CPU FSB is untied during overclocking, but PCI / PCIE buses are in the fixed mode so that FSB can operate under a more stable overclocking environment.

Please refer to the warning on page 7 for the possible overclocking risk before you apply Untied Overclocking Technology.

English

3. BIOS Information

The Flash Memory on the motherboard stores BIOS Setup Utility. When you start up the computer, please press <F2> during the Power-On-Self-Test (POST) to enter BIOS Setup utility; otherwise, POST continues with its test routines. If you wish to enter BIOS Setup after POST, please restart the system by pressing <Ctl> + <Alt> + <Delete>, or pressing the reset button on the system chassis. The BIOS Setup program is designed to be user-friendly. It is a menu-driven program, which allows you to scroll through its various sub-menus and to select among the predetermined choices. For the detailed information about BIOS Setup, please refer to the User Manual (PDF file) contained in the Support CD.

4. Software Support CD information

This motherboard supports various Microsoft® Windows® operating systems: 7 / 7 64-bit / Vista™ / Vista™ 64-bit / XP / XP Media Center / XP 64-bit. The Support CD that came with the motherboard contains necessary drivers and useful utilities that will enhance motherboard features. To begin using the Support CD, insert the CD into your CD-ROM drive. It will display the Main Menu automatically if “AUTORUN” is enabled in your computer. If the Main Menu does not appear automatically, locate and double-click on the file “ASSETUP.EXE” from the “BIN” folder in the Support CD to display the menus.

English

1. Einführung

Wir danken Ihnen für den Kauf des ASRock ***939A785GMH*** Motherboard, ein zuverlässiges Produkt, welches unter den ständigen, strengen Qualitätskontrollen von ASRock gefertigt wurde. Es bietet Ihnen exzellente Leistung und robustes Design, gemäß der Verpflichtung von ASRock zu Qualität und Halbarkeit.

Diese Schnellinstallationsanleitung führt in das Motherboard und die schrittweise Installation ein. Details über das Motherboard finden Sie in der Bedienungsanleitung auf der Support-CD.

Da sich Motherboard-Spezifikationen und BIOS-Software verändern können, kann der Inhalt dieses Handbuches ebenfalls jederzeit geändert werden. Für den Fall, dass sich Änderungen an diesem Handbuch ergeben, wird eine neue Version auf der ASRock-Website, ohne weitere Ankündigung, verfügbar sein. Die neuesten Grafikkarten und unterstützten CPUs sind auch auf der ASRock-Website aufgelistet.
ASRock-Website: http://www.asrock.com
Wenn Sie technische Unterstützung zu Ihrem Motherboard oder spezifische Informationen zu Ihrem Modell benötigen, besuchen Sie bitte unsere Webseite:
www.asrock.com/support/index.asp

1.1 Kartoninhalt

ASRock ***939A785GMH*** Motherboard
(Micro ATX-Formfaktor: 24.4 cm x 21.8 cm; 9.6 Zoll x 8.6 Zoll)
ASRock ***939A785GMH*** Schnellinstallationsanleitung
ASRock ***939A785GMH*** Support-CD
Zwei Seriell-ATA- (SATA) Datenkabel (Option)
Ein I/O Shield

1.2 Spezifikationen

Plattform	- Micro ATX-Formfaktor: 24.4 cm x 21.8 cm; 9.6 Zoll x 8.6 Zoll - Festkondensator für CPU-Leistung
CPU	- 939 Sockel, unterstützt AMD Athlon™ 64FX / 64X2 / 64 - Unterstützt Cool 'n' Quiet™-Technologie von AMD - FSB 1000 MHz (2.0 GT/s) - Unterstützt Untied-Übertaktungstechnologie (siehe **VORSICHT 1**) - Unterstützt Hyper-Transport-Technologie
Chipsatz	- Northbridge: AMD 785G - Southbridge: AMD 710
Speicher	- Unterstützung von Dual-Kanal-Speichertechnologie (siehe **VORSICHT 2**) - 4 x Steckplätze für DDR - Unterstützt DDR 400/333/266 non-ECC, ungepufferter Speicher - Max. Kapazität des Systemspeichers: 4GB (siehe **VORSICHT 3**)
Erweiterungs-steckplätze	- 1 x PCI Express 2.0 x16-Steckplatz (blau für x16-Modus) - 1 x PCI Express 2.0 x1-Steckplatz - 2 x PCI -Steckplätze - Unterstützt ATI™ Hybrid CrossFireX™
Onboard-VGA	- Integrierte AMD Radeon HD 4200-Grafik - DX10.1 Klasse iGPU, Shader Model 4.1 - Maximal gemeinsam genutzter Speicher 512 MB (siehe **VORSICHT 4**) - Drei VGA-Ausgangsoptionen: D-Sub, DVI-D sowie HDMI - Unterstützt HDMI mit einer maximalen Auflösung von 1920 x 1200 (1080p) - Unterstützt Dual-Link-DVI mit einer maximalen Auflösung von 2560 x 1600 bei 75 Hz - Unterstützt D-Sub mit einer maximalen Auflösung von 2048 x 1536 bei 60 Hz - Unterstützt HDCP-Funktion mit DVI- und HDMI-Ports - Unterstutzt 1080p Blu-ray (BD) / HD-DVD-Wiedergabe mit DVI- und HDMI-Ports
Audio	- 7.1 CH HD Audio (Realtek ALC888 Audio Codec)
LAN	- PCIE x1 Gigabit LAN 10/100/1000 Mb/s - Realtek RTL8111DL - Unterstützt Wake-On-LAN - Unterstützt PXE

E/A-Anschlüsse an der Rückseite	I/O Panel - 1 x PS/2-Tastaturanschluss - 1 x D-Sub port - 1 x DVI-D port - 1 x HDMI port - 1 x optischer SPDIF-Ausgang - 4 x Standard-USB 2.0-Anschlüsse - 1 x eSATA2 port - 1 x RJ-45 LAN Port mit LED (ACT/LINK LED und SPEED LED) - HD Audiobuchse: Lautsprecher hinten / Mitte/Bass / Audioeingang/ Lautsprecher vorne / Mikrofon (siehe **VORSICHT 5**)
Anschlüsse	- 5 x SATA2-Anschlüsse, unterstützt bis 3.0 Gb/s Datenübertragungsrate, unterstützt RAID (RAID 0, RAID 1, RAID 5, RAID 10 und JBOD), NCQ, AHCI und “Hot Plug” Funktionen - 1 x ATA133 IDE-Anschlüsse (Unterstützt bis 2 IDE-Geräte) - 1 x FDD-Anschlüsse - 1 x Infrarot-Modul-Header - 1 x COM-Anschluss-Header - 1 x Druckerport-Anschlussleiste - CPU/Gehäuse/Stromlüfter-Anschluss - 24-pin ATX-Netz-Header - 4-pin anschluss für 12V-ATX-Netzteil - Interne Audio-Anschlüsse - Anschluss für Audio auf der Gehäusevorderseite - 3 x USB 2.0-Anschlüsse (Unterstützung 6 zusätzlicher USB 2.0-Anschlüsse)
BIOS	- 8Mb AMI BIOS - AMI legal BIOS mit Unterstützung für “Plug and Play” - ACPI 1.1-Weckfunktionen - SMBIOS 2.3.1 - VCCM, NB Stromspannung Multianpassung
Support-CD	- Pilotes, utilitaires, logiciel anti-virus (version d’évaluation), CyberLink MediaEspresso 6.5 Trial, Suite logicielle ASRock (CyberLink DVD Suite et Version OEM et d’essai; Creative Sound Blaster X-Fi MB - Testversion; ASRock MAGIX-Multimedia-Suite - OEM)
Einzigartige Eigenschaft	- ASRock OC Tuner (siehe **VORSICHT 6**) - ASRock Intelligent Energy Saver (Intelligente Energiesparfunktion) (siehe **VORSICHT 7**) - ASRock Sofortstart

	- ASRock Instant Flash (siehe **VORSICHT 8**) - ASRock OC DNA (siehe **VORSICHT 9**) - ASRock APP Charger (siehe **VORSICHT 10**) - Hybrid Booster: - Schrittloser CPU-Frequenz-Kontrolle (siehe **VORSICHT 11**) - ASRock U-COP (siehe **VORSICHT 12**) - Boot Failure Guard (B.F.G. – Systemstartfehlerschutz)
Hardware Monitor	- CPU-Temperatursensor - Motherboardtemperaturerkennung - Drehzahlmessung für CPU/Gehäuse/Stromlüfter - CPU-Lüftergeräuschdämpfung - Spannungsüberwachung: +12V, +5V, +3.3V, Vcore
Betriebssysteme	- Unterstützt Microsoft® Windows® 7 / 7 64-Bit / Vista™ / Vista™ 64-Bit / XP / XP Media Center / XP 64-Bit
Zertifizierungen	- FCC, CE, WHQL - Gemäß Ökodesign-Richtlinie (ErP/EuP) (Stromversorgung gemäß Ökodesign-Richtlinie (ErP/EuP) erforderlich) (siehe **VORSICHT 15**)

* Für die ausführliche Produktinformation, besuchen Sie bitte unsere Website: http://www.asrock.com

WARNUNG

Beachten Sie bitte, dass Overclocking, einschließlich der Einstellung im BIOS, Anwenden der Untied Overclocking-Technologie oder Verwenden von Overclocking-Werkzeugen von Dritten, mit einem gewissen Risiko behaftet ist. Overclocking kann sich nachteilig auf die Stabilität Ihres Systems auswirken oder sogar Komponenten und Geräte Ihres Systems beschädigen. Es geschieht dann auf eigene Gefahr und auf Ihre Kosten. Wir übernehmen keine Verantwortung für mögliche Schäden, die aufgrund von Overclocking verursacht wurden.

VORSICHT!

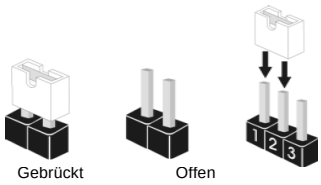
1. Dieses Motherboard unterstützt die Untied-Übertaktungstechnologie. Unter “Entkoppelte Übertaktungstechnologie” auf Seite 27 finden Sie detaillierte Informationen.
2. Dieses Motherboard unterstützt Dual-Kanal-Speichertechnologie. Vor Implementierung der Dual-Kanal-Speichertechnologie müssen Sie die Installationsanleitung für die Speichermodule auf Seite 12 zwecks richtiger Installation gelesen haben.
3. Durch Betriebssystem-Einschränkungen kann die tatsächliche Speichergröße weniger als 4 GB betragen, da unter Windows® 7 / Vista™ / XP etwas Speicher zur Nutzung durch das System reserviert wird. Unter Windows® OS mit 64-Bit-CPU besteht diese Einschränkung nicht.
4. Die Maximalspeichergröße ist von den Chipshändler definiert und umgetauscht. Bitte überprüfen Sie AMD website für die neuliche Information.
5. Der Mikrofoneingang dieses Motherboards unterstützt Stereo- und Mono-Modi. Der Audioausgang dieses Motherboards unterstützt 2-Kanal-, 4-Kanal-, 6-Kanal- und 8-Kanal-Modi. Stellen Sie die richtige Verbindung anhand der Tabelle auf Seite 3 her.
6. Es ist ein benutzerfreundlicher ASRock Übertaktenswerkzeug, das erlaubt, dass Sie Ihr System durch den Hardware-Monitor Funktion zu überblicken und Ihre Hardware-Geräte übertakten, um die beste Systemleistung unter der Windows® Umgebung zu erreichen. Besuchen Sie bitte unsere Website für die Operationsverfahren von ASRock OC Tuner. ASRock-Website: http://www.asrock.com
7. Mit einer eigenen, modernen Hardware und speziellem Softwaredesign, bietet der Intelligent Energy Saver eine revolutionäre Technologie zur bisher unerreichten Energieeinsparung. Ein Spannungsregler kann die Anzahl von Ausgangsphasen zur Effektivitätsverbessserung reduzieren, wenn sich die CPU im Leerlauf befindet. Mit anderen Worten: Sie genießen außergewöhnliche Energieeinsparung und verbesserten Wirkungsgrad ohne Leistungseinschränkungen. Wenn Sie die Intelligent Energy Saver-Funktion nutzen möchten, aktivieren Sie zuvor die „Cool ‘n’ Quiet“-Option im BIOS. Weitere Bedienungshinweise zum Intelligent Energy Saver finden Sie auf unseren Internetseiten. ASRock-Internetseite: http://www.asrock.com

8. ASRock Instant Flash ist ein im Flash-ROM eingebettetes BIOS-Flash-Programm. Mithilfe dieses praktischen BIOS-Aktualisierungswerkzeugs können Sie das System-BIOS aktualisieren, ohne dafür zuerst Betriebssysteme wie MS-DOS oder Windows® aufrufen zu müssen. Mit diesem Programm bekommen Sie durch Drücken der <F6>-Taste während des POST-Vorgangs oder durch Drücken der <F2>-Taste im BIOS-Setup-Menü Zugang zu ASRock Instant Flash. Sie brauchen dieses Werkzeug einfach nur zu starten und die neue BIOS-Datei auf Ihrem USB-Flash-Laufwerk, Diskettenlaufwerk oder der Festplatte zu speichern, und schon können Sie Ihr BIOS mit nur wenigen Klickvorgängen ohne Bereitstellung einer zusätzlichen Diskette oder eines anderen komplizierten Flash-Programms aktualisieren. Achten Sie darauf, dass das USB-Flash-Laufwerk oder die Festplatte das Dateisystem FAT32/16/12 benutzen muss.
9. Allein der Name – OC DNA* – beschreibt es wörtlich, was die Software zu leisten vermag. OC DNA ist ein von ASRock exklusiv entwickeltes Dienstprogramm, das Nutzern eine bequeme Möglichkeit bietet, Übertaktungseinstellungen aufzuzeichnen und sie Anderen mitzuteilen. Es hilft Ihnen, Ihre Übertaktungsaufzeichnung im Betriebssystem zu speichern und vereinfacht den komplizierten Aufzeichnungsvorgang von Übertaktungseinstellungen. Mit OC DNA können Sie Ihre Übertaktungseinstellungen als Profil abspeichern und Ihren Freunden zugänglich machen! Ihre Freunde können dann das Übertaktungsprofil auf ihren eigenen Systemen laden, um dieselben Übertaktungseinstellungen. Mit OC DNA können Sie Ihre Übertaktungseinstellungen als Profil abspeichern und Ihren Freunden zugänglich machen! Ihre Freunde können dann das Übertaktungsprofil auf ihren eigenen Systemen laden, um dieselben Übertaktungseinstellungen wie Sie zu erhalten! Beachten Sie bitte, dass das Übertaktungsprofil nur bei einem identischen Motherboard gemeinsam genutzt und funktionsfähig gemacht werden kann. Übertaktungseinstellungen wie Sie zu erhalten! Beachten Sie bitte, dass das Übertaktungsprofil nur bei einem identischen Motherboard gemeinsam genutzt und funktionsfähig gemacht werden kann.

10. Wenn Sie nach einer schnelleren, weniger eingeschränkten Möglichkeit zur Aufladung Ihrer Apple-Geräte (z. B. iPhone/iPad/iPod touch) suchen, bietet ASRock Ihnen eine wunderbare Lösung – den ASRock APP Charger. Installieren Sie einfach den ASRock APP Charger-Treiber; dadurch lädt sich Ihr iPhone wesentlich schneller über einen Computer auf – genaugenommen bis zu 40 % schneller als zuvor. Der ASRock APP Charger ermöglicht Ihnen die schnelle Aufladung mehrerer Apple-Geräte gleichzeitig; der Ladevorgang wird sogar dann fortgesetzt, wenn der PC den Ruhezustand (S1), Suspend to RAM-Modus (S3) oder Tiefschlafmodus (S4) aufruft oder ausgeschaltet wird (S5). Nach der Installation des APP Charger-Treibers können Sie im Handumdrehen das großartigste Ladeerlebnis überhaupt genießen. ASRock-Webseite: http://www.asrock.com/Feature/AppCharger/index.asp
11. Obwohl dieses Motherboard stufenlose Steuerung bietet, wird Overclocking nicht empfohlen. Frequenzen, die von den empfohlenen CPU-Busfrequenzen abweichen, können Instabilität des Systems verursachen oder die CPU beschädigen.
12. Wird eine Überhitzung der CPU registriert, führt das System einen automatischen Shutdown durch. Bevor Sie das System neu starten, prüfen Sie bitte, ob der CPU-Lüfter am Motherboard richtig funktioniert, und stecken Sie bitte den Stromkabelstecker aus und dann wieder ein. Um die Wärmeableitung zu verbessern, bitte nicht vergessen, etwas Wärmeleitpaste zwischen CPU und Kühlkörper zu sprühen.
13. EuP steht für Energy Using Product und kennzeichnet die Ökodesign-Richtlinie, die von der Europäischen Gemeinschaft zur Festlegung des Energieverbrauchs von vollständigen Systemen in Kraft gesetzt wurde. Gemäß dieser Ökodesign-Richtlinie (EuP) muss der gesamte Netzstromverbrauch von vollständigen Systemen unter 1,00 Watt liegen, wenn sie ausgeschaltet sind. Um dem EuP-Standard zu entsprechen, sind ein EuP-fähiges Motherboard und eine EuP-fähige Stromversorgung erforderlich. Gemäß einer Empfehlung von Intel muss eine EuP-fähige Stromversorgung dem Standard entsprechen, was bedeutet, dass bei einem Stromverbrauch von 100 mA die 5-Volt-Standby-Energieeffizienz höher als 50% sein sollte. Für die Wahl einer EuP-fähigen Stromversorgung empfehlen wir Ihnen, weitere Details beim Hersteller der Stromversorgung abzufragen.

1.3 Einstellung der Jumper

Die Abbildung verdeutlicht, wie Jumper gesetzt werden. Werden Pins durch Jumperkappen verdeckt, ist der Jumper “gebrückt”. Werden keine Pins durch Jumperkappen verdeckt, ist der Jumper “offen”. Die Abbildung zeigt einen 3-Pin Jumper dessen Pin1 und Pin2 “gebrückt” sind, bzw. es befindet sich eine Jumper-Kappe auf diesen beiden Pins.



Gebrückt Offen

Jumper	Einstellun	
PS2_USB_PW1 (siehe S.2, No. 1)		Überbrücken Sie Pin2, Pin3, um +5VSB (Standby) zu setzen und die PS/2 oder USB-Weckfunktionen zu aktivieren.

Hinweis: Um +5VSB nutzen zu können, muss das Netzteil auf dieser Leitung 2A oder mehr leisten können.

CMOS löschen (CLRCMOS1, 3-Pin jumper) (siehe S.2, No. 14)	 Default-Einstellung	 CMOS löschen

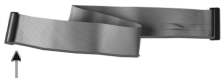
Hinweis: CLRCMOS1 erlaubt Ihnen das Löschen der CMOS-Daten. Diese beinhalten das System-Passwort, Datum, Zeit und die verschiedenen BIOS-Parameter. Um die Systemparameter zu löschen und auf die Werkseinstellung zurückzusetzen, schalten Sie bitte den Computer ab und entfernen das Stromkabel. Benutzen Sie eine Jumperkappe, um die Pin 2 und Pin 3 an CLRCMOS1 für 5 Sekunden kurzzuschließen. Bitte vergessen Sie nicht, den Jumper wieder zu entfernen, nachdem das CMOS gelöscht wurde. Bitte vergessen Sie nicht, den Jumper wieder zu entfernen, nachdem das CMOS gelöscht wurde. Wenn Sie den CMOS-Inhalt gleich nach dem Aktualisieren des BIOS löschen müssen, müssen Sie zuerst das System starten und dann wieder ausschalten, bevor Sie den CMOS-Inhalt löschen.

1.4 Anschlüsse

Anschlussleisten sind KEINE Jumper. Setzen Sie KEINE Jumperkappen auf die Pins der Anschlussleisten. Wenn Sie die Jumperkappen auf die Anschlüsse setzen, wird das Motherboard permanent beschädigt!

Anschluss **Beschreibung**

Anschluss für das Floppy-Laufwerk
(33-Pin FLOPPY1)
(siehe S.2, No. 26)



die rotgestreifte Seite auf Stift 1

Hinweis: Achten Sie darauf, dass die rotgestreifte Seite des Kabel mit der Stift 1-Seite des Anschlusses verbunden wird.

Primärer IDE-Anschluss (blau)
(39-pin IDE1, siehe S.2, No. 9)

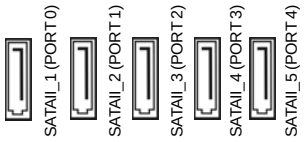
Blauer Anschluss zum Motherboard

Schwarzer Anschluss zur Festplatte

80-adriges ATA 66/100/133 Kabel

Hinweis: Details entnehmen Sie bitte den Anweisungen Ihres IDE-Gerätehändlers.

Seriell-ATAII-Anschlüsse
(SATAII_1 (PORT 0): siehe S.2, No. 21)
(SATAII_2 (PORT 1): siehe S.2, No. 20)
(SATAII_3 (PORT 2): siehe S.2, No. 19)
(SATAII_4 (PORT 3): siehe S.2, No. 18)
(SATAII_5 (PORT 4): siehe S.2, No. 17)



Diese fünf Serial ATA (SATA II) -Anschlüsse unterstützen interne SATA- oder SATA II-Festplatten. Die aktuelle SATAII-Schnittstelle ermöglicht eine Datenübertragungsrate bis 3,0 Gb/s.

Serial ATA- (SATA-) Datenkabel
(Option)

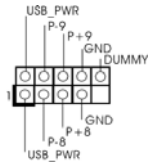
SJedes Ende des SATA Datenkabels kann an die SATA / SATAII Festplatte oder das SATAII Verbindungsstück auf dieser Hauptplatine angeschlossen werden.

Deutsch

USB 2.0-Header

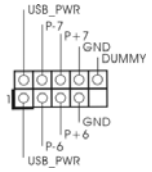
(9-pol. USB8_9)

(siehe S.2 - No. 10)



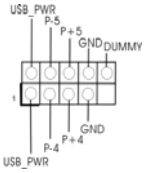
(9-pol. USB6_7)

(siehe S.2 - No. 11)



(9-pol. USB4_5)

(siehe S.2 - No. 12)

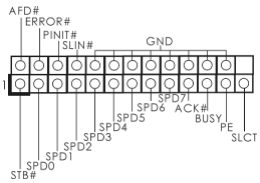


Zusätzlich zu den vier üblichen USB 2.0-Ports an den I/O-Anschlüssen befinden sich drei USB 2.0-Anschlussleisten am Motherboard. Pro USB 2.0-Anschlussleiste werden zwei USB 2.0-Ports unterstützt.

Druckerport-Anschlussleiste

(25-pol. LPT1)

(siehe S.2 - No. 25)

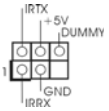


Dies ist eine Schnittstelle zum Anschluss eines Druckerport-Kabels, mit dem Sie passende Drucker auf einfache Weise anschließen können.

Infrarot-Modul-Header

(5-pin IR1)

(siehe S.2 - No. 30)

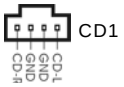


Dieser Header unterstützt ein optionales, drahtloses Sende- und Empfangs-Infrarotmodul.

Interne Audio-Anschlüsse

(4-Pin CD1)

(CD1: siehe S.2, No. 28)

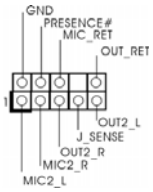


Diese ermöglichen Ihnen Stereo-Signalquellen, wie z. B. CD-ROM, DVD-ROM, TV-Tuner oder MPEG-Karten mit Ihrem System zu verbinden.

Anschluss für Audio auf der Gehäusevorderseite

(9-Pin HD_AUDIO1)

(siehe S.2, No. 29)



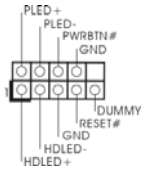
Dieses Interface zu einem Audio-Panel auf der Vorderseite Ihres Gehäuses, ermöglicht Ihnen eine bequeme Kontrolle über Audio-Geräte.

1. High Definition Audio unterstützt Jack Sensing (automatische Erkennung falsch angeschlossener Geräte), wobei jedoch die Bildschirmverdrahtung am Gehäuse HDA unterstützen muss, um richtig zu funktionieren. Beachten Sie bei der Installation im System die Anweisungen in unserem Handbuch und im Gehäusehandbuch.
2. Wenn Sie die AC'97-Audioleiste verwenden, installieren Sie diese wie nachstehend beschrieben an der Front-Audioanschlussleiste:
   A. Schließen Sie Mic_IN (MIC) an MIC2_L an.
   B. Schließen Sie Audio_R (RIN) an OUT2_R und Audio_L (LIN) an OUT2_L an.
   C. Schließen Sie Ground (GND) an Ground (GND) an.
   D. MIC_RET und OUT_RET sind nur für den HD-Audioanschluss gedacht. Diese Anschlüsse müssen nicht an die AC'97-Audioleiste angeschlossen werden.
   E. Rufen Sie das BIOS-Setup-Dienstprogramm auf. Wechseln Sie zu Erweiterte Einstellungen und wählen Sie Chipset-Konfiguration. Setzen Sie die Option Frontleistenkontrolle von [Automatisch] auf [Aktiviert].
   F. Rufen Sie das Windows-System auf. Klicken Sie auf das Symbol in der Taskleiste unten rechts, um den Realtek HD Audio-Manager aufzurufen.
   Für Windows® XP / XP 64-Bit Betriebssystem:
   Klicken Sie auf "Audio-E/A", wählen Sie die "Anschlusseinstellungen"  , wählen Sie "Erkennung der Frontleistenbuchse deaktivieren" und speichern Sie die Änderung durch Klicken auf "OK".
   Für Windows® 7 / 7 64-Bit / Vista™ / Vista™ 64-Bit Betriebssystem:
   Die Rechtoberseite „Dateiordner" Ikone anklicken  , „Schalttafel Buchse Entdeckung sperren" wählen und die Änderung speichern, indem Sie „OKAY" klicken.
   G. Aktivierung des vorderseitigen Mikrofons.
   Für Betriebssystem Windows® XP / XP 64-Bit:
   Wählen Sie "Front Mic" (Vorderes Mikr.) als Standard-Aufnahmegerät. Möchten Sie Ihre Stimme über das vorderseitige Mikrofon hören, dann wählen Sie bitte das Symbol "Mute" (Stumm) unter "Front Mic" (Vorderes Mikr.) im Abschnitt "Playback" (Wiedergabe) ab.
   Für Betriebssystem Windows® 7 / 7 64-Bit / Vista™ / Vista™ 64-Bit:
   Rufen Sie die Registerkarte "Front Mic" (Vorderes Mikr.) im Realtek-Bedienfeld auf. Klicken Sie auf "Set Default Device" (Standardgerät einstellen), um das vorderseitige Mikrofon als Standard-Aufnahmegerät zu übernehmen.

System Panel Anschluss

(9-Pin PANEL1)

(siehe S.2, No. 23)



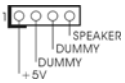
Dieser Anschluss ist für die verschiedenen Funktionen der Gehäusefront.

Deutsch

Gehäuselautsprecher-Header

(4-pin SPEAKER1)

(siehe S.2, No. 22)

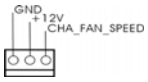


Schließen Sie den Gehäuselautsprecher an diesen Header an.

Gehäuse- und Stromlüfteranschlüsse

(3-pin CHA_FAN1)

(siehe S.2, No. 16)



(3-pin PWR_FAN1)

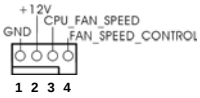
(siehe S.2, No. 13)

Verbinden Sie die Lüfterkabel mit den Lüfteranschlüssen, wobei der schwarze Draht an den Schutzleiterstift angeschlossenwird.

CPU-Lüfteranschluss

(4-pin CPU_FAN1)

(siehe S.2, No. 5)



Verbinden Sie das CPU - Lüfterkabel mit diesem Anschluss und passen Sie den schwarzen Draht dem Erdungsstift an.

Obwohl dieses Motherboard einen vierpoligen CPU-Lüfteranschluss (Quiet Fan) bietet, können auch CPU-Lüfter mit dreipoligem Anschluss angeschlossen werden; auch ohne Geschwindigkeitsregulierung. Wenn Sie einen dreipoligen CPU-Lüfter an den CPU-Lüferanschluss dieses Motherboards anschließen möchten, verbinden Sie ihn bitte mit den Pins 1 – 3.

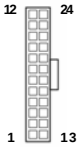
Pins 1–3 anschließen

Lüfter mit dreipoligem Anschluss installieren

ATX-Netz-Header

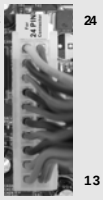
(24-pin ATXPWR1)

(siehe S.2, No. 8)



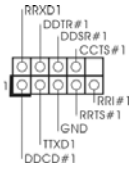
Verbinden Sie die ATX-Stromversorgung mit diesem Header.

Obwohl dieses Motherboard einen 24-pol. ATX-Stromanschluss bietet, kann es auch mit einem modifizierten traditionellen 20-pol. ATX-Netzteil verwendet werden. Um ein 20-pol. ATX-Netzteil zu verwenden, stecken Sie den Stecker mit Pin 1 und Pin 13 ein.



Installation eines 20-pol. ATX-Netzteils

Deutsch

Anschluss für 12V-ATX-Netzteil (4-pin ATX12V1) (siehe S.2, No. 2)		Beachten Sie bitte, dass Sie eine Stromversorgung mit ATX 12-Volt-Stecker mit diesem Anschluss verbinden müssen, damit ausreichend Strom geliefert werden kann. Andernfalls reicht der Strom nicht aus, das System zu starten.
COM-Anschluss-Header (9-pin COM1) (siehe S.2 - No. 27)		Dieser COM-Anschluss-Header wird verwendet, um ein COM-Anschlussmodul zu unterstützen.

Deutsch

2. BIOS-Information

Das Flash Memory dieses Motherboards speichert das Setup-Utility. Drücken Sie <F2> während des POST (Power-On-Self-Test) um ins Setup zu gelangen, ansonsten werden die Testroutinen weiter abgearbeitet. Wenn Sie ins Setup gelangen wollen, nachdem der POST durchgeführt wurde, müssen Sie das System über die Tastenkombination <Ctrl> + <Alt> + <Delete> oder den Reset-Knopf auf der Gehäusevorderseite, neu starten. Natürlich können Sie einen Neustart auch durchführen, indem Sie das System kurz ab- und danach wieder anschalten.
Das Setup-Programm ist für eine bequeme Bedienung entwickelt worden. Es ist ein menügesteuertes Programm, in dem Sie durch unterschiedliche Untermenüs scrollen und die vorab festgelegten Optionen auswählen können. Für detaillierte Informationen zum BIOS-Setup, siehe bitte das Benutzerhandbuch (PDF Datei) auf der Support CD.

3. Software Support CD information

Dieses Motherboard unterstützt eine Reiche von Microsoft® Windows® Betriebssystemen: 7 / 7 64-Bit / Vista™ / Vista™ 64-Bit / XP / XP Media Center / XP 64-Bit. Die Ihrem Motherboard beigefügte Support-CD enthält hilfreiche Software, Treiber und Hilfsprogramme, mit denen Sie die Funktionen Ihres Motherboards verbessern können Legen Sie die Support-CD zunächst in Ihr CD-ROM-Laufwerk ein. Der Willkommensbildschirm mit den Installationsmenüs der CD wird automatisch aufgerufen, wenn Sie die “Autorun”-Funktion Ihres Systems aktiviert haben. Erscheint der Wilkommensbildschirm nicht, so “doppelklicken” Sie bitte auf das File ASSETUP.EXE im BIN-Verzeichnis der Support-CD, um die Menüs aufzurufen. Das Setup-Programm soll es Ihnen so leicht wie möglich machen. Es ist menügesteuert, d.h. Sie können in den verschiedenen Untermenüs Ihre Auswahl treffen und die Programme werden dann automatisch installiert.

1. Introduction

Merci pour votre achat d'une carte mère ASRock ***939A785GMH*** une carte mère très fiable produite selon les critères de qualité rigoureux de ASRock. Elle offre des performances excellentes et une conception robuste conformément à l'engagement d'ASRock sur la qualité et la fiabilité au long terme.
Ce Guide d'installation rapide présente la carte mère et constitue un guide d'installation pas à pas. Des informations plus détaillées concernant la carte mère pourront être trouvées dans le manuel l'utilisateur qui se trouve sur le CD d'assistance.

Les spécifications de la carte mère et le BIOS ayant pu être mis à jour, le contenu de ce manuel est sujet à des changements sans notification. Au cas où n'importe qu'elle modification intervenait sur ce manuel, la version mise à jour serait disponible sur le site web ASRock sans nouvel avis. Vous trouverez les listes de prise en charge des cartes VGA et CPU également sur le site Web ASRock.
Site web ASRock, http://www.asrock.com
Si vous avez besoin de support technique en relation avec cette carte mère, veuillez consulter notre site Web pour de plus amples informations particulières au modèle que vous utilisez.
www.asrock.com/support/index.asp

1.1 Contenu du paquet

Carte mère ASRock ***939A785GMH***
(Facteur de forme Micro ATX: 9.6 pouces x 8.6 pouces, 24.4 cm x 21.8 cm)
Guide d'installation rapide ASRock ***939A785GMH***
CD de soutien ASRock ***939A785GMH***
Deux câble de données Serial ATA (SATA) (Optionnelle)
Un écran I/O

1.2 Spécifications

Format	- Facteur de forme Micro ATX: 9.6 pouces x 8.6 pouces, 24.4 cm x 21.8 cm - Condensateur résistant pour alimentation de processeur
CPU	- Socket 939 prenant en charge le processeur AMD Athlon™ 64FX / 64X2 / 64 - Supporte la technologie Cool 'n' Quiet™ d'AMD - FSB 1000 MHz (2.0 GT/s) - Prend en charge la technologie Untied Overclocking (voir **ATTENTION 1**) - Prise en charge de la technologie Hyper Transport
Chipsets	- Northbridge: AMD 785G - Southbridge: AMD SB710
Mémoire	- Compatible avec la Technologie de Mémoire à Canal Double (voir **ATTENTION 2**) - 4 x slots DIMM DDR - Supporter DDR2 400/333/266 non-ECC, sans amortissement mémoire - Capacité maxi de mémoire système: 4GB (voir **ATTENTION 3**)
Slot d'extension	- 1 x slot PCI Express 2.0 x16 (bleu @ mode x16) - 1 x slot PCI Express 2.0 x1 - 2 x slots PCI - Prend en charge ATI™ Hybrid CrossFireX™
VGA sur carte	- Graphiques intégrés à l'AMD Radeon HD 4200 - DX10.1 classe iGPU, Shader Model 4.1 - mémoire partagée max 512MB (voir **ATTENTION 4**) - Trois options de sortie VGA : D-Sub, DVI-D et HDMI - Prend en charge le HDMI avec une résolution maximale jusqu'à 1920x1200 (1080p) - Prend en charge le DVI Dual-link avec une résolution maximale jusqu'à 2560x1600 @ 75Hz - Prend en charge le D-Sub avec une résolution maximale jusqu'à 2048x1536 @ 60Hz - Prise en charge de la fonction HDCP avec ports DVI et HDMI - Supporter 1080p Blu-ray(BD)/ lecteur de HD-DVD avec ports DVI et HDMI
Audio	- 7.1 Son haute définition de CH (codec audio Realtek ALC888)
LAN	- PCIE x1 Gigabit LAN 10/100/1000 Mb/s - Realtek RTL8111DL - Support du Wake-On-LAN - Support du PXE

Panneau arrière	I/O Panel - 1 x port clavier PS/2 - 1 x port D-Sub - 1 x port DVI-D - 1 x port HDMI - 1 x Port de sortie optique SPDIF - 4 x ports USB 2.0 par défaut - 1 x port eSATA2 - 1 x port LAN RJ-45 avec LED (ACT/LED CLIGNOTANTE et LED VITESSE) - Prise HD Audio: Haut-parleur arrière / Central /Basses / Entrée Ligne / Haut-parleur frontal / Microphone (voir **ATTENTION 5**)
Connecteurs	- 5 x connecteurs SATA2, prennent en charge un taux de transfert de données pouvant aller jusqu'à 3.0Go/s, supporte RAID (RAID 0, RAID 1, RAID 5, RAID 10 et JBOD), NCQ, AHCI et "Hot-Plug" (Connexion à chaud) - 1 x ATA133 IDE connecteurs (prend en charge jusqu'à 2 périphériques IDE) - 1 x Port Disquette - 1 x En-tête du module infrarouge - 1 x En-tête de port COM - 1 x embase de port d'impression - Connecteur pour ventilateur de CPU/Châssis/Ventilateur - br. 24 connecteur d'alimentation ATX - br. 4 connecteur d'alimentation 12V ATX - Connecteurs audio internes - Connecteur audio panneau avant - 3 x En-tête USB 2.0 (prendre en charge 6 ports USB 2.0 supplémentaires)
BIOS	- 8Mb BIOS AMI - BIOS AMI - Support du "Plug and Play" - Compatible pour événements de réveil ACPI 1.1 - Support SMBIOS 2.3.1 - VCCM, NB Tension Multi-ajustement
CD d'assistance	- Pilotes, utilitaires, logiciel anti-virus (version d'évaluation), CyberLink MediaEspresso 6.5 Trial, Suite logicielle ASRock (CyberLink DVD Suite et Version OEM et d'essai; Creative Sound Blaster X-Fi MB - Version d'essai; Suite multimédia ASRock MAGIX - OEM)

Caractéristique unique	- Tuner ASRock OC (voir **ATTENTION 6**) - ASRock Économiseur d'énergie intelligent (voir **ATTENTION 7**) - ASRock l'Instant Boot - ASRock Instant Flash (voir **ATTENTION 8**) - ASRock OC DNA (voir **ATTENTION 9**) - Chargeur ASRock APP (voir **ATTENTION 10**) - L'accélérateur hybride: - Contrôle direct de la fréquence CPU (voir **ATTENTION 11**) - ASRock U-COP (voir **ATTENTION 12**) - Garde d'échec au démarrage (B.F.G.)
Surveillance système	- Contrôle de la température CPU - Mesure de température de la carte mère - Tachéomètre ventilateur CPU/Châssis/Ventilateur - Ventilateur silencieux d'unité centrale - Monitoring de la tension: +12V, +5V, +3.3V, Vcore
OS	- Microsoft® Windows® 7 / 7 64-bit / Vista™ / Vista™ 64-bit / XP / XP Media Center / XP 64-bit
Certifications	- FCC, CE, WHQL - Prêt pour ErP/EuP (alimentation Prêt pour ErP/EuP requise) (voir **ATTENTION 13**)

* Pour de plus amples informations sur les produits, s'il vous plaît visitez notre site web: http://www.asrock.com

ATTENTION

Il est important que vous réalisiez qu'il y a un certain risque à effectuer l'overclocking, y compris ajuster les réglages du BIOS, appliquer la technologie Untied Overclocking, ou utiliser des outils de tiers pour l'overclocking. L'overclocking peut affecter la stabilité de votre système, ou même causer des dommages aux composants et dispositifs de votre système. Si vous le faites, c'est à vos frais et vos propres risques. Nous ne sommes pas responsables des dommages possibles causés par l'overclocking.

ATTENTION!

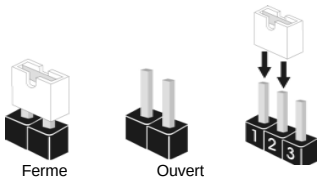
1. Cette carte mère prend en charge la technologie Untied Overclocking. Veuillez lire “La technologie de surcadençage à la volée” à la page 27 pour plus d’informations.
2. Cette carte mère supporte la Technologie de Mémoire à Canal Double. Avant d’intégrer la Technologie de Mémoire à Canal Double, assurez-vous de bien lire le guide d’installation des modules mémoire en page 12 pour réaliser une installation correcte.
3. Du fait des limites du système d’exploitation, la taille mémoire réelle réservée au système pourra être inférieure à 4 Go sous Windows® 7 / Vista™ / XP. Avec Windows® OS avec CPU 64 bits, il n’y a pas ce genre de limitation.
4. La dimension maximum du memoire partage est definie par le vendeur de jeu de puces et est sujet de changer. Veuillez verifier la AMD website pour les informations recentes SVP.
5. Pour l’entrée microphone, cette carte mère supporte les deux modes stéréo et mono. Pour la sortie audio, cette carte mère supporte les modes 2-canaux, 4-canaux, 6-canaux et 8-canaux. Veuillez vous référer au tableau en page 3 pour effectuer la bonne connexion.
6. Il s’agit d’un usage facile ASRock overclocking outil qui vous permet de surveiller votre système en fonction de la monitrice de matériel et overclocker vos périphériques de matériels pour obtenir les meilleures performances du système sous environnement Windows®. S’il vous plaît visitez notre site web pour le fonctionnement des procédures de Tuner ASRock OC.
   ASRock website: http://www.asrock.com
7. Avec une conception matérielle et logicielle propriétaire avancée, Intelligent Energy Saver (L’économiseur d’énergie intelligent) est une technologie révolutionnaire qui apporte des économies d’énergie sans précédent. Le régulateur de tension permet de réduire le nombre de phases de sortie pour améliorer le rendement lorsque les noyaux du CPU sont en veille. En d’autre termes, il peut amener des économies d’énergie exceptionnelles et améliorer le rendement énergétique sans sacrifier aux performances de calcul. Pour utiliser la fonction Intelligent Energy Saver (L’économiseur d’énergie intelligent), veuillez activer l’option Cool ‘n’ Quiet dans l’outil de configuration du BIOS par avance. Veuillez visiter notre site Web pour connaître les procédures d’utilisation de l’ Intelligent Energy Saver (L’économiseur d’énergie intelligent).
   Site Web d’ASRock: http://www.asrock.com

8. O ASRock Instant Flash é um utilitário de flash do BIOS incorporado na memória Flash ROM. Esta prática ferramenta de actualização do BIOS permite-lhe actualizar o BIOS do sistema sem necessitar de entrar nos sistemas operativos, como o MS-DOS ou o Windows®. Com este utilitário, poderá premir a tecla <F6> durante o teste de arranque POST ou premir a tecla <F2> para exibir o menu de configuração do BIOS para aceder ao ASRock Instant Flash. Execute esta ferramenta para guardar o novo ficheiro de BIOS numa unidade flash USB, numa disquete ou num disco rígido, em seguida, poderá actualizar o BIOS com apenas alguns cliques sem ter de utilizar outra disquete ou outro complicado utilitário de flash. Note que a unidade flash USB ou a unidade de disco rígido devem utilizar o sistema de ficheiros FAT32/16/12.
9. Le nom même du logiciel – OC DNA vous indique littéralement ce dont il est capable. OC DNA, utilitaire exclusif développé par ASRock, offre une façon pratique pour l'utilisateur d'enregistrer les paramètres d'overclockage et de les partager avec d'autres. Il vous aide à enregistrer votre overclockage sous le système d'exploitation et simplifie le processus compliqué d'enregistrement des paramètres d'overclockage. Avec OC DNA , vous pouvez enregistrer vos réglages d'overclockage en tant que profil et les partager avec vos amis ! Vos amis peuvent alors charger le profil d'overclockage sur leur propre système pour obtenir les mêmes réglages d'overclockage que les vôtres ! Veuillez noter que le profil d'overclockage peut être partagé et utilisé uniquement sur la même carte mère.
10. Si vous désirez un moyen plus rapide et moins contraignant de recharger vos appareils Apple tels que iPhone/iPod/iPad Touch, ASRock a préparé pour vous la solution idéale - le chargeur ASRock APP. Il suffit d'installer le pilote du chargeur APP, et vous pourrez recharger rapidement votre iPhone à partir de votre ordinateur, jusqu'à 40% plus vite qu'avant. Le chargeur ASRock APP vous permet de charger rapidement et simultanément plusieurs appareils Apple, et le chargement continu est même pris en charge lorsque le PC passe en mode Veille (S1), Suspension à la RAM (S3), hibernation (S4) ou hors tension (S5). Lorsque le pilote du chargeur APP est installé, vous découvrez un mode de mise en charge tout à fait inédit.
    Site web ASRock : http://www.asrock.com/Feature/AppCharger/index.asp
11. Même si cette carte mère offre un contrôle sans souci, il n'est pas recommandé d'y appliquer un over clocking. Les fréquences autres que les fréquences de bus d'UC recommandées risquent de déstabiliser le système ou d'endommager l'UC.

12. Lorsqu'une surchauffe du CPU est détectée, le système s'arrête automatiquement. Avant de redémarrer le système, veuillez vérifier que le ventilateur d'UC sur la carte mère fonctionne correctement et débranchez le cordon d'alimentation, puis rebranchez-le. Pour améliorer la dissipation de la chaleur, n'oubliez pas de mettre de la pâte thermique entre le CPU le dissipateur lors de l'installation du PC.
13. EuP, qui signifie Energy Using Product (Produit Utilisant de l'Energie), est une disposition établie par l'Union Européenne pour définir la consommation de courant pour le système entier. Conformément à la norme EuP, le courant CA total du système entier doit être inférieur à 1 W en mode d'arrêt. Pour être conforme à la norme EuP, une carte mère EuP et une alimentation EuP sont requises. Selon les suggestions d'Intel', l'alimentation électrique EuP doit correspondre à la norme, qui est que l'efficacité électrique de 5v en mode de veille doit être supérieure à 50% pour 100 mA de consommation de courant. Pour choisir une alimentation électrique conforme à la norme EuP, nous vous recommandons de consulter votre fournisseur de courant pour plus de détails.

1.3 Réglage des cavaliers

L'illustration explique le réglage des cavaliers. Quand un capuchon est placé sur les broches, le cavalier est « FERME ». Si aucun capuchon ne relie les broches,le cavalier est « OUVERT ». L'illustration montre un cavalier à 3 broches dont les broches 1 et 2 sont « FERMEES » quand le capuchon est placé sur ces 2 broches.



Le cavalier	Description	
PS2_USB_PW1 (voir p.2 fig. 1)		Court-circuitez les broches 2 et 3 pour choisir +5VSB (standby) et permettre aux périphériques PS/2 ou USB de réveiller le système.

Note: Pour sélectionner +5VSB, il faut obligatoirement 2 Amp et un courant standby supérieur fourni par l'alimentation.

Effacer la CMOS (CLRCMOS1) (voir p.2 fig. 14)		

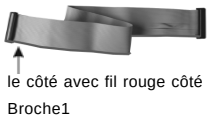
Note: CLRCMOS1 vous permet d'effacer les données qui se trouvent dans la CMOS. Les données dans la CMOS comprennent les informations de configuration du système telles que le mot de passe système, la date, l'heure et les paramètres de configuration du système. Pour effacer et réinitialiser les paramètres du système pour retrouver la configuration par défaut, veuillez mettre l'ordinateur hors tension et débrancher le cordon d'alimentation de l'alimentation électrique. Attendez 15 secondes, puis utilisez un capuchon de cavalier pour court-circuiter la broche 2 et la broche 3 sur CLRCMOS1 pendant 5 secondes. Après avoir court-circuité le cavalier Effacer la CMOS, veuillez enlever le capuchon de cavalier. Toutefois, veuillez ne pas effacer la CMOS tout de suite après avoir mis le BIOS à jour. Si vous avez besoin d'effacer la CMOS lorsque vous avez fini de mettre le BIOS à jour, vous devez d'abord initialiser le système, puis le mettre hors tension avant de procéder à l'opération d'effacement de la CMOS.

1.4 Connecteurs

Les connecteurs NE SONT PAS des cavaliers. NE PLACEZ AUCUN capuchon sur ces connecteurs. Poser les bouchons pour cavaliers audessus des connecteurs provoquera des dommages irrémédiables à la carte mère!

Les connecteurs **Description**

Connecteur du lecteur de disquette
(FLOPPY1 br. 33)
(voir p.2 fig. 26)



Note: Assurez-vous que le côté avec fil rouge du câble est bien branché sur le côté Broche1 du connecteur.

Connecteur IDE primaire (bleu)
(IDE1 br. 39, voir p.2 No. 9)

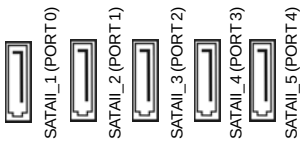
connecteur bleu vers la carte mère

connecteur noir vers le disque dur

Câble ATA 66/100/133 80 conducteurs

Note: Veuillez vous reporter aux instructions du fabricant de votre IDE périphérique pour les détails.

Connecteurs Série ATAII
(SATAII_1 (PORT 0): voir p.2 fig. 21)
(SATAII_2 (PORT 1): voir p.2 fig. 20)
(SATAII_3 (PORT 2): voir p.2 fig. 19)
(SATAII_4 (PORT 3): voir p.2 fig. 18)
(SATAII_5 (PORT 4): voir p.2 fig. 17)



Ces cinq connecteurs Serial ATA (SATAII) prennent en charge les disques durs SATA ou SATAII pour les dispositifs de stockage interne. L'interface SATAII actuelle permet des taux transferts de données pouvant aller jusqu'à 3,0 Go/s.

Câble de données Série ATA (SATA)
(en option)

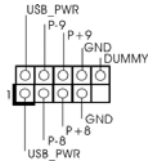
Toute cote du cable de data SATA peut etre connecte au disque dur SATA / SATAII ou au connecteur SATAII sur la carte mere.

Français

En-tête USB 2.0

(USB8_9 br.9)

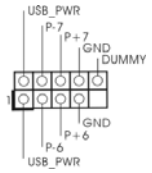
(voir p.2 No. 10)



A côté des quatre ports USB 2.0 par défaut sur le panneau E/S, il y a trois embases USB 2.0 sur cette carte mère. Chaque embase USB 2.0 peut prendre en charge 2 ports USB 2.0.

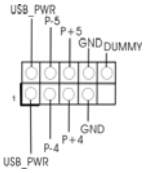
(USB6_7 br.9)

(voir p.2 No. 11)



(USB4_5 br.9)

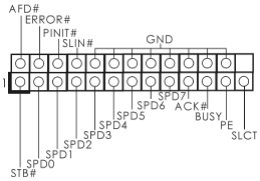
(voir p.2 No. 12)



Embase de port d'impression

(LPT1 25 broches)

(voir p.2 No. 25)

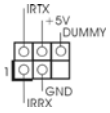


All s'agit d'une interface pour le câble du port d'impression, qui permet le raccordement pratique de périphériques d'impression.

En-tête du module infrarouge

(IR1 br.5)

(voir p.2 No. 30)

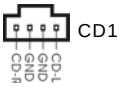


Cet en-tête supporte un module infrarouge optionnel de transfert et de réception sans fil.

Connecteurs audio internes

(CD1 br. 4)

(CD1: voir p.2 fig. 28)

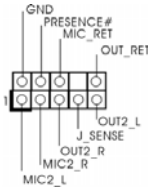


Ils vous permettent de gérer des entrées audio à partir de sources stéréo comme un CD-ROM, DVD-ROM, un tuner TV ou une carte MPEG.

Connecteur audio panneau avant

(HD_AUDIO1 br. 9)

(voir p.2 fig. 29)



C'est une interface pour un câble audio en façade qui permet le branchement et le contrôle commodes de périphériques audio.

Français

1. L'audio à haute définition (HDA) prend en charge la détection de fiche, mais le fil de panneau sur le châssis doit prendre en charge le HDA pour fonctionner correctement. Veuillez suivre les instructions dans notre manuel et le manuel de châssis afin installer votre système.
2. Si vous utilisez le panneau audio AC'97, installez-le sur l'adaptateur audio du panneau avant conformément à la procédure ci-dessous :
   A. Connectez Mic_IN (MIC) à MIC2_L.
   B. Connectez Audio_R (RIN) à OUT2_R et Audio_L (LIN) à OUT2_L.
   C. Connectez Ground (GND) à Ground (GND).
   D. MIC_RET et OUT_RET sont réservés au panneau audio HD. Vous n'avez pas besoin de les connecter pour le panneau audio AC'97.
   E. Entrer dans l'utilitaire de configuration du BIOS. Saisir les Paramètres avancés puis sélectionner Configuration du jeu de puces. Définir l'option panneau de commande de [Auto] à [Activé].
   F. Entrer dans le système Windows. Cliquer sur l'icône sur la barre de tâches dans le coin inférieur droite pour entrer dans le Gestionnaire audio Realtek HD.
   Pour Windows® XP / XP 64-bit OS:
   Cliquer sur « E/S audio», sélectionner « Paramètres du connecteur »

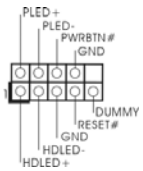
   

   , choisir « Désactiver la détection de la prise du panneau de commande » et sauvegarder les changements en cliquant sur « OK ».
   Pour Windows® 7 / 7 64-bit / Vista™ / Vista™ 64-bit OS:
   Cliquer droit "Fichier" icone  , selectionner" la detection incapable de jack de panel d'avant " et sauvegarder le changement par cliquer"ok".
   G. Pour activer le mic.
   Pour les SE Windows® XP / XP 64 bits :
   Veuillez sélectionner "Front Mic" (Mic. Avant) comme le dispositif d'enregistrement par défaut.
   Si vous voulez entendre votre voix à travers le mic. avant veuillez désactiver l'icône «Silence» dans "Front Mic" (Mic. Avant) de la portion "Playback" (Lecture).
   Pour les SE Windows® 7 / 7 64 bits / Vista™ / Vista™ 64 bits :
   Allez à l'onglet «Front Mic» (Mic. Avant) dans le panneau de commandes Realtek.
   Cliquez sur «Configurer le dispositif par défaut» pour faire du Mic Avant le dispositif d'enregistrement par défaut.

Connecteur pour panneau

(PANEL1 br. 9)

(voir p.2 fig. 23)

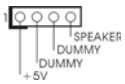


Ce connecteur offre plusieurs fonctions système en façade.

Connecteur du haut-parleur du châssis

(SPEAKER1 br. 4)

(voir p.2 fig. 22)

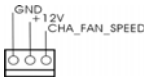


Veuillez connecter le haut-parleur de châssis sur ce connecteur.

Connecteur pour châssis et ventilateur

(CHA_FAN1 br. 3)

(voir p.2 No. 16)



Branchez les câbles du ventilateur aux connecteurs pour ventilateur et faites correspondre le fil noir à la broche de terre.

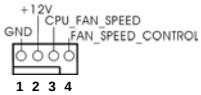
(PWR_FAN1 br. 3)

(voir p.2 No. 13)

Connecteur pour ventilateur CPU

(CPU_FAN1 br. 4)

(voir p.2 fig. 5)



Veuillez connecter un câble de ventilateur d'UC sur ce connecteur et brancher le fil noir sur la broche de terre.

ien que cette carte mère offre un support de (Ventilateur silencieux) ventilateur de CPU à 4 broches , le ventilateur de CPU à 3 broches peut bien fonctionner même sans la fonction de commande de vitesse du ventilateur. Si vous prévoyez de connecter le ventilateur de CPU à 3 broches au connecteur du ventilateur de CPU sur cette carte mère, veuillez le connecter aux broches 1-3.

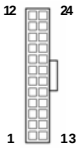
Installation de ventilateur à 3 broches

Broches 1-3 connectées

Connecteur d'alimentation ATX

(ATXPWR1 br. 24)

(voir p.2 fig. 8)

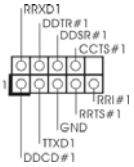


Veuillez connecter une unité d'alimentation ATX sur ce connecteur.

Bien que cette carte mère fournisse un connecteur de courant ATX 24 broches, elle peut encore fonctionner si vous adopter une alimentation traditionnelle ATX 20 broches. Pour utiliser une alimentation ATX 20 broches, branchez à l'alimentation électrique ainsi qu'aux broches 1 et 13.

20-Installation de l'alimentation électrique ATX

Français

Connecteur d'alimentation 12V ATX (ATX12V1 br. 4) (voir p.2 fig. 2)		Veuillez noter qu'il est nécessaire de connecter une unité d'alimentation électrique avec prise ATX 12V sur ce connecteur afin d'avoir une alimentation suffisante. Faute de quoi, il ne sera pas possible de mettre sous tension.
En-tête de port COM (COM1 br.9) (voir p.2 No. 27)		Cette en-tête de port COM est utilisée pour prendre en charge un module de port COM.

2. Informations sur le BIOS

La puce Flash Memory sur la carte mère stocke le Setup du BIOS. Lorsque vous démarrez l'ordinateur, veuillez presser <F2> pendant le POST (Power-On-Self-Test) pour entrer dans le BIOS; sinon, le POST continue ses tests de routine. Si vous désirez entrer dans le BIOS après le POST, veuillez redémarrer le système en pressant <Ctl> + <Alt> + <Suppr>, ou en pressant le bouton de reset sur le boîtier du système. Vous pouvez également redémarrer en éteignant le système et en le rallumant. L'utilitaire d'installation du BIOS est conçu pour être convivial. C'est un programme piloté par menu, qui vous permet de faire défiler par ses divers sous-menus et de choisir parmi les choix prédéterminés. Pour des informations détaillées sur le BIOS, veuillez consulter le Guide de l'utilisateur (fichier PDF) dans le CD technique.

3. Informations sur le CD de support

Cette carte mère supporte divers systèmes d'exploitation Microsoft® Windows®: 7 / 7 64 bits / Vista™ / Vista™ 64 bits / XP / XP Media Center / XP 64 bits. Le CD technique livré avec cette carte mère contient les pilotes et les utilitaires nécessaires pour améliorer les fonctions de la carte mère. Pour utiliser le CD technique, insérez-le dans le lecteur de CD-ROM. Le Menu principal s'affiche automatiquement si "AUTORUN" est activé dans votre ordinateur. Si le Menu principal n'apparaît pas automatiquement, localisez dans le CD technique le fichier "ASSETUP.EXE" dans le dossier BIN et double-cliquez dessus pour afficher les menus.

1. Introduzione

Grazie per aver scelto una scheda madre ASRock ***939A785GMH***, una scheda madre affidabile prodotta secondo i severi criteri di qualità ASRock. Le prestazioni eccellenti e il design robusto si conformano all'impegno di ASRock nella ricerca della qualità e della resistenza. Questa Guida Rapida all'Installazione contiene l'introduzione alla motherboard e la guida passo-passo all'installazione. Informazioni più dettagliate sulla motherboard si possono trovare nel manuale per l'utente presente nel CD di supporto.

Le specifiche della scheda madre e il software del BIOS possono essere aggiornati, pertanto il contenuto di questo manuale può subire variazioni senza preavviso. Nel caso in cui questo manuale sia modificato, la versione aggiornata sarà disponibile sul sito di ASRock senza altro avviso. Sul sito ASRock si possono anche trovare le più recenti schede VGA e gli elenchi di CPU supportate.
ASRock website http://www.asrock.com
Se si necessita dell'assistenza tecnica per questa scheda madre, visitare il nostro sito per informazioni specifiche sul modello che si sta usando.
www.asrock.com/support/index.asp

1.1 Contenuto della confezione

Scheda madre ASRock ***939A785GMH***
(Micro ATX Form Factor: 9.6-in x 8.6-in, 24.4 cm x 21.8 cm)
Guida di installazione rapida ASRock ***939A785GMH***
CD di supporto ASRock ***939A785GMH***
Due cavo dati Serial ATA (SATA) (Opzionale)
Un I/O Shield

1.2 Specifiche

Piattaforma	- Micro ATX Form Factor: 9.6-in x 8.6-in, 24.4 cm x 21.8 cm - Condensatore solido per alimentazione CPU
Processore	- Presa 939 che supporta processore AMD Athlon™ 64FX / 64X2 / 64 - Supporto tecnologia AMD Cool 'n' Quiet™ - FSB 1000 MHz (2.0 GT/s) - Supporta la tecnologia overclocking "slegata" (vedi **ATTENZIONE 1**) - Supporta la tecnologia Hyper-Transport
Chipset	- Northbridge: AMD 785G - Southbridge: AMD SB710
Memoria	- Supporto tecnologia Dual Channel Memory (vedi **ATTENZIONE 2**) - 4 x slot DDR DIMM - Supporto DDR 400/333/266 non-ECC, momoria senza buffer - Capacità massima della memoria di sistema: 4GB (vedi **ATTENZIONE 3**)
Slot di espansione	- 1 x slot PCI Express 2.0 x16 (blu a modalità x16) - 1 x slot PCI Express 2.0 x1 - 2 x slot PCI - Supporto di ATI™ Hybrid CrossFireX™
VGA su scheda	- Grafica AMD Radeon HD 4200 integrata - iGPU classe DX10.1, Shader Model 4.1 - Memoria massima condivisa 512MB (vedi **ATTENZIONE 4**) - Tre opzioni d'output VGA: D-Sub, DVI-D e HDMI - Supporta HDMI con risoluzione massima fino a 1920x1200 (1080p) - Supporta DVI Dual-link con risoluzione massima fino a 2560x1600 @ 75Hz - Supporta D-Sub con risoluzione massima fino a 2048x1536 @ 60Hz - Supporto della funzione HDCP con le porte DVI e HDMI - Supporto 1080p Blu-ray (BD) / HD-DVD riproduzione con le porte DVI e HDMI
Audio	- 7.1 Audio HD CH (Realtek ALC888 Audio Codec)
LAN	- PCIE x1 Gigabit LAN 10/100/1000 Mb/s - Realtek RTL8111DL - Supporta Wake-On-LAN - Supporta PXE

Pannello posteriore I/O	I/O Panel - 1 x porta PS/2 per tastiera - 1 x Porta D-Sub - 1 x Porta DVI-D - 1 x Porta HDMI - 1 x Porta ottica SPDIF Out - 4 x porte USB 2.0 già integrate - 1 x porta eSATA2 - 1 x porte LAN RJ-45 con LED (LED azione/collegamento e LED velocità) - Connettore HD Audio: cassa posteriore / cassa centrale / bassi / ingresso linea / cassa frontale / microfono (vedi **ATTENZIONE 5**)
Connettori	- 5 x connettori SATA2 3.0Go/s, sopporta RAID (RAID 0, RAID 1, RAID 5, RAID 10 e JBOD), NCQ, AHCI e “Collegamento a caldo” - 1 x connettori ATA133 IDE (supporta fino a 2 dispositivi IDE) - 1 x porta Floppy - 1 x Collettore modulo infrarossi - 1 x collettore porta COM - 1 x Collettore porta stampante - Connettore CPU/Chassis/Alimentazione ventola - 24-pin collettore alimentazione ATX - 4-pin connettore ATX 12V - Connettori audio interni - Connettore audio sul pannello frontale - 3 x Collettore USB 2.0 (supporta 6 porte USB 2.0)
BIOS	- 8Mb AMI BIOS - Suppor AMI legal BIOS - Supporta “Plug and Play” - Compatibile con ACPI 1.1 wake up events - Supporta SMBIOS 2.3.1 - Regolazione multi-voltaggio VCCM, NB
CD di supporto	- Driver, Utilità, Software AntiVirus (versione di prova), CyberLink MediaEspresso 6.5 Trial, Suite software ASRock (Suite CyberLink DVD OEM e Versione demo; Creative Sound Blaster X-Fi MB - Versione demo; Suite multimediale ASRock MAGIX - OEM)
Caratteristi-ca speciale	- Sintonizzatore ASRock OC (vedi **ATTENZIONE 6**) - ASRock Intelligent Energy Saver (ASRock Risparmio intelligente dell’energia) (vedi **ATTENZIONE 7**) - ASRock Instant Boot - ASRock Instant Flash (vedi **ATTENZIONE 8**) - ASRock OC DNA (vedi **ATTENZIONE 9**)

	- Caricatore ASRock APP Charger (vedi **ATTENZIONE 10**) - Booster ibrido: - Stepless control per frequenza del processore (vedi **ATTENZIONE 11**) - ASRock U-COP (vedi **ATTENZIONE 12**) - Boot Failure Guard (B.F.G.)
Monitor-aggio Hardware	- Sensore per la temperatura del processore - Sensore temperatura scheda madre - Indicatore di velocita per la ventola del CPU/Chassis/ Alimentazione - Ventola CPU silenziosa - Voltaggio: +12V, +5V, +3.3V, Vcore
Compatibi-lità SO	- Microsoft® Windows® 7 / 7 64 bit / Vista™ / Vista™ 64 bit / XP / Centro multimediale XP / XP 64 bit
Certificazioni	- FCC, CE, WHQL - Predisposto ErP/EuP (è necessaria l'alimentazione predisposta per il sistema ErP/EuP) (vedi **ATTENZIONE 13**)

* Per ulteriori informazioni, prego visitare il nostro sito internet: http://www.asrock.com

AVVISO

Si prega di prendere atto che la procedura di overclocking implica dei rischi, come anche la regolazione delle impostazioni del BIOS, l'applicazione della tecnologia Untied Overclocking Technology, oppure l'uso di strumenti di overclocking forniti da terzi. L'overclocking può influenzare la stabilità del sistema, ed anche provocare danni ai componenti ed alle periferiche del sistema. La procedura è eseguita a proprio rischio ed a proprie spese. Noi non possiamo essere ritenuti responsabili per possibili danni provocati dall'overclocking.

ATTENZIONE!

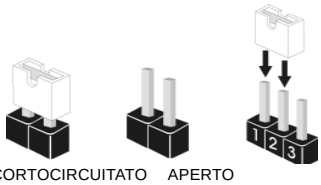
1. Questa scheda madre supporta la tecnologia overclocking “slegata”. Per i dettagli leggere “Tecnologia di Untied Overclocking” a pagina 27.
2. Questa scheda madre supporta la tecnologia Dual Channel Memory. Prima di implementare la tecnologia Dual Channel Memory, assicurarsi di leggere la guida all’installazione dei moduli di memoria, a pagina 12, per seguire un’installazione appropriata.
3. A causa delle limitazioni del sistema operativo, le dimensioni effettive della memoria possono essere inferiori a 4GB per l’accantonamento riservato all’uso del sistema sotto Windows® 7 / Vista™ / XP. Per Windows® OS con CPU 64-bit, non c’è tale limitazione.
4. La dimensione massima della memoria condivisa viene stabilita dal venditore del chipset ed e‘ soggetta a modificazioni. Prego fare riferimento al sito internet AMD per le ultime informazioni.
5. Questa scheda madre supporta l’ingresso stereo e mono per il microfono. Questa scheda madre supporta le modalità 2 canali, 4 canali, 6 canali e 8 canali per l’uscita audio. Controllare la tavola a pagina 3 per eseguire il collegamento appropriato.
6. Si tratta di uno strumento di sicronizzazione ASRock di face uso in grado di implementare il controllo del sistema tramite la funzione di hardware monitor e sincronizzare le Vostre unita‘ hardware per ottenere la migliore prestazione in Windows®. Prego visitare il nostro sito Internet per ulteriori dettagli circa l‘uso del Sintonizzatore ASRock OC.
   ASRock website: http://www.asrock.com
7. Grazie ad un innovative hardware proprietario ed alla progettazione specifica del software, Intelligent Energy Saver (Risparmio intelligente dell’energia), è una tecnologia rivoluzionaria che consente di realizzare risparmi energetici senza pari. Il regolatore di tensione è in grado di ridurre il numero di fasi in uscita in modo da migliorare l’efficienza quando i nuclei della CPU sono inattivi. In alter parole, permette di realizzare risparmi energetica senza pari e di migliorare l’efficienza energetica senza ridurre le prestazioni del computer. Per usare la funzione Intelligent Energy Saver (Risparmio intelligente dell’energia), attivare l’opzione Cool ‘n’ Quiet nella configurazione avanzata del BIOS. Si prega di visitare il nostro sito Internet per le procedure di funzionamento dell’Intelligent Energy Saver (Risparmio intelligente dell’energia).
   Sito Internet di ASRock: http://www.asrock.com

8. ASRock Instant Flash è una utilità Flash BIOS integrata nella Flash ROM. Questo comodo strumento d'aggiornamento del BIOS permette di aggiornare il sistema BIOS senza accedere a sistemi operativi come MS-DOS or Windows®. Con questa utilità, si può premere il tasto <F6> durante il POST, oppure il tasto <F2> nel menu BIOS per accedere ad ASRock Instant Flash. Avviare questo strumento e salvare il nuovo file BIOS nell'unità Flash USB, dischetto (disco floppy) o disco rigido; poi si può aggiornare il BIOS con pochi clic, senza preparare altri dischetti (dischi floppy) o altre complicate utilità Flash. Si prega di notare che l'unità Flash USB o il disco rigido devono usare il File System FAT32/16/12.
9. Il nome stesso del software – OC DNA – dice di cosa è capace. OC DNA, una utilità esclusiva sviluppata da ASRock, fornisce un modo comodo per registrare le impostazioni OC e condividerle con gli altri. Aiuta a salvare le registrazioni di overclocking nel sistema operativo e semplifica la complicata procedura di registrazione delle impostazioni di overclocking. Con OC DNA, puoi salvare le impostazioni OC come un profilo da condividere con gli amici! I tuoi amici possono scaricare il profilo OC sul loro sistema operativo per ottenere le tue stesse impostazioni OC! Si prega di notare che il profilo OC può essere condiviso e modificato solo sulla stessa scheda madre.
10. Se vuoi un modo rapido e indipendente per caricare i dispositivi Apple, come iPhone/iPod/iPad Touch, ASRock ha preparato una soluzione meravigliosa: ASRock APP Charger. Basta installare il driver APP Charger per caricare l'iPhone più rapidamente rispetto al computer, con una velocità maggiore del 40%. ASRock APP Charger permette di caricare simultaneamente molti dispositivi Apple in modo rapido e supporta anche il caricamento continuato quando il PC accede alla modalità di Standby (S1), Sospensione su RAM (S3), Ibernazione (S4) o Spegnimento (S5). Una volta installato il driver APP Charger si otterranno prodigi e comodità mai avuti prima.
    Sito ASRock: http://www.asrock.com/Feature/AppCharger/index.asp
11. Anche se questa motherboard offre il controllo stepless, non si consiglia di effettuare l'overclocking. L'uso di frequenze diverse da quelle raccomandate per il bus CPU possono provocare l'instabilità del sistema o danneggiare la CPU.
12. Se il processore si surriscalda, il sistema si chiude automaticamente. Prima di riavviare il sistema, assicurarsi che la ventolina CPU della scheda madre funzioni correttamente; scollegare e ricollegare il cavo d'alimentazione. Per migliorare la dissipazione del calore, ricordare di applicare l'apposita pasta siliconica tra il processore e il dissipatore quando si installa il sistema.

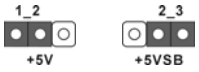
13. EuP, che sta per Energy Using Product (Prodotto che consuma energia) , era una normativa emanata dall'Unione Europea che definiva il consumo energetico del sistema completo. In base all'EuP, l'alimentazione totale del sistema completo deve essere inferiore a 1,00 W quando è spento. Per soddisfare la norma EuP sono necessari un alimentatore e una scheda elettrica predisposti EuP. In base ai suggerimenti Intel l'alimentatore predisposto EuP deve soddisfare lo standard secondo cui l'efficienza energetica in standby di 5 v è più alta del 50% con un consumo di corrente di 100 mA. Per la scelta di un'alimentatore predisposto EuP consigliamo di verificare ulteriori dettagli con il produttore.

1.3 Setup dei Jumpers

L'illustrazione mostra come sono settati i jumper. Quando il ponticello è posizionato sui pin, il jumper è "CORTOCIRCUITATO". Se sui pin non ci sono ponticelli, il jumper è "APERTO". L'illustrazione mostra un jumper a 3 pin in cui il pin1 e il pin2 sono "CORTOCIRCUITATI" quando il ponticello è posizionato su questi pin.



CORTOCIRCUITATO APERTO

Jumper	Settaggio del Jumper	
PS2_USB_PW1 (vedi p.2 item 1)		Cortocircuitare pin2, pin3 per settare a +5VSB (standby) e abilitare PS/2 o USB wake up events.

Nota: Per selezionare +5VSB, si richiedono almeno 2 Ampere e il consumo di corrente in standby sarà maggiore.

Resettare la CMOS (CLRCMOS1) (vedi p.2 item 14)	 Impostazione predefinita Azzeramento CMOS	

Nota: CLRCMOS1 permette di cancellare i dati presenti nel CMOS. I dati del CMOS comprendono le informazioni di configurazione quali la password di sistema, data, ora, e i parametri di configurazione del sistema. Per cancellare e ripristinare i parametri del sistema, spegnere il computer e togliere il cavo di alimentazione dalla presa di corrente. Dopo aver lasciato trascorrere 15 secondi, utilizzare un cappuccio jumper per cortocircuitare i pin 2 e 3 su CLRCMOS1 per 5 secondi. Dopo aver cortocircuitato il jumper Clear CMOS jumper, togliere il terminatore jumper. Non cancellare la CMOS subito dopo aver aggiornato il BIOS. Se è necessario cancellare la CMOS una volta completato l'aggiornamento del BIOS, è necessario riavviare prima il sistema, e poi spegnerlo prima di procedere alla cancellazione della CMOS.

1.4 Connettori

I connettori NON sono jumpers. NON COLLOCARE i ponticelli sui connettori. Installando dei cappucci a ponticello sui connettori si causeranno danni permanenti alla scheda madre!

Connettori	Descrizione dei connettori

Connettore del Floppy disk
(33-pin FLOPPY1)
(vedi p.2 item 26)

Lato del Pin1 con la striscia rossa

Nota: Assicurarsi che il lato del cavo con la striscia rossa sia inserito nel lato Pin1 del connettore.

Connettore IDE primario (blu)
(39-pin IDE1, vedi p.2 Nr. 9)

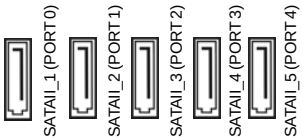
Connettore blu alla schedamadre

Connettore nero all'hard disk drive

Cavo ATA 66/100/133 a 80 Pin

Nota: Fate riferimento alle istruzioni del produttore del dispositivo IDE per maggiori dettagli.

Connettori Serial ATAII
(SATAII_1 (PORT 0):
vedi p.2 Nr. 21)
(SATAII_2 (PORT 1):
vedi p.2 Nr. 20)
(SATAII_3 (PORT 2):
vedi p.2 Nr. 19)
(SATAII_4 (PORT 3):
vedi p.2 Nr. 18)
(SATAII_5 (PORT 4):
vedi p.2 Nr. 17)



Questi cinque connettori Serial ATA (SATAII) supportano le periferiche di archiviazione HD SATA o SATAII per le funzioni di archiviazione interna. ATAII (SATAII) supportano cavi SATAII per dispositivi di memoria interni. L'interfaccia SATAII attuale permette velocità di trasferimento dati fino a 3.0 Gb/s.

Cavi dati Serial ATA (SATA)
(Opzionale)

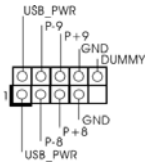
Una o altra estremità del cavo di dati SATA può essere collegata al disco rigido SATA / SATAII o al connettore di SATAII su questa cartolina base.

Italiano

Collettore USB 2.0

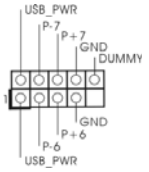
(9-pin USB8_9)

(vedi p.2 No. 10)



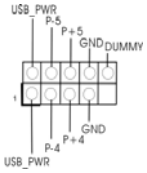
(9-pin USB6_7)

(vedi p.2 No. 11)



(9-pin USB4_5)

(vedi p.2 No. 12)

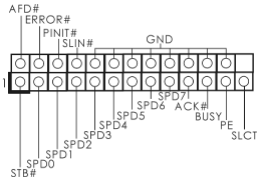


Oltre alle quattro porte USB 2.0 predefinite nel pannello I/O, la scheda madre dispone di tre intestazioni USB 2.0. Ciascuna intestazione USB 2.0 supporta due porte USB 2.0.

Collettore porta stampante

(LPT1 25 pin)

(vedi p.2 No. 25)

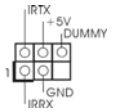


Questa è un'interfaccia per il cavo porta stampante che consente di collegare, con comodità, dispositivi di stampa.

Collettore modulo infrarossi

(5-pin IR1)

(vedi p.2 Nr. 30)

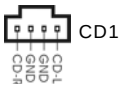


Questo collettore supporta moduli ad infrarossi optional per la trasmissione e la ricezione senza fili.

Connettori audio interni

(4-pin CD1)

(CD1: vedi p.2 item 28)

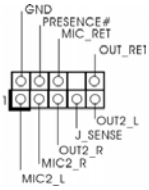


Permettono di ricevere input stereo audio da fonti di suono come CD-ROM, DVD - ROM,TV tuner, o schede MPEG.

Connettore audio sul pannello frontale

pin HD_AUDIO1)

(vedi p.2 item 29)



È un'interfaccia per il cavo del pannello audio. Che consente (9-connessione facile e controllo dei dispositivi audio.

Italiano

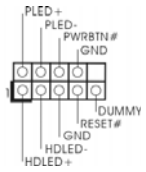
1. La caratteristica HDA (High Definition Audio) supporta il rilevamento dei connettori, però il pannello dei cavi sul telaio deve supportare la funzione HDA (High Definition Audio) per far sì che questa operi in modo corretto. Attenersi alle istruzioni del nostro manuale e del manuale del telaio per installare il sistema.
2. Se si utilizza un pannello audio AC'97, installarlo nell'intestazione audio del pannello anteriore, come indicato di seguito:
   A. Collegare Mic_IN (MIC) a MIC2_L.
   B. Collegare Audio_R (RIN) a OUT2_R e Audio_L (LIN) ad OUT2_L.
   C. Collegare Ground (GND) a Ground (GND).
   D. MIC_RET e OUT_RET sono solo per il pannello audio HD. Non è necessario collegarli per il pannello audio AC'97.
   E. Entrare nel programma di impostazione BIOS. Entrare su Impostazioni avanzate, quindi selezionare Configurazione chipset. Impostare l'opzione Comando pannello anteriore da [Auto] a [Attivato].
   F. Entrare nel sistema di Windows. Fare clic sull'icona situata nell'angolo inferiore destro della barra delle applicazioni per entrare su Realtek HD Audio Manager.
   Per Windows® XP / XP 64-bit OS:
   Fare clic su "Audio I/O", selezionare "Impostazioni connettore"  , scegliere "Disattiva rilevazione presa pannello anteriore" e salvare la modifica facendo clic su "OK".
   Per Windows® 7 / 7 64-bit / Vista™ / Vista™ 64-bit OS:
   Cliccare sull'icona in alto a destra "Folder" ("Cartella")  , selezionare "Disable front panel jack detection" "Disabilitare individuazione presa pannello frontale") e cliccare "OK" per memorizzare.
   G. Per attivare il microfono anteriore.
   Per il sistema operativo Windows® XP / XP 64-bit:
   Selezionare "Microfono anteriore" come dispositivo predefinito per la registrazione. Per ascoltare la propria voce tramite il microfono anteriore, deselezionare l'icona "Muto" in "Microfono anteriore" di "Riproduzione".
   Per il sistema operative Windows® 7 / 7 64-bit / Vista™ / Vista™ 64-bit:
   Andare alla scheda "Microfono anteriore" nel pannello di controllo d i Realtek. Fare clic su "Imposta dispositivo predefinito" per impostare il microfono anteriore come dispositivo predefinito per la registrazione.

Italiano

Connettore del panello frontale

(9-pin PANEL1)

(vedi p.2 item 23)

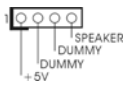


Questo connettore accoglie diverse funzioni del pannello frontale.

Collettore casse telaio

(4-pin SPEAKER1)

(vedi p.2 item 22)



Collegare le casse del telaio a questo collettore.

Collettori Chassis ed alimentazione ventola

(3-pin CHA_FAN1)

(vedi p.2 Nr. 16)

(3-pin PWR_FAN1)

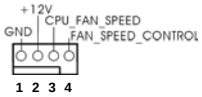
(vedi p.2 Nr. 13)

Collegare i cavi della ventola ai corrispondenti connettori facendo combaciare il cavo nero col pin di terra.

Connettore ventolina CPU

(4-pin CPU_FAN1)

(vedi p.2 item 5)



Collegare il cavo della ventolina CPU a questo connettore e far combaciare il filo nero al pin terra.

Sebbene la presente scheda madre disponga di un supporto per ventola CPU a 4 piedini (ventola silenziosa), la ventola CPU a 3 piedini è in grado di funzionare anche senza la funzione di controllo della velocità della ventola. Se si intende collegare la ventola CPU a 3 piedini al connettore della ventola CPU su questa scheda madre, collegarla ai piedini 1-3.

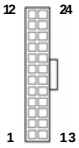
Piedini 1-3 collegati ←

Installazione della ventola a 3 piedini

Collettore alimentazione ATX

(24-pin ATXPWR1)

(vedi p.2 item 8)



Collegare la sorgente d'alimentazione ATX a questo collettore.

Con questa scheda madre, c'è in dotazione un connettore elettrico ATX a 24 pin, ma può funzionare lo stesso se si adotta un alimentatore ATX a 20 pin. Per usare l'alimentatore ATX a 20 pin, collegare l'alimentatore con il Pin 1 e il Pin 13.

Installazione dell'alimentatore ATX a 20 pin

Connettore ATX 12V

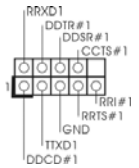
(4-pin ATX12V1)

(vedi p.2 item 2)

È necessario collegare una alimentazione con spinotto da 12V ATX a questo connettore in modo che possa fornire energia sufficiente. In caso contrario l'unità non si avvia.

Italiano

Collettore porta COM
(9-pin COM1)
(voir p.2 Nr. 27)



Questo collettore porta COM è utilizzato per supportare il modulo porta COM.

2. Informazioni sul BIOS

La Flash Memory sulla scheda madre contiene le Setup Utility. Quando si avvia il computer, premi <F2> durante il Power-On-Self-Test (POST) della Setup utility del BIOS; altrimenti, POST continua con i suoi test di routine. Per entrare il BIOS Setup dopo il POST, riavvia il sistema premendo <Ctl> + <Alt> + <Delete>, o premi il tasto di reset sullo chassis del sistema. El BIOS Setup Utility es diseñádo “user-friendly”. Es un programa guido al menu, es decir, puede enrollarse a sus varios su-menues y elegir las opciones predeterminadas. Per informazioni più dettagliate circa il Setup del BIOS, fare riferimento al Manuale dell’Utente (PDF file) contenuto nel cd di supporto.

3. Software di supporto e informazioni su CD

Questa scheda madre supporta vari sistemi operativi Microsoft® Windows®: 7 / 7 64 bit / Vista™ / Vista™ 64 bit / XP / Centro multimediale XP / XP 64 bit. Il CD di supporto a corredo della scheda madre contiene i driver e utilità necessari a potenziare le caratteristiche della scheda. Inserire il CD di supporto nel lettore CD-ROM. Se la funzione “AUTORUN” è attivata nel computer, apparirà automaticamente il Menù principale. Se il Menù principale non appare automaticamente, posizionarsi sul file ASSETUP.EXE nel CESTINO del CD di supporto e cliccare due volte per visualizzare i menù.

1. Introducción

Gracias por su compra de ASRock ***939A785GMH*** placa madre, una placa de confianza producida bajo el control de calidad estricto y persistente. La placa madre provee realización excelente con un diseño robusto conforme al compromiso de calidad y resistencia de ASRock.

Esta Guía rápida de instalación contiene una introducción a la placa base y una guía de instalación paso a paso. Puede encontrar una información más detallada sobre la placa base en el manual de usuario incluido en el CD de soporte.

Porque las especificaciones de la placa madre y el software de BIOS podrían ser actualizados, el contenido de este manual puede ser cambiado sin aviso. En caso de cualquier modificación de este manual, la versión actualizada estará disponible en el website de ASRock sin previo aviso. También encontrará las listas de las últimas tarjetas VGA y CPU soportadas en la página web de ASRock.

Website de ASRock http://www.asrock.com

Si necesita asistencia técnica en relación con esta placa base, visite nuestra página web con el número de modelo específico de su placa.

www.asrock.com/support/index.asp

1.1 Contenido de la caja

Placa base ASRock ***939A785GMH***

(Factor forma Micro ATX: 24,4 cm x 21,8 cm, 9,6” x 8,6”)

Guía de instalación rápida de ASRock ***939A785GMH***

CD de soporte de ASRock ***939A785GMH***

Dos Cable de Datos Serial ATA (SATA) (Opcional)

Una protección I/O

1.2 Especificación

Plataforma	- Factor forma Micro ATX: 24,4 cm x 21,8 cm, 9,6" x 8,6" - Condensador sólido para alimentación de CPU
Procesador	- Socket de 939 con soporte para procesador AMD Athlon™ 64FX / 64X2 / 64 - Con soporte para tecnología Cool 'n' Quiet™ de AMD - FSB 1000 MHz (2.0 GT/s) - Admite tecnología de aumento de velocidad liberada (vea **ATENCIÓN 1**) - Soporta Tecnología de Hiper-Transporte
Chipset	- North Bridge: AMD 785G - South Bridge: AMD SB710
Memoria	- Soporte de Tecnología de Memoria de Doble Canal (ver **ATENCIÓN 2**) - 4 x DDR DIMM slots - Apoya DDR 400/333/266 non-ECC, memoria de un-buffered - Máxima capacidad de la memoria del sistema: 4GB (vea **ATENCIÓN 3**)
Ranuras de Expansión	- 1 x ranuras PCI Express 2.0 x16 (azul @ modo x16) - 1 x ranura PCI Express 2.0 x1 - 2 x ranuras PCI - Soporta ATI™ Hybrid CrossFireX™
VGA OnBoard	- Tarjeta gráfica integrada AMD Radeon HD 4200 - iGPU de clase DX10.1, Shader Model 4.1 - 512MB de Memoria máxima compartida (vea **ATENCIÓN 4**) - Tres opciones de salida VGA: D-Sub, DVI-D y HDMI - Admite HDMI con una resolución máxima de 1920x1200 (1080p) - Admite conexiones DVI Dual-link con una resolución máxima de 2560x1600 @ 75 Hz - Admite D-Sub con una resolución máxima de 2048x1536 a 60 Hz - Admite la función HDCP con puertos DVI y HDMI - Apoya la reproducción de Blu-rayo de 1080p (BD) / HD-DVD con puertos DVI y HDMI
Audio	- Sonido HD de 7.1 Canales (Códec de sonido Realtek ALC888)
LAN	- PCIE x1 Gigabit LAN 10/100/1000 Mb/s - Realtek RTL8111DL - Soporta Wake-On-LAN - Soporta PXE

Entrada/Salida de Panel Trasero	I/O Panel - 1 x puerto de teclado PS/2 - 1 x puerto D-Sub - 1 x puerto DVI-D - 1 x puerto HDMI - 1 x puerto de salida óptica SPDIF - 4 x puertos USB 2.0 predeterminados - 1 x puerto eSATA2 - 1 x Puerto LAN RJ-45 con LED (LED de ACCIÓN/ENLACE y LED de VELOCIDAD) - Conexión de audio: Altavoz trasero / Central/Bajos / Entrada de línea / Altavoz frontal / Micrófono (ver **ATENCIÓN 5**)
Conectores	- 5 x conexiones SATA2, admiten una velocidad de transferencia de datos de hasta 3,0Gb/s, soporta RAID (RAID 0, RAID 1, RAID 5, RAID 10 y JBOD), NCQ, AHCI y "Conexión en caliente" - 1 x ATA133 conexiones IDE (admite hasta 2 dispositivos IDE) - 1 x puerto Floppy - 1 x Cabezal de Módulo Infrarrojos - 1x En-tête de port COM - 1 x cabecera de puerto de impresora - Conector de ventilador de CPU / chasis / alimentacion - 24-pin cabezal de alimentación ATX - 4-pin conector de ATX 12V power - Conector de Audio Interno - Conector de audio de panel frontal - 3 x Cabezal USB 2.0 (admite 6 puertos USB 2.0 adicionales)
BIOS	- 8Mb AMI BIOS - AMI legal BIOS - Soporta "Plug and Play" - ACPI 1.1 compliance wake up events - Soporta SMBIOS 2.3.1 - Múltiple ajuste de VCCM, NB Voltage
CD de soport	- Controladores, utilidades, software de antivirus (versión de prueba), Prueba de CyberLink MediaEspresso 6.5, conjunto de aplicaciones ASRock (CyberLink DVD Suite - OEM y versión de prueba; Creative Sound Blaster X-Fi MB - versión de prueba; Conjunto multimedia ASRock MAGIX - OEM)

Característica Única	- Sintonizador de ASRock OC (vea **ATENCIÓN 6**) - ASRock Administrador de energía inteligente (vea **ATENCIÓN 7**) - ASRock Instant Boot - ASRock Instant Flash (vea **ATENCIÓN 8**) - ASRock OC DNA (vea **ATENCIÓN 9**) - ASRock APP Charger (vea **ATENCIÓN 10**) - Amplificador Híbrido: - Stepless control de frecuencia de CPU (vea **ATENCIÓN 11**) - ASRock U-COP (vea **ATENCIÓN 12**) - Protección de Falla de Inicio (B.F.G..)
Monitor Hardware	- Sensibilidad a la temperatura del procesador - Sensibilidad a la temperatura de la placa madre - Taquimetros de los ventiladores del procesador y del CPU / chasis / alimentacion - Ventilador silencioso para procesador - Monitor de Voltaje: +12V, +5V, +3.3V, Vcore
OS	- En conformidad con Microsoft® Windows® 7 / 7 64 bits / Vista™ / Vista™ 64 bits / XP / XP Media Center / XP 64 bits
Certificaciones	- FCC, CE, WHQL - Cumple con la directiva ErP/EuP (se requiere una fuente de alimentación que cumpla con la directiva ErP/EuP) (vea **ATENCIÓN 13**)

* Para más información sobre los productos, por favor visite nuestro sitio web: http://www.asrock.com

ADVERTENCIA

Tenga en cuenta que hay un cierto riesgo implícito en las operaciones de aumento de la velocidad del reloj, incluido el ajuste del BIOS, aplicando la tecnología de aumento de velocidad liberada o utilizando las herramientas de aumento de velocidad de otros fabricantes. El aumento de la velocidad puede afectar a la estabilidad del sistema e, incluso, dañar los componentes y dispositivos del sistema. Esta operación se debe realizar bajo su propia responsabilidad y Ud. debe asumir los costos. No asumimos ninguna responsabilidad por los posibles daños causados por el aumento de la velocidad del reloj.

ATENCIÓN!

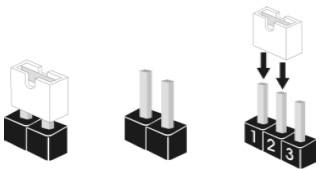
1. Esta placa base admite la tecnología de aumento de velocidad liberada. Por favor lea “Tecnología de Forzado de Reloj (Overclocking) no relacionado” en la página 27 para obtener detalles.
2. Esta placa base soporta Tecnología de Memoria de Doble Canal. Antes de implementar la Tecnología de Memoria de Doble Canal, asegúrese de leer la guía de instalación de módulos de memoria en la página 12 para su correcta instalación.
3. Debido a las limitaciones del sistema, el tamaño real de la memoria debe ser inferior a 4GB para que el sistema pueda funcionar bajo Windows® 7 / Vista™ / XP. Para equipos con Windows® OS con CPU de 64-bit, no existe dicha limitación.
4. El tamaño de la memoria compartido máximo es definido por el vendedor del chipset y está conforme al cambio. Por favor compruebe el Web site de AMD para la información más última.
5. Para la entrada de micrófono, esta placa madre ofrece soporte para modos estéreo y mono. Para salida de audio, este placa madre ofrece soporte para modos de 2 canales, 4 canales, 6 canales y 8 canales. Consulte la tabla en la página 3 para una conexión correcta.
6. Es una herramienta de overclocking de ASRock de usuario-fácil que le permite a supervisar su sistema por la función de monitor de hardware y overclock sus dispositivos de hardware para obtener el mejor funcionamiento del sistema bajo el entorno de Windows®. Por favor visite nuestro sitio web para los procedimientos de operación de Sintonizador de ASRock OC.
   Sitio web de ASRock: http://www.asrock.com
7. Gracias a su avanzado hardware de propietario y diseño de software, Intelligent Energy Saver (Economizador de energía inteligente) es una revolucionaria tecnología que ofrece un ahorro de energía sin igual. El regulador de voltaje permite reducir el número de fases de salida para mejorar la eficiencia cuando los núcleos de la CPU están inactivos. En otras palabras, permite ofrecer un ahorro excepcional de energía y mejorar la eficiencia energética sin sacrificar el rendimiento del equipo. Para utilizar la función Intelligent Energy Saver (Economizador de energía inteligente) , active la opción Cool ‘n’ Quiet en la configuración de BIOS. Visite nuestro sitio web para conocer los procedimientos de uso de Intelligent Energy Saver (Economizador de energía inteligente).
   Sitio web de ASRock: http://www.asrock.com

8. ASRock Instant Flash es una utilidad de programación del BIOS que se encuentra almacenada en la memoria Flash ROM. Esta sencilla herramienta de actualización de BIOS le permitirá actualizar el BIOS del sistema sin necesidad de acceder a ningún sistema operativo, como MS-DOS o Windows®. Gracias a esta utilidad, sólo necesitará pulsar <F6> durante la fase POST o pulsar <F2> para acceder al menú de configuración del BIOS y a la utilidad ASRock Instant Flash. Ejecute esta herramienta y guarde el archivo correspondiente al sistema BIOS nuevo en su unidad flash USB, unidad de disco flexible o disco duro para poder actualizar el BIOS con sólo pulsar un par de botones, sin necesidad de preparar un disco flexible adicional ni utilizar complicadas utilidades de programación. Recuerde que
   la unidad flash USB o disco duro utilizado debe disponer del sistema de archivos FAT32/16/12.
9. El nombre del propio software, OC DNA, indica con claridad aquello de lo que es capaz. OC DNA, una exclusiva utilidad desarrollada por ASRock, representa para el usuario una forma cómoda de grabar su configuración de OC y compartirla con otras personas. Esta utilidad le permitirá guardar sus registros de aceleración en el sistema operativo y simplificar el complicado proceso de grabación de la configuración de aceleración. ¡Gracias a OC DNA podrá guardar su configuración de OC como perfil y compartirlo con sus amigos! ¡Sus amigos podrán cargar entonces el perfil de OC en su propio sistema y disfrutar de la configuración de OC creada por usted! Recuerde que el perfil de OC creado sólo funcionará en placas base similares, por lo que sólo podrá compartirlo con usuarios que cuenten con la misma placa base que usted.
10. Si desea una forma más rápida y menos limitada de cargar sus dispositivos de Apple; como por ejemplo iPhone, iPod o iPad Touch, ASRock ha creado una fantástica solución para usted: ASRock APP Charger. Simplemente mediante la instalación del controlador de APP Charger, podrá cargar su iPhone de forma mucho más rápida que antes, hasta un 40%, desde su equipo. ASRock APP Charger le permite cargar de forma rápida muchos dispositivos de Apple simultáneamente e incluso podrá continuar la carga cuando su PC entre en modo de espera (S1), suspendido en RAM (S3), modo de hibernación (S4) o se apague (S5). Una vez instalado el controlador de APP Charger, podrá disfrutar fácilmente de una fantástica carga sin precedentes.
    Sitio web de ASRock: http://www.asrock.com/Feature/AppCharger/index.asp
11. Aunque esta placa base ofrece un control complete, no es recomendable forzar la velocidad. Las frecuencias de bus de la CPU distintas a las recomendadas pueden causar inestabilidad en el sistema o dañar la CPU.

12. Cuando la temperatura de CPU está sobre-elevada, el sistema va a apagarse automaticamente. Antes de reanudar el sistema, compruebe si el ventilador de la CPU de la placa base funciona apropiadamente y desconecte el cable de alimentación, a continuación, vuelva a conectarlo. Para mejorar la disipación de calor, acuérdese de aplicar thermal grease entre el procesador y el disipador de calor cuando usted instala el sistema de PC.
13. EuP, siglas de Energy Using Product (Producto que Utiliza Energía), es una disposición regulada por la Unión Europea para establecer el consumo total de energía de un sistema. Según la disposición EuP, la alimentación de CA total para el sistema completo ha de ser inferior a 1,00W en modo apagado. Para cumplir con el estándar EuP, se requieren una placa base y una fuente de alimentación que cumplan con la directiva EuP. Según las directrices de Intel, una fuente de alimentación que cumpla con la directiva EuP debe satisfacer el estándar, es decir, la eficiencia de energía de 5v en modo de espera debería ser mayor del 50% con un consumo de corriente de 100mA. Para seleccionar una fuente de alimentación que cumpla la directiva EuP, le recomendamos que consulte con el fabricante de la fuente de alimentación para obtener más detalles.

1.3 Setup de Jumpers

La ilustración muestra como los jumpers son configurados. Cuando haya un jumper-cap sobre los pins, se dice gue el jumper está "Short". No habiendo jumper cap sobre los pins, el jumper está "Open". La ilustración muesta un jumper de 3 pins cuyo pin 1 y pin 2 están "Short".



Short Open

Jumper	Setting	
PS2_USB_PW1 (vea p.2, No. 1)		Ponga en cortocircuito pin 2, pin 3 para habilitar +5VSB (standby) para PS/2 o USB wake up events.

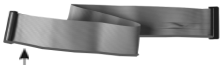
Atención: Para elegir +5VSB, se necesita corriente mas que 2 Amp proveida por la fuente de electricidad.

Limpiar CMOS (CLRCMOS1, jumper de 3 pins) (ver p.2, No. 14)	 Valor predeterminado / Restablecimiento de la CMOS	

Atención: CLRCMOS1 permite que Usted limpie los datos en CMOS. Los datos en CMOS incluyen informaciones de la configuración del sistema, tales como la contraseña del sistema, fecha, tiempo, y parámetros de la configuración del sistema. Para limpiar y reconfigurar los parametros del sistema a la configuración de la fábrica, por favor apague el computador y desconecte el cable de la fuente de electricidad, utilice una cubierta de jumper para aislar las agujas pin2 y pin3 en CLRCMOS1 durante 5 segundos. Por favor acuérdase de quitar el jumper cap después de limpiar el COMS. Por favor acuérdase de quitar el jumper cap después de limpiar el COMS. Si necesita borrar la CMOS cuando acabe de finalizar la actualización de la BIOS, debe arrancar primero el sistema y, a continuación, apagarlo antes de realizar la acción de borrado de CMOS.

1.4 Conectores

Los conectores no son jumpers. Por favor no ponga jumper caps sobre los conectores. El colocar cubiertas de puentes sobre los conectores provocará un daño permanente en la placa base.

Conector	Figure	Descripción
Conector de disquetera (33-pin FLOPPY1) (vea p.2, No. 26)		 la banda roja debe quedar en el mismo lado que el contacto 1

Atención: Asegúrese que la banda roja del cable queda situado en el mismo lado que el contacto 1 de la conexión.

IDE conector primario (azul) (39-pin IDE1, vea p.2, No. 9)

Conector azul a placa madre

Conector negro a aparato IDE

Cable ATA 66/100/133 de conducción 80

Atención: Consulte las instrucciones del distribuidor del dispositivo IDE para conocer los detalles.

Conexiones de serie ATAII (SATAII_1 (PORT 0): vea p.2, No. 21) (SATAII_2 (PORT 1): vea p.2, No. 20) (SATAII_3 (PORT 2): vea p.2, No. 19) (SATAII_4 (PORT 3): vea p.2, No. 18) (SATAII_5 (PORT 4): vea p.2, No. 17)

Estos cinco conectores de la Serie ATA (SATAII) soportan HDDs SATA o SATAII para dispositivos de almacenamiento interno. La interfaz SATAII actual permite una velocidad de transferencia de 3.0 Gb/s.

Cable de datos de serie ATA (SATA) (Opcional)

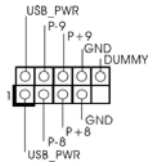
Cualquier extremo del cable de los datos de SATA puede ser conectado con el disco duro de SATA / SATAII o el conectador de SATAII en esta placa base.

Español

Cabezal USB 2.0

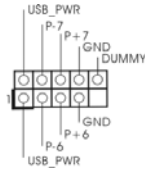
(9-pin USB8_9)

(ver p.2, No. 10)



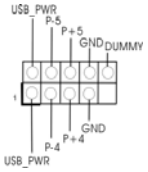
(9-pin USB6_7)

(ver p.2, No. 11)



(9-pin USB4_5)

(ver p.2, No. 12)

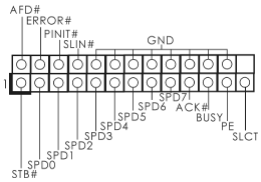


Además de cuatro puertos USB 2.0 predeterminados en el panel de E/S, hay tres bases de conexiones USB 2.0 en esta placa base. Cada una de estas bases de conexiones admite dos puertos USB 2.0.

Cabecera de puerto de impresora

(LPT1 de 25 terminales)

(vea p.2, N. 25)

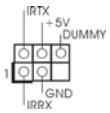


Esta es una interfaz de puerto para cable de impresora que permite conectar cómodamente dispositivos de impresión.

Cabezal de Módulo Infrarrojos

(5-pin IR1)

(vea p.2, N. 30)

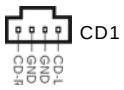


Este cabezal soporta un módulo infrarrojos de transmisión y recepción wireless opcional.

Conector de Audio Interno

(4-pin CD1)

(CD1: vea p.2, No. 28)

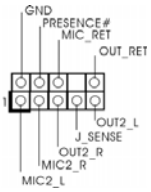


Permite recepción de input audio de fuente sónica como CD-ROM, DVD-ROM, TV tuner, o tarjeta MPEG.

Conector de audio de panel frontal

(9-pin HD_AUDIO1)

(vea p.2, No. 29)



Este es una interface para cable de audio de panel frontal que permite conexión y control conveniente de apparatos de Audio.

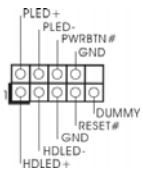
Español

1. El Audio de Alta Definición soporta la detección de conector, pero el cable de panel en el chasis debe soportar HDA para operar correctamente. Por favor, siga las instrucciones en nuestro manual y en el manual de chasis para instalar su sistema.
2. Si utiliza el panel de sonido AC'97, instálelo en la cabecera de sonido del panel frontal de la siguiente manera:
   A. Conecte Mic_IN (MIC) a MIC2_L.
   B. Conecte Audio_R (RIN) a OUT2_R y Audio_L (LIN) en OUT2_L.
   C. Conecte Ground (GND) a Ground (GND).
   D. MIC_RET y OUT_RET son sólo para el panel de sonido HD. No necesitará conectarlos al panel de sonido AC'97.
   E. Entre en la Utilidad de configuración del BIOS Entre en Configuración avanzada y, a continuación, seleccione Configuración del conjunto de chips. En el panel de control frontal cambie la opción [Automático] a [Habilitado].
   F. Entre en el sistema Windows. Haga clic en el icono de la barra de tareas situada en la parte inferior derecha para entrar en el Administrador de audio HD Realtek.
   Para Windows® XP / XP 64-bit OS:
   Haga clic en "E/S de audio", seleccione "Configuración de conectores"  , elija "Deshabilitar la detección del conector del panel frontal" y guarde el cambio haciendo clic en "Aceptar".
   Para Windows® 7 / 7 64-bit / Vista™ / Vista™ 64-bit OS:
   Haga el clic el icono de la "Carpeta" de derecho-superior  , eliga "Inhabilitable la detección del gato del panel delantero" y ahorre el cambio por chascando "OK".
   G. Para activar el micrófono frontal.
   Para Windows® XP / XP 64-bit OS:
   Seleccione "Micrófono frontal" como el dispositivo de grabación predeterminado. Si desea escuchar su propia voz a través del micrófono frontal, anule la selección del icono «Activar silencio» en "Micrófono frontal" de la sección "Reproducción".
   Para Windows® 7 / 7 64-bit / Vista™ / Vista™ 64-bit OS:
   Vaya a la ficha «Micrófono central» en el panel Control de Realtek. Haga clic en «Establecer dispositivo predeterminado» para convertir el micrófono central en el dispositivo de grabación predeterminado.

Conector del Panel del systema

(9-pin PANEL1)

(vea p.2, No. 23)



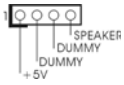
Este conector acomoda varias funciones de panel frontal del systema.

Español

Cabezal del altavoz del chasis

(4-pin SPEAKER1)

(vea p.2, No. 22)

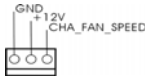


Conecte el altavoz del chasis a su cabezal.

Conectores de ventilador de chasis y alimentación

(3-pin CHA_FAN1)

(vea p.2, N. 16)



(3-pin PWR_FAN1)

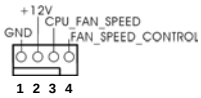
(vea p.2, N. 13)

Por favor, conecte los cables del ventilador a los conectores de ventilador, haciendo coincidir el cable negro con la patilla de masa.

Conector del ventilador de la CPU

(4-pin CPU_FAN1)

(vea p.2, No. 5)



Conecte el cable del ventilador de la CPU a este conector y haga coincidir el cable negro con el conector de tierra.

Aunque esta placa base proporciona compatibilidad para un ventilador (silencioso) de procesador de 4 contactos, el ventilador de procesador de 3 contactos seguirá funcionando correctamente incluso sin la función de control de velocidad del ventilador. Si pretende enchufar el ventilador de procesador de 3 contactos en el conector del ventilador de procesador de esta placa base, conéctelo al contacto 1-3.

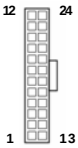
Contacto 1-3 conectado

Instalación del ventilador de 3 contactos

Cabezal de alimentación ATX

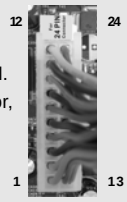
(24-pin ATXPWR1)

(vea p.2, No. 8)



Conecte la fuente de alimentación ATX a su cabezal.

A pesar de que esta placa base incluye in conector de alimentación ATX de 24 pins, ésta puede funcionar incluso si utiliza una fuente de alimentación ATX de 20 pins tradicional. Para usar una fuente de alimentación ATX de 20 pins, por favor, conecte su fuente de alimentación usando los Pins 1 y 13.



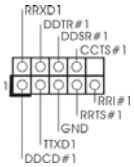
Instalación de una Fuente de Alimentación ATX de 20 Pins

Conector de ATX 12V power

(4-pin ATX12V1)

(vea p.2, No. 2)

Tenga en cuenta que es necesario conectar este conector a una toma de corriente con el enchufe ATX 12V, de modo que proporcione suficiente

		electricidad. De lo contrario no se podrá encender.
Cabezal del puerto COM (9-pin COM1) (vea p.2, No. 27)		Este cabezal del puerto COM se utiliza para admitir un módulo de puerto COM.

2. BIOS Información

El Flash Memory de la placa madre deposita SETUP Utility. Durante el Power-Up (POST) apriete <F2> para entrar en la BIOS. Sí usted no oprime ninguna tecla, el POST continúa con sus rutinas de prueba. Si usted desea entrar en la BIOS después del POST, por favor reinicie el sistema apretando <Ctl> + <Alt> + <Borrar>, o apretando el botón Reset en el panel del ordenador. El programa SETUP esta diseñado a ser lo mas fácil posible. Es un programa guiado al menu, es decir, puede enrollarse a sus varios sub-menues y elegir las opciones predeterminadas. Para información detallada sobre como configurar la BIOS, por favor refiérase al Manual del Usuario (archivo PDF) contenido en el CD.

3. Información de Software Support CD

Esta placa-base soporta diversos tipos de sistema operativo Windows®: 7 / 7 64 bits / Vista™ / Vista™ 64 bits / XP / XP Media Center / XP 64 bits El CD de instalación que acompaña la placa-base trae todos los drivers y programas utilitarios para instalar y configurar la placa-base. Para iniciar la instalación, ponga el CD en el lector de CD y se desplegará el Menú Principal automáticamente si «AUTORUN» está habilitado en su computadora. Si el Menú Principal no aparece automáticamente, localice y doble-pulse en el archivo ASSETUP.EXE para iniciar la instalación.

1. Введение

Благодарим вас за покупку материнской платы ASRock ***939A785GMH*** надежной материнской платы, изготовленной в соответствии с постоянно предъявляемыми ASRock жесткими требованиями к качеству. Она обеспечивает превосходную производительность и отличается отличной конструкцией, которые отражают приверженность ASRock качеству и долговечности.

Данное руководство по быстрой установке включает вводную информацию о материнской плате и пошаговые инструкции по ее установке. Более подробные сведения о плате можно найти в руководстве пользователя на компакт-диске поддержки.

Спецификации материнской платы и программное обеспечение BIOS иногда изменяются, поэтому содержание этого руководства может обновляться без уведомления. В случае любых модификаций руководства его новая версия будет размещена на веб-сайте ASRock без специального уведомления. Кроме того, самые свежие списки поддерживаемых модулей памяти и процессоров можно найти на сайте ASRock.

Адрес веб-сайта ASRock http://www.asrock.com

При необходимости технической поддержки по вопросам данной материнской платы посетите наш веб-сайт для получения информации об используемой модели.

www.asrock.com/support/index.asp

1.1 Комплектность

Материнская плата ASRock ***939A785GMH***

(форм-фактор Micro ATX: 9,6 x 8,6 дюйма / 24,4 x 21,8 см)

Руководство по быстрой установке ASRock ***939A785GMH***

Компакт-диск поддержки ASRock ***939A785GMH***

2 x кабель данных Serial ATA (SATA) (дополнительно)

1 x щиток ввода-вывода I/O

1.2 Спецификации

Платформа	- форм-фактор Micro ATX: 9,6 x 8,6 дюйма / 24,4 x 21,8 см - Твердотельный конденсатор в цепи питания процессора
Процессор	- Поддержка процессоров AMD с разъемами Socket 939: AMD Athlon™ 64FX / 64X2 / 64 - Поддержка технологии AMD Cool 'n' Quiet™ - FSB 1000 MHz (2.0 GT/s) - Поддержка технологии Untied Overclocking (см. **ОСТОРОЖНО. пункт 1**) - Поддержка технологии Hyper-Transport
Набор микросхем	- Северный мост: AMD 785G - Южный мост: AMD SB710
Память	- Поддержка технологии Dual Channel DDR Memory Technology (см. **ОСТОРОЖНО. пункт 2**) - 4 x гнезда DDR DIMM - Поддержите DDR 400/333/266 не- ECC, безбуферная память - Макс. 4 Гб (см. **ОСТОРОЖНО. пункт 3**)
Гнезда расширения	- 1 x гнезда PCI Express 2.0 x16 (Синий в режиме x16) - 1 x гнезда PCI Express 2.0 x1 - 2 x гнезда PCI - Поддерживает ATI™ Hybrid CrossFireX™
Графика	- Встроенный видеоадаптер AMD Radeon HD 4200 - iGPU класса DX10.1, Shader Model 4.1 - Макс. объем разделяемой памяти 512Мб (см. **ОСТОРОЖНО. пункт 4**) - Три VGA-выхода: D-Sub, DVI-D и HDMI - Поддержка HDMI с максимальным разрешением до 1920x1200 (1080p) - Поддержка Dual-link DVI с максимальным разрешением до 2560x1600 @ 75 Гц - Поддержка D-Sub с максимальным разрешением до 2048x1536 @ 60 Гц - Поддержка функции HDCP через разъемы DVI и HDMI - Подержат Blu-луч 1080p (КОММУТАЦИОННАЯ ДОСКА) / воспроизведение HD-DVD через разъемы DVI и HDMI
Аудиосистема	- 7.1-канальный звук HD Audio уровня (аудиокодек Realtek Realtek ALC888)
ЛВС	- PCIE x 1 Gigabit LAN 10/100/1000 Mb/s - Realtek RTL8111DL - поддержка Wake-On-LAN - поддержка PXE
Разъемы ввода-вывода на задней панели	I/O Panel - 1 x порт клавиатуры PS/2 - 1 x D-Sub порт - 1 x DVI-D порт - 1 x HDMI порт

	- 1 x порт Optical SPDIF Out - 4 x порта USB 2.0 на задней панели в стандартной конфигурации - 1 x eSATA2 порт - Разъем 1 x RJ-45 LAN с светодиодным индикатором (индикатор ACT/LINK и индикатор SPEED) - Соединитель звуковой подсистемы: тыльная колонка / центральная / субвуфер / линейный вход / передняя колонка / микрофон (см. **ПРЕДУПРЕЖДЕНИЕ 5**)
Колодки и плате	- 5 x разъема Serial ATA2 3,0 Гбит/с, поддержка функций RAID (RAID 0, RAID 1, RAID 5, RAID 10 и JBOD), NCQ, AHCI и “Hot-Plug” (горячее подключение) - 1 x разъема ATA133 IDE (Поддерживает до 2 устройств IDE) - 1 x Порт гибкого диска - 1 x Колодка инфракрасного модуля - 1 x Колодка COM - 1 x Разъем порта печати - соединитель: CPU/Chassis/Power FAN - 24-контактный Колодка питания ATX - 4-контактный Разъем ATX 12 B - Внутренние аудиоразъемы - Аудиоразъем передней панели - 3 x Колодка USB 2.0 (одна колодка для поддержки 6 дополнительных портов USB 2.0
BIOS	- 8Mb AMI BIOS - Лицензированная AMI BIOS - поддержка “Plug and Play” - ACPI 1.1, включение по событиям - поддержка SMBIOS 2.3.1 - Регулировка напряжений VCCM, NB
Компактдиск поддержки	- Драйверы, утилиты, антивирусное программное обеспечение (Пробный Вариант), CyberLink MediaEspresso 6.5 пробные версии; пакет ASRock Software Suite (CyberLink DVD Suite - OEM и пробные версии; Creative Sound Blaster X-Fi MB; ASRock MAGIX Multimedia Suite - OEM) (OEM и пробные версии)
Уникальная Особенность	- ASRock OC Tuner (см. **ОСТОРОЖНО, пункт 6**) - ASRock Intelligent Energy Saver (см. **ОСТОРОЖНО, пункт 7**) - ASRock Instant Boot - ASRock Instant Flash (см. **ОСТОРОЖНО, пункт 8**) - ASRock OC DNA (см. **ОСТОРОЖНО, пункт 9**) - ASRock APP Charger (см. **ОСТОРОЖНО, пункт 10**) - Hybrid Booster: - плавная настройка частоты процессора (см. **ОСТОРОЖНО, пункт 11**) - ASRock U-COP (см. **ОСТОРОЖНО, пункт 12**) - Защита от сбоев загрузки Boot Failure Guard (B.F.G)

Контроль оборудо-вания	- Датчики температуры процессора - Датчики температуры корпуса - Тахометры вентиляторов CPU/Chassis/Power FAN - функция тихого режима вентилятора - Контроль= напряжения: +12V, +5V, +3.3V, Vcore
Операцион	- Совместимость с Microsoft® Windows® 7 / 7 64-bit / Vista™ / Поддержка 64-разрядной версии Vista™ / XP / XP Media Center / XP 64-bit
ные системы Сертифика-ты	- FCC, CE, WHQL - Совместимость с eRp/EuP Ready (требуется блок питания совместимый с eRp/EuP) (см. **ОСТОРОЖНО, пункт 13**)

* Для детальной информации продукта, пожалуйста посетите наш вебсайт: http://www.asrock.com

ВНИМАНИЕ

Следует понимать, что с оверклокингом связан определенный риск во всех случаях, включая изменение установок BIOS, применение технологии Untied Overclocking или использование инструментов оверклокинга сторонних производителей. Оверклокинг может повлиять на стабильность работы системы и даже вызвать повреждение входящих в нее компонентов и устройств. Приступая к оверклокингу, вы полностью берете на себя все связанные с ним риски и расходы. Мы не будем нести ответственность за любые возможные повреждения в результате оверклокинга.

ОСТОРОЖНО!

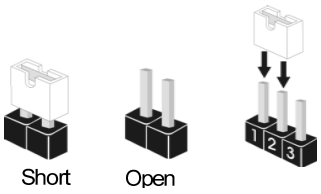
1. Данная системная плата поддерживает технологию раздельного разгона (повышения частоты системной шины). Подробные сведения см. в разделе «Технология раздельного разгона» на стр. 27.
2. Данная материнская плата поддерживает технологию двухканальной памяти Dual Channel Memory Technology. Перед ее использованием не забудьте прочитать инструкции по правильной установке модулей памяти в руководстве по установке (стр. 12).
3. В силу ограничения операционной системы фактическая емкость памяти может быть меньше 4Гб для обеспечения резервного места для использования системой Windows® 7 / Vista™ / XP. Таких ограничений нет для Windows® OS с 64-bit центральным процессором.
4. Максимальная совместная емкость памяти определена продавцем микропроцессорного набора и может измениться. Входите в AMD веб-сайт за последние информации, пожалуйста.
5. Поддерживается работа микрофонного входа в режимах моно и стерео. Поддерживаются 2-, 4-, 6- и 8-канальный режимы вывода звука. Соответствующие схемы подключения описаны на стр. 3.

6. Это - легкий в использовании ASRock разгон инструмент, который позволяет, что Вы, чтобы рассмотреть вашу систему монитором аппаратных средств функционируете и сверххронометрируете ваши устройства аппаратных средств, чтобы получить лучшую работу системы под окружающей средой Windows -. Пожалуйста посетите наш вебсайт для порядков работы Блока настройки ОКЕАНА ASRock. Вебсайт ASRock: http: // www.asrock.com
7. Благодаря передовым фирменным аппаратным и программным решениям интеллектуальная система энергосбережения представляет собой революционную технологию, обеспечивающую беспрецедентную экономию энергии. Стабилизатор напряжения может сокращать число выходных фаз, для улучшения эффективности при простое ядер ЦП. Другими словами, он может обеспечить исключительную экономию энергии и повысить эффективность ее использования без уменьшения производительности. Для использования интеллектуальной системы энергосбережения необходимо предварительно включить функцию Cool 'n' Quiet в настройке BIOS. Инструкции по использованию интеллектуальной системы энергосбережения приводятся на нашем веб-сайте.
   Веб-сайт ASRock: http://www.asrock.com
8. ASRock Instant Flash – программа для прошивки BIOS, встроенная в Flash ROM. Данное средство для обновления BIOS умеет работать без входа в операционные системы, вроде MS-DOS или Windows®. Чтобы запустить программу достаточно нажать <F6> во время самотестирования системы (POST) или войти в BIOS при помощи кнопки <F2> и выбрать пункт ASRock Instant Flash через меню. Запустите программу и сохраните новый BIOS на USB-флэшку, дискету или жесткий диск. После этого вы сможете оперативно обновить BIOS, без необходимости подготовки дополнительной дискеты, без установки программы прошивки. Имейте в виду, что USB-флэшка или винчестер должны использовать файловую систему FAT32/16/12.
9. Название утилиты OC DNA говорит само за себя. OC DNA – эксклюзивная утилита, разработанная компанией ASRock, которая дает возможность пользователю легко и просто записывать свои настройки разгона и делиться ими с друзьями. OC DNA позволяет сохранить настройки разгона под операционной системой, что существенно упрощает жизнь пользователя. С помощью OC DNA вы можете сохранить свои настройки разгона в виде профиля. После чего вы можете его переслать своим друзьям, и уже ваш друг сможет использовать ваш профиль на своей системе! Внимание, записанные профили будут работать только на одинаковых моделях материнских плат.

10. Если вы хотите быстрее и без ограничений заряжать свои устройства Apple, например iPhone, iPod и iPad Touch, компания ASRock приготовила отличное решение для вас – ASRock APP Charger. Просто установив драйвер APP Charger, вы сможете заряжать iPhone от компьютера намного быстрее, ускорение составит до 40%. ASRock APP Charger позволяет быстро заряжать несколько устройств Apple одновременно и даже поддерживает непрерывную зарядку, когда компьютер переходит в режим ожидания (S1), режим ожидания с сохранением данных в ОЗУ (S3), режим гибернации (S4) или режим выключения (S5). Установив драйвер APP Charger, вы испытаете небывалое удобство зарядки.
    Веб-сайт ASRock: http://www.asrock.com/Feature/AppCharger/index.asp
11. Хотя данная материнская плата поддерживает плавную настройку частоты, устанавливать повышенную частоту не рекомендуется. Использование значений частоты шины процессора отличающихся от рекомендованных, может привести к нестабильной работе системы или повреждению процессора и материнской платы.
12. При обнаружении перегрева процессора работа системы автоматически завершается. Прежде чем возобновить работу системы, убедитесь в нормальной работе вентилятора процессора на материнской плате и отсоедините шнур питания, а затем снова подключите его. Чтобы улучшить отвод тепла, не забудьте при сборке компьютера нанести термопасту между процессором и радиатором.
13. EuP расшифровывается как Energy Using Product. Стандарт был разработан Европейским Союзом для определения энергопотребления готовых систем. По требованию EuP система в выключенном состоянии должна потреблять менее 1 Вт энергии. Для соответствия стандарту EuP нужны соответствующие материнская плата и блок питания. Компания Intel предложила, что совместимый с EuP блок питания должен обеспечивать 50% эффективность линии питания 5V при потреблении 100 мА (в режиме ожидания). Свертесь с информацией производителей блоков питания, чтобы выбрать модель с поддержкой EuP.

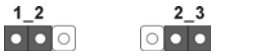
1.3 Установка перемычек

Конфигурация перемычек иллюстрируется на рисунке. Когда перемычка надета на контакты, они называются “замкнутыми” (short). Если на контактах перемычки нет, то они называются “разомкнутыми” (open). На иллюстрации показана 3-контактная перемычка, у которой контакты 1 и 2 замкнуты.



Перемычка	Установка	Описание
PS2 USB PW1 (см. стр. 2, п. 1)		Замкните контакты 2 и 3, чтобы выбрать режим +5VSB и разрешить включение по событиям PS/2 или USB.

Примечание. Выбирая режим +5VSB, имейте в виду, что он требует от блока питания тока в режиме ожидания не менее 2 А.

Очистка CMOS (CLRCMOS1, 3-контактная перемычка) (см. стр. 2, п. 14)		

Примечание. CLRCMOS1 позволяет очистить данные в памяти CMOS. Данные, хранящиеся в памяти CMOS, содержат сведения о настройке системы, такие как системный пароль, дата и параметры настройки. Чтобы сбросить и установить стандартные настройки системы, выключите компьютер и отключите сетевой кабель от блока питания. Подождав 15 секунд, при помощи перемычки замкните контакты pin2 и pin3 CLRCMOS1 на 5 секунд. Однако не очищайте память CMOS сразу после обновления BIOS. При необходимости очистить память CMOS после завершения обновления BIOS необходимо перед очисткой памяти CMOS сначала загрузить систему, а затем выключить ее.

1.4 Колодки и разъемы на плате

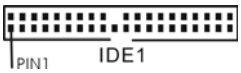
Имеющиеся на плате колодки и разъемы НЕ ЯВЛЯЮТСЯ контактами для перемычек. НЕ УСТАНАВЛИВАЙТЕ перемычки на эти колодки и разъемы – это приведет к необратимому повреждению материнской платы!

Разъем дисковода гибких дисков
(33-контактный FLOPPY1)
(см. стр. 2, п. 26)

la banda roja debe quedar en el mismo lado que el contacto 1

Примечание. Убедитесь, что сторона кабеля с красной полосой соответствует контакту 1 на разъеме.

Разъем первичного канала IDE (синий)
(39-контактный IDE1, см. стр. 2, п. 9)



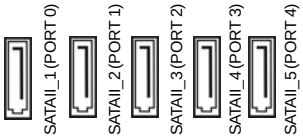
Подключите синий разъем к материнской плате

Подключите черный разъем к устройству IDE

80-жильный кабель ATA 66/100/133

Примечание. Подробную информацию вы найдете в инструкциях, предоставленных производителем IDE-устройства.

Разъемы Serial ATAII
(SATAII 1 (PORT 0), см. стр. 2, п. 21)
(SATAII 2 (PORT 1), см. стр. 2, п. 20)
(SATAII 3 (PORT 2), см. стр. 2, п. 19)
(SATAII 4 (PORT 3), см. стр. 2, п. 18)
(SATAII 5 (PORT 4), см. стр. 2, п. 17)



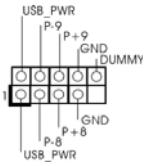
Два соединителя Serial ATAII предназначаются для подключения внутренних устройств хранения с использованием интерфейсных кабелей SATAII. В настоящее время интерфейс SATA допускает скорость передачи данных до \ 3,0 Гбит/с.

Информационный кабель Serial ATA (SATA)
(дополнительно)

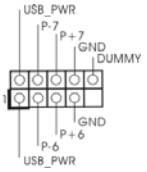
Информационный кабель интерфейса SATA / SATAII не являетсянаправленным. Любой из его соединителей может быть подключен либо к жесткому диску интерфейса SATAII либо к материнской плате.

Русский

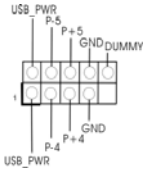
Колодка USB 2.0
(9-контактный USB8 9)
(см. стр. 2, п.10)



(9-контактный USB6 7)
(см. стр. 2, п.11)

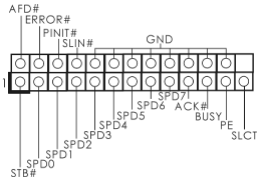


(9-контактный USB4 5)
(см. стр. 2, п.12)



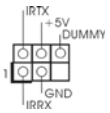
Помимо четырех основных портов USB 2.0 на панели ввода-вывода, три разъема USB 2.0 расположены на самой материнской плате. Каждый разъем USB 2.0 может поддерживать до двух портов USB 2.0.

Разъем порта печати
(25-выводов LPT1)
(см. стр. 2, п.25)



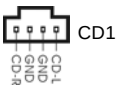
Это интерфейс кабеля порта печати, обеспечивающий удобное подключение принтеров.

Колодка инфракрасного модуля
(5-контактный IR1)
(см. стр. 2, п. 30)



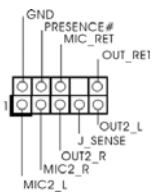
Данная колодка позволяет подключить дополнительный модуль беспроводного инфракрасного приемопередатчика.

Внутренние аудиоразъемы
(4-контактный CD1)
(см. стр. 2, п.28)



Эти разъемы позволяют получать входной стереофонический аудиосигнал от таких источников, как дисковод CD-ROM, DVD-ROM ТВ-тюнер или карта MPEG.

Аудиоразъем передней панели
(9-контактный HD AUDIO1)
(см. стр. 2, п.29)

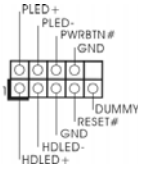


Этот интерфейс предназначен для присоединения аудиокабеля передней панели, обеспечивающего удобное подключение аудиоустройств и управление ими.

Русский

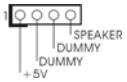
1. Система High Definition Audio поддерживает функцию автоматического обнаружения разъемов (Jack Sensing), однако для ее правильной работы кабель панели в корпусе должен поддерживать HDA. При сборке системы следуйте инструкциям, приведенным в нашем руководстве и руководстве пользователя для корпуса.
2. Если вы используете аудиопанель AC'97, подключите ее к колодке аудиоинтерфейса передней панели следующим образом:
   A. Подключите выводы Mic IN (MIC) к контактам MIC2 L.
   B. Подключите выводы Audio R (RIN) к контактам OUT2 R, а выводы Audio L (LIN) к контактам OUT2 L.
   C. Подключите выводы Ground (GND) к контактам Ground (GND).
   D. Контакты MIC RET и OUT RET предназначены только для аудиопанели HD. При использовании аудиопанели AC'97 подключать их не нужно.
   E. Войдите в программу настройки BIOS. Откройте раздел Advanced Settings и выберите Chipset Configuration. Измените параметр Front Panel Control со значения [Auto] на [Enabled].
   F. Загрузите Windows. Откройте утилиту Realtek HD Audio Manager, щелкнув на значке панели задач в нижней правой части экрана.
   Для Windows® XP / XP 64-bit:
   Щелкните на пункте "Audio I/O" (Ввод-вывод звука), а затем "Connector Settings" (Параметры разъемов)  , и выберите "Disable front panel jack detection" (Отключить автоопределение разъемов передней панели). Нажмите OK, чтобы сохранить внесенные изменения.
   Для Windows® 7 / 7 64-bit / Vista™ / Vista™ 64-bit:
   Проверьте значок "Folder" (Папка)  вверху справа, выберите "Disable front panel jack detection" (Отключить определение разъема передней панели) и сохраните изменения, нажав "OK".
   G. Включение фронтального микрофона.
   Для ОС Windows® XP / XP 64-bit:
   Выберите "Front Mic"(Фронтальный микрофон) как устройство записи по умолчанию. Если требуется слышать голос с использованием фронтального микрофона, снимите выделение с значка "Mute" (Отключить звук) в поле "Front Mic" (Фронтальный микрофон) области "Playback" (Воспроизведение).
   Для ОС Windows® 7 / 7 64-bit / Vista™ / Vista™ 64-bit:
   Перейдите на вкладку "Front Mic" (Фронтальный микрофон) на панели управления Realtek. Щелкните "Set Default Device" (Установить устройство по умолчанию) для установки фронтального микрофона устройством записи по умолчанию.

Колодка системной панели
(9-контактный PANEL1)
(см. стр. 2, п. 23)



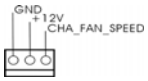
Данная колодка обеспечивает работу нескольких функций передней панели системы.

Колодка динамика корпуса
(4-контактный SPEAKER1)
(см. стр. 2, п. 22)



Подключите к этой колодке кабель от динамика на корпусе компьютера.

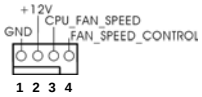
Chassis и Power Fan-соединители
(3-контактный CHA FAN1)
(см. стр. 2, п. 16)



(3-контактный PWR FAN1)
(см. стр. 2, п. 13)

Подключите кабели вентилятора к соединителям и присоедините черный шнур к штырю заземления.

Разъем вентилятора процессора
(4-контактный CPU FAN1)
(см. стр. 2, п. 5)



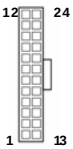
Подключите к этому разъему кабель вентилятора процессора так, чтобы черный провод соответствовал контакту земли.

Данная материнская плата поддерживает вентиляторы процессора с 4-контактным разъемом (функция тихого режима вентилятора), однако вентиляторы с 3-контактным разъемом также будут успешно работать, хотя функция управления скоростью вращения вентилятора окажется недоступной. Если вы хотите подключить вентилятор процессора с 3-контактным разъемом к разъему вентилятора процессора на данной материнской плате, для этого следует использовать контакты 1-3.

Контакты 1-3 подключены

Óстановка вентилятора с 3-контактным разъемом

Колодка питания ATX
(24-контактный ATXPWR1)
(см. стр. 2, п. 8)

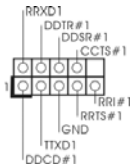


Подключите к этой колодке кабель питания ATX.

Несмотря на то, что эта материнская плата предусматривает 24-штыревой разъем питания ATX, работа будет продолжаться, даже если адаптируется традиционный 20-штыревой разъем питания ATX. Для использования 20-штыревого разъема питания ATX вставьте источник питания вместе со штекером 1 и штекером 13.

Установка 20-штыревого разъема питания ATX

Русский

Колодка питания 12V-ATX (4-контактный ATX12V1) (см. стр. 2, п. 2)		Обратите внимание, что к этому разъему необходимо подключить вилку блока питания ATX 12 В, чтобы обеспечить достаточную мощность электропитания. В противном случае включение системы будет невозможно.
Колодка COM-порта (9-контактный COM1) (см. стр. 2, п. 27)		Данная колодка COM-порта позволяет подключить модуль порта COM.

2. Информация о BIOS

Утилита настройки BIOS (BIOS Setup) хранится во флэш-памяти на материнской плате. Чтобы войти в программу настройки BIOS Setup, при запуске компьютера нажмите <F2> во время самопроверки при включении питания (Power-On-Self-Test – POST). Если этого не сделать, то процедуры тестирования POST будут продолжаться обычным образом. Если вы захотите вызвать BIOS Setup уже после POST, перезапустите систему с помощью клавиш <Ctrl> + <Alt> + <Delete> или нажатия кнопки сброса на корпусе системы. Подробную информацию о программе BIOS Setup вы найдете в Руководстве пользователя (в формате PDF) на компакт-диске поддержки.

3. Информация о компакт-диске поддержки с программным обеспечением

Данная материнская плата поддерживает различные операционные системы Microsoft® Windows®: 7 / 7 64-bit / Vista™ / Vista™ 64-bit / XP / XP Media Center / XP 64-bit. Поставляемый вместе с ней компакт-диск поддержки содержит необходимые драйверы и полезные утилиты, которые расширяют возможности материнской платы. Чтобы начать работу с компакт-диском поддержки, вставьте его в дисковод CD-ROM. Если в вашем компьютере включена функция автозапуска (AUTORUN), то на экране автоматически появится главное меню компакт-диска (Main Menu). Если этого не произошло, найдите в папке BIN на компакт-диске поддержки файл ASSETUP.EXE и дважды щелкните на нем, чтобы открыть меню.

1. Introdução

Gratos por comprar nossa placa–mãe ***939A785GMH***, um produto confiável feito com ASRock um estrito controle de qualidade consistente. Com um excelente desempenho, essa placa é dotada de um projeto robusto que atende a ASRock de compromisso com a qualidade e durabilidade.

Este Guia de Instalação Rápida apresenta a placa-mãe e o guia de instalação passo a passo. Mais informações detalhadas sobre a placa-mãe podem ser encontradas no manual do usuário do CD de suporte.

Porque as especificações da placa mãe e o software de BIOS poderiam ser atualizados, o conteúdo deste manual pode ser cambiado sem aviso. Em caso de qualquer modificação deste manual, a versão atualizada estará disponível no website de ASRock sem prévio aviso. Pode também encontrar as listas das mais recentes placas VGA e das CPUs suportadas no site da web da ASRock.

Website de ASRock http://www.asrock.com

Se precisar de apoio técnico em relação a este placa-mãe, por favor visite o nosso sítio da internet para informação específica acerca do modelo que está a utilizar. www.asrock.com/support/index.asp

1.1 Este pacote contém

Placa-mãe ASRock ***939A785GMH***
(Formato Micro ATX: 9,6 pol. x 8,6 pol., 24,4 cm x 21,8 cm)
Guia de instalação rápida da ASRock ***939A785GMH***
CD de suporte da placa ASRock ***939A785GMH***
Dois cabo de dados ATA Serial (SATA) (Opcional)
Uma proteção I/O

1.2 Especificações

Plataforma	- Formato Micro ATX: 9,6 pol. x 8,6 pol., 24,4 cm x 21,8 cm - Condensador Solid para alimentação da CPU
CPU	- Soquete de 939 compatível com processador AMD Athlon™ 64FX / 64X2 / 64 - Suporta a tecnologia AMD Cool 'n' Quiet™ - FSB de 1000 MHz (2,0 GT/s) - Suporta a tecnologia Untied Overclocking (veja o **AVISO 1**) - Suporta a tecnologia Hyper-Transport
Chipsets	- North Bridge: AMD 785G - South Bridge: AMD SB710
Memória	- Suporte à tecnologia de memória de duplo canal (veja o **AVISO 2**) - 4 x slots de DDR DIMM - Suporte para memória não intermédia DDR 400/333/266, não ECC - Capacidade máxima de memória do sistema: 4GB (veja o **AVISO 3**)
Slots de Expansão	- 1 x slot de PCI Express 2.0 x16 (modo azul @ x16) - 1 x slot de PCI Express 2.0 x1 - 2 x slots de PCI - Suporta ATI™ Hybrid CrossFireX™
VGA integrado	- Placa gráfica AMD Radeon HD 4200 integrada - DX10.1 class iGPU, Shader Model 4.1 - Memória partilhada máxima 512MB (veja o **AVISO 4**) - Três opções de saída VGA: D-Sub, DVI-D e HDMI - Suporta HDMI com resolução máxima até 1920x1200 (1080p) - Suporta Dual-link DVI com resolução máxima até 2560x1600 @ 75Hz - Suporta D-Sub com resolução máxima até 2048x1536 @ 60Hz - Suportar HDCP função com DVI e HDMI portas - Suportar 1080p Blu-ray (BD) / HD-DVD playback com DVI e HDMI portas
Áudio	- Áudio de alta definição de canal 7.1 (Codec de áudio Realtek ALC888)
LAN	- PCIE x1 Gigabit LAN 10/100/1000 Mb/s - Realtek RTL8111DL - Suporta Wake-On-LAN - Suporta PXE

Entrada/Saída pelo painel traseiro	I/O Panel - 1 x porta para teclado PS/2 - 1 x porta D-Sub - 1 x porta DVI-D - 1 x porta HDMI - 1 x porta óptica para saída SPDIF - 4 x portas USB 2.0 padrão - 1 x porta eSATA2 - 1 x porta LAN RJ-45 com LED (LED ACT/LIG e LED VELOCIDADE) - HD Áudio Jack: Altifalante traseiro / Central/Graves / Entrada de linha / Altifalante frontal / Microfone (veja o **AVISO 5**)
Conectores	- 5 x conectores SATA2, suporte a taxa de transferência de dados de até 3,0 Gb/s, suporte RAID (RAID 0, RAID 1, RAID 5, RAID 10, JBOD), NCQ, AHCI e “conexão a quente” - 1 x conectores ATA133 IDE (suporta até 2 dispositivos IDE) - 1 x porta para disquete - 1 x Conector do módulo de infravermelho - 1 x conector da porta COM - 1 x Conector de Porta de Impressão - Conector do ventilador da CPU/chassis/energia - Conector de força do ATX de 24 pinos - Conector ATX 12 V de 4 pinos - Conectores internos de áudio - Conector Áudio do painel frontal - 3 x cabezal USB 2.0 (suportar 6 portas USB 2.0 adicionais)
BIOS	- 8Mb BIOS AMI - BIOS AMI - Suporta dispositivos “Plug and Play” - ACPI 1.1 atendendo a eventos de “wake up” - Suporte para SMBIOS 2.3.1 - VCCM, NB Voltage Multi-adjustment
CD de suporte	- Controladores, utilitários, software antivírus (Experimentacao Versao), CyberLink MediaEspresso 6.5 versão de demonstração, conjunto de programas da ASRock (CyberLink DVD Suite - OEM e versão de demonstração; Creative Sound Blaster X-Fi MB - versão de demonstração; ASRock MAGIX Multimedia Suite - OEM)
Funcionalidade Única	- Sintonizador ASRock OC (veja o **AVISO 6**) - ASRock Poupança de Energia Inteligente (veja o **AVISO 7**)

	- ASRock Instant Boot - ASRock Instant Flash (veja o **AVISO 8**) - ASRock OC DNA (veja o **AVISO 9**) - ASRock APP Charger (veja o **AVISO 10**) - Booster híbrido: - Frequência da CPU com controle contínuo (veja o **AVISO 11**) - ASRock U-COP (veja o **AVISO 12**) - B.F.G. (Boot Failure Guard)
Monitor do HW	- Sensores de temperature do procesador - Medição de temperatura da placa-mãe - Tacômetros de ventilador do Processador/chassis/energia - Ventoinha silenciosa para a CPU - Monitoramento de voltagem : +12 V, +5 V, +3.3 V, Vcore
Sistema Operacional	- Microsoft® Windows® 7 / 7 de 64 bits / Vista™ / Vista™ de 64 bits / XP / Centro de multimedia XP / XP de 64 bits
Certificações	- FCC, CE, WHQL - “ErP/EuP Ready” (é necessária alimentação eléctrica “ErP/EuP Ready”) (veja o **AVISO 13**)

* Para informações mais detalhadas por favor visite o nosso sítio Web:
http://www.asrock.com

AVISO

Tenha em atenção que a operação de overclocking envolve alguns riscos, nomeadamente no que diz respeito ao ajuste das definições do BIOS, à aplicação da tecnologia Untied Overclocking ou à utilização de ferramentas de overclocking de terceiros. O overclocking pode afectar a estabilidade do seu sistema ou até mesmo causar danos ao nível dos componentes e dispositivos que integram o sistema. Esta operação é da total responsabilidade do utilizador. Não nos responsabilizamos pelos possíveis danos resultantes do overclocking.

AVISO!

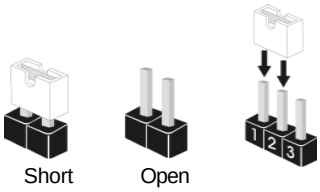
1. Esta placa principal suporta a tecnologia Untied Overclocking. Consulte a secção “Tecnologia Untied Overclocking” na página 27 para mais informações.
2. Esta placa-mãe suporta a tecnologia de memória de duplo canal. Antes de implementar a tecnologia de memória de duplo canal, certifique-se de ler o guia de instalação dos módulos de memória na página 12 para a instalação correta.
3. Devido às limitações do sistema operativo, o tamanho real da memória pode ser inferior a 4 GB uma vez que uma parte desta está reservada para utilização pelo sistema operativo no âmbito do Windows® 7 / Vista™ / XP. No caso da CPU de 64 bits do Windows® OS, esta limitação não existe.
4. O máximo tamanho de memória compartilhada é definido por vendedor de chipset e é sujeito a mudar. Verifique o AMD website para a última informação.
5. Em termos do microfone, esta placa-principal suporta ambos os modos estéreo e mono. Quanto à saída de áudio, esta placa-principal suporta os modos de 2, 4, 6 e 8 canais. Consulte a tabela na página 3 para uma ligação correcta.
6. É uma ferramenta de overclocking da ASRock fácil de utilizar que lhe permite vigiar i seu sistema via a função de monitorização de hardware e proceder ao overclock dos dispositivos de hardware para obter o melhor desempenho em ambiente Windows®. Por favor visite o nosso sítio Web para conhecer os procedimentos de funcionamento do Sintonizador ASRock OC.
   Sítio Web da ASRock: http://www.asrock.com
7. Com um hardware de propriedades e concepção de software avançadas, a Intelligent Energy Saver é uma tecnologia revolucionária que proporciona poupanças de energia inéditas. O regulador de voltagem pode reduzir o número de fases de saída para melhorar a eficiência quando os núcleos do CPU estão inactivos. Por outras palavras, pode providenciar uma excepcional poupança de energia e melhorar a eficiência energética sem sacrificar o desempenho. Para utilizar a função Poupança de Energia, por favor active a opção Cool ‘n’ Quiet na configuração da BIOS primeiro. Por favor visite o nosso sítio Web para conhecer os procedimentos de funcionamento da Poupança de Energia Inteligente. Sítio Web da ASRock: http://www.asrock.com

8. ASRock Instant Flash est un utilitaire de flash du BIOS flash intégré dans la ROM Flash. Cet outil pratique de mise à jour du BIOS vous permet de mettre à jour le BIOS du système sans entrer d'abord dans un système d'exploitation tel que MS-DOS ou Windows®. Avec cet utilitaire, vous pouvez appuyer sur la touche <F6> pendant le POST ou
   sur la touche <F2> durant le menu de configuration du BIOS pour accéder à ASRock Instant Flash. Lancez simplement cet outil et enregistrez le nouveau fichier BIOS sur votre lecteur flash USB, sur une disquette ou un disque, avant de pouvoir mettre à jour votre BIOS en quelques clics seulement, sans préparer de disquette supplémentaire ni d'autre utilitaire flash compliqué. Veuillez noter que le lecteur flash USB ou le disque dur doit utiliser le système de fichiers FAT32/16/12.
9. O próprio nome do software – OC DNA diz-lhe literalmente aquilo de que é capaz. OC DNA, um utilitário exclusivo desenvolvido pela ASRock, proporciona uma forma conveniente para o utilizador gravar as definições OC e partilhar com outros. Ajuda-o a guardar o seu registo de "overclocking" (aumento da frequência do processador) no sistema operativo e simplifica o complexo processo de gravação das definições de "overclocking". Com OC DNA, pode guardar as suas definições OC como perfil e partilhá-las com os seus amigos! Depois, os seus amigos podem carregar o perfil OC no seu próprio sistema para obter as mesmas definições OC que você tem! Por favor, tenha em conta que o perfil OC só pode ser partilhado e trabalhado na mesma placa-mãe.
10. Se pretende carregar os seus dispositivos Apple, como o iPhone/ iPod/iPad Touch, de forma mais rápida e menos limitada, a ASRock preparou para si uma solução fantástica, o ASRock APP Charger. Instale o controlador APP Charger para que o seu iPhone carregue mais rapidamente a partir do computador, até 40% mais rápido do que antes. O ASRock APP Charger permite-lhe carregar rapidamente vários dispositivos Apple em simultâneo e suporta até o carregamento quando o seu PC entrar em modo de Espera (S1), Suspensão (S3), Hibernação (S4) ou desligado (S5). Com o controlador APP Charger instalado, poderá desfrutar facilmente da melhor experiência de carregamento.
    Web site da ASRock: http://www.asrock.com/Feature/AppCharger/index.asp
11. Apesar de esta placa-mãe oferecer controle continuamente variável, não se recomenda efetuar over-clock. Freqüências de barramento diferentes das recomendadas para a CPU podem provocar instabilidade do sistema ou danos à CPU.

12. Assim que se detecta um superaquecimento na CPU, o sistema se desliga automaticamente e o botão de energia do chassis fica inativo. Cheque o ventilador da CPU na placa–mãe, para verificar se está funcionando corretamente antes de religar o sistema. Para melhorar a dissipação de calor, lembre-se de aplicar o material de interface térmica entre o processador e o dissipador de calor.
13. EuP, que significa Energy Using Product (Produto que Utiliza Energia), foi uma provisão regulada pela União Europeia para definir o consumo de energia para o sistema concluído. De acordo com a EuP, a corrente AC total do sistema concluído deverá ser inferior a 1. 00W no estado de modo desligado. Para satisfazer a norma EuP, é necessário uma placa-mãe e uma fonte de alimentação eléctrica que estejam em conformidade com a norma EuP. De acordo com a sugestão da Intel, a fonte de alimentação em conformidade com a norma EuP deve satisfazer o padrão, isto é, a eficiência energética de reserva de 5v deve ser superior a 50% com um consumo de corrente de 100 mA. Para selecção da fonte de alimentação em conformidade com a norma EuP, recomendamos que confirme com o fabricante da fonte de alimentação para mais detalhes.

1.3 Configuração dos Jumpers

A ilustração mostra como os jumpers são configurados. Quando há uma capa de jumpers sobre os pinos, diz–se que o jumper está “curto”. Não havendo capa sobre os pinos, o jumper está “aberto”. A ilustração mostra um jumper de 3 pinos em que os pinos 1 e 2 están “curtos” quando a capa de jumper estiver colocada sobre esses 2 pinos.



Short Open

Jumper	Configuração	
PS2_USB_PW1 (veja a folha 2, No. 1)		Pin2, Pin3 curtos para habilitar +5VSB (stand by) para PS/2 ou eventos de wake up na USB.

Nota: Para escolher +5VSB, é preciso uma corrente de stand by de 2 A ou mais.

Restaurar CMOS (CLRCMOS1, jumper de 3 pinos) (veja a folha 2, No. 14)	 Configuração-padrão	 Limpar o CMOS

Nota: CLRCMOS1 permite você limpar os dados em CMOS. Os dados em CMOS incluem informações da configuração do sistema como: por exemplo a senha do sistema, data, tempo, e os parámetros da configuração do sistema. Para limpar e reconfigurar os parámetros do sistema a configuração inicial da fábrica, por favor desligue o cabo de força, ponha em curto–circuito os pin 2 e pin 3 de CLRCMOS1 por mais de 5 segundos para limpar o CMOS usando um jumper. Por favor lembrese de remover o jumper depois de limpar o COMS. Se precisar limpar o CMOS ao concluir a atualização do BIOS, deverá reiniciar o sistema primeiro e, em seguida, desligá-lo antes de executar a ação de limpeza o CMOS.

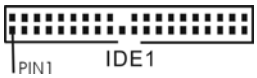
1.4 Conectores

Os conectores NÃO SÃO jumpers. NÃO coloque capas de jumper sobre estes conectores. A colocação de pontos de jumper sobre os conectores causará danos irreversíveis à placa-mãe.

Conector	Figura	Descrição
Conector FDD (FLOPPY 1, 33 pinos) (veja a folha 2, No. 26)		

Nota: Certifique-se de que o lado com listras vermelhas no cabo seja conectado ao lado Pino 1 do conector.

Conector primário (Azul)
(IDE1 de 39 pinos, veja a folha 2, No. 9)



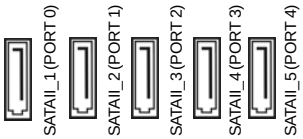
Ligue esta ponta (azul) à placa–mãe

Ligue esta ponta (preta) aos dispositivos IDE

Cabo ATA 66/100/133 de 80 condutores

Nota: Para detalhes, consulte as instruções do fornecedor do seu dispositivo IDE.

Conectores ATAII Serial
(SATAII_1 (PORT 0): veja a folha 2, No. 21)
(SATAII_2 (PORT 1): veja a folha 2, No. 20)
(SATAII_3 (PORT 2): veja a folha 2, No. 19)
(SATAII_4 (PORT 3): veja a folha 2, No. 18)
(SATAII_5 (PORT 4): veja a folha 2, No. 17)



Estes cinco conectores Serial ATA (SATAII) suportam unidades de disco rígido SATA ou SATAII como dispositivos de armazenamento internos. A atual interface SATAII permite uma taxa de transferência de dados de até 3.0 Gb/s.

Cabo de dados ATA (SATA) (opcional)

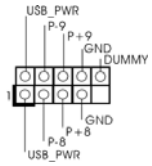
Tanto a saída do cabo de Serial dados SATA pode ser conectado ao disco rígido SATA / SATAII quanto o conector SATAII na placa mãe.

Português

Cabezal USB 2.0

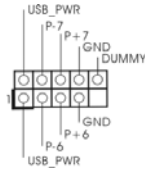
(USB8_9 de 9 pinos)

(veja a folha 2, No. 10)



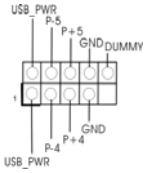
(USB6_7 de 9 pinos)

(veja a folha 2, No. 11)



(USB4_5 de 9 pinos)

(veja a folha 2, No. 12)

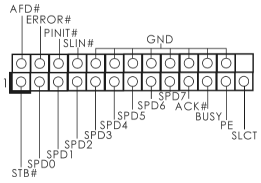


Além das quatro portas USB 2.0 por defeito no painel de entrada/saída, há tres ligações USB 2.0 nesta placa-mãe. Cada ligação USB 2.0 pode suportar duas portas USB 2.0.

Conector de Porta de Impressão

(LPT1 de 25 pinos)

(veja a folha 2, No. 25)

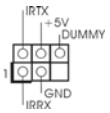


Esta é uma interface para um cabo de porta de impressão que permite uma ligação prática para dispositivos de impressão.

Conector do módulo de infravermelho

(IR1 de 5 pinos)

(veja a folha 2, No. 30)

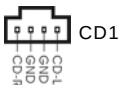


Este conector suporta um módulo de infravermelho para transmissão e recepção sem fio, opcional.

Conectores internos de áudio

(CD1 de 4 pinos)

(CD1: veja a floha 2, No. 28)

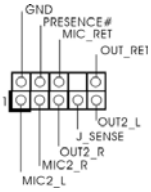


Estes conectores permitem que se receba entrada de áudio em estéreo de fontes de áudio como CD-ROM, DVD-ROM, placa sintonizadora de TV ou placa MPEG.

Conector Áudio do painel frontal

(HD_AUDIO1 de 9 pinos)

(veja a folha 2, No. 29)



Esta é uma interface para o cabo de áudio no painel frontal, que permite uma conexão e controle convenientes dos dispositivos de áudio.

Português

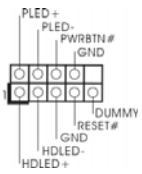
1. Áudio de elevada definição que suporta a sensibilidade da tomada, mas o fio do painel existente no chassis tem de suportar HDA para funcionar correctamente. Siga s instruções que aparecem no manual e no manual do chassis para instalar o sistema.
2. Se utilizar o painel de áudio AC'97, instale-o no cabeçalho de áudio do painel frontal, como a figura abaixo mostra:
   A. Ligue o Mic_IN (MIC) ao MIC2_L.
   B. Ligue o Audio_R (RIN) ao OUT2_R e o Audio_L (LIN) ao OUT2_L.
   C. Ligue o Ground (GND) ao Ground (GND).
   D. MIC_RET e OUT_RET são apenas para o painel de áudio HD. Não necessita de os ligar para o painel de áudio AC'97.
   E. Entre no utilitário de configuração do BIOS. Vá até à opção Definições avançadas e escolha Configuração do chipset. Defina a opção Controlo do painel frontal de [Automático] para [Activado].
   F. Entre no sistema Windows. Clique no ícone existente na barra de tarefas no canto inferior direito para aceder ao Realtek HD Audio Manager.
   Para Windows® XP / XP 64-bit OS:
   Clique em "Entrada/Saída de áudio", seleccione "Definições do conector"  , escolha a opção "Desactivar detecção da tomada do painel frontal" e guarde a alteração clicando em "OK".
   Para Windows® 7 / 7 64-bit / Vista™ / Vista™ 64-bit OS:
   Clique o direito-cima "Folder" icone  , escolhe "Deteção de valete de painel dianteiro" e guarda a mudança por clicar "OK".
   G. Para activar o microfone frontal
   Para Windows® XP / XP 64-bit OS:
   Queira seleccionar "Front Mic" (Microfone Frontal) como dispositivo de gravação predefinido.
   Se quer ouvir a sua voz através do microfone frontal, queira desmarcar o ícone "Mute" (Sem som) em "Front Mic" (Microfone Frontal) da parte "Playback" (Reprodução).
   Para Windows® 7 / 7 64-bit / Vista™ / Vista™ 64-bit OS:
   Vá ao separador "Front Mic" (Microfone Frontal) no painel de controlo Realtek. Clique em "Set Default Device" (Definir Dispositivo como Predefinido) para fazer com que o Microfone Frontal seja o dispositivo de gravação predefinido.

Português

Conector do sistema no painel

(PANEL1 de 9 pinos)

(veja a folha 2, No. 23)

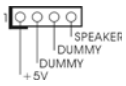


Este conector acomoda diversas funções de sistema no painel frontal.

Conector do alto-falante do chassi

(SPEAKER1 de 4 pinos)

(veja a folha 2, No. 22)



Ligue o alto-falante do chassi neste conector.

Conector do ventilador do chassis e energia

(CHA_FAN1 de 3 pinos)

(veja a folha 2, No. 16)

(PWR_FAN1 de 3 pinos)

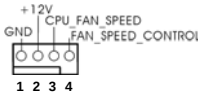
(veja a folha 2, No. 13)

Ligue o cabo do ventilador neste conector, coincidindo o fio preto com o pino de aterramento.

Conector do ventilador da CPU

(CPU_FAN1 de 4 pinos)

(veja a folha 2, No. 5)



Ligue o cabo do ventilador da CPU, coincidindo o fio preto com o pino de aterramento.

Apesar de esta placa-mãe possuir 4 apoios para uma ventoinha de CPU (Ventoinha silenciosa), uma ventoinha de 3 pinos para CPU poderá funcionar mesmo sem a função de controlo de velocidade da ventoinha. Se pretender ligar uma ventoinha de 3 pinos para CPU ao conector de ventoinha do CPU nesta placa-mãe, por favor, ligue-a aos pinos 1-3.

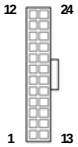
Pinos 1-3 ligados

Instalação de Ventoinha de 3 pinos

Conector de força do ATX

(ATXPWR1 de 24 pinos)

(veja a folha 2, No. 8)



Ligue a fonte de alimentação ATX neste conector.

Embora esta placa-mãe providencie um conector de energia ATX de 24 pinos, pode apesar disso funcionar com a adapta-ção de uma fonte de energia tradicional de 20 pinos. Para usar a fonte de alimentação de 29 pinos, por favor ligue a sua fonte de alimentação com o Pino 1 e o Pino 13.

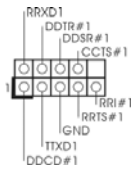
Instalação da Fonte de alimentação ATX de 20 Pinos

Conector ATX 12 V

(ATX12V1 de 4 pinos)

(veja a folha 2, No. 2)

Note que é necessário ligar uma fonte de alimentação com conector ATX 12V neste conector para fornecer alimentação suficiente. Do contrário, haverá falhas de funcionamento.

Conector da porta COM (COM1 de 9 pinos) (veja a folha 2, No. 27)		Este conector é usado para suportar um módulo de porta COM.

2. Informações da BIOS

A Memória Flash da placa–mãe armazena o utilitário de configuração da BIOS. Quando você ligar o computador, pressione < F2 > durante a inicialização (POST) para entrar nas configurações da BIOS; caso contrário o POST continua com suas rotinas de teste. Caso você queira entrar nas configurações da BIOS após o POST, reinicie o sistema pressionando <Ctrl> + <Alt> +<Del>, ou pressionando a tecla de reset no gabinete. Também se pode reinicializar desligando a máquina e ligando–a novamente. Para informações mais detalhadas sobre a configuração da BIOS, consulte o manual do usuário (em pdf) contido no CD de instalação.

3. Informações do CD de Suporte

Esta placa Mãe suporta vários sistemas operacionais: Microsoft® Windows®: 7 / 7 de 64 bits / Vista™ / Vista™ de 64 bits / XP / Centro de multimedia XP / XP de 64 bits. O CD de instalação que acompanha a placa Mãe contem: drivers e utilitários necessários para um melhor desempenho da placa Mãe. Para começar a usar o CD de instalação, introduza o CD na leitora de CD-ROM do computador. Automaticamente iniciará o menu principal, casa o “AUTORUN” esteja ativado. Se o menu principal não aparecer automaticamente, explore o CD e execute o “ASSETUP.EXE” localizado na pasta “BIN”.

1. Giriş

ASRock'ın kesintisiz titiz kalite denetimi altında üretilen güvenilir bir anakart olan ASRock ***939A785GMH*** anakartını satın aldığınız için teşekkür ederiz. ASRock'ın kalite ve dayanıklılık konusundaki kararlılığına uygun güçlü tasarımıyla mükemmel bir performans sunar.

Bu kılavuzda, bölüm 1 ve 2 anakarta giriş ve donanım yüklemesine adım adım kılavuz içerir. Destek CD'sinin bölüm 3 ve 4'ü, BIOS ayarları ve bilgilerini içerir.

Anakart özellikleri ve BIOS yazılımı güncelleştirilebileceğinden bu kılavuzun içeriği önceden haber verilmeksizin değişebilir. Bu belgede değişiklik yapılması durumunda, güncelleştirilmiş sürüm ayrıca haber verilmeksizin ASRock web sitesinde sunulur. En son VGA kartlarını ve CPU destek listelerini de ASRock web sitesinde bulabilirsiniz.
ASRock web sitesi: http://www.asrock.com
Bu anakartla ilgili teknik desteğe ihtiyacınız olursa, kullandığınız modele özel bilgiler için lütfen web sitemizi ziyaret edin.
www.asrock.com/support/index.asp

1.1 Paket İçindekiler

ASRock ***939A785GMH*** Anakartı
(Mikro ATX Form Faktörü: 9,6 inç x 8,6 inç, 24,4 cm x 21,8 cm)
ASRock ***939A785GMH*** Hızlı Takma Kılavuzu
ASRock ***939A785GMH*** Destek CD'si
İki Seri ATA (SATA) Veri Kablosu (İsteğe Bağlı)
Bir G/Ç Panel Kalkanı

1.2 Özellikler

Platform	- Mikro ATX Form Faktörü: 9,6 inç x 8,6 inç, 24,4 cm x 21,8 cm - CPU gücü için Katı Kapasitör
CPU	- 939 işlemcileri desteği: AMD Athlon™ 64FX / 64X2 / 64 işlemcileri - AMD'nin Cool 'n' Quiet™ Teknolojisini Destekler - FSB 1000 MHz (2,0 GT/sn) - Untied Overclocking Teknolojisini destekler (bkz. **DİKKAT 1**) - Hyper-Transport Teknolojisini Destekler
Yonga seti	- Northbridge: AMD 785G - Southbridge: AMD SB710
Bellek	- Çift Kanallı DDR Belleği Teknolojisi (bkz. **DİKKAT 2**) - 4 x DDR DIMM yuva - DDR 400/333/266 ECC olmayan, ara belleksiz bellek - Sistem belleğinin maks. kapasitesi: 4 GB (bkz. **DİKKAT 3**)
Genişletme Yuvası	- 1 x PCI Express 2.0 x16 yuva (mavi @ x16 modu) - 1 x PCI Express 2.0 x1 yuva - 2 x PCI yuva - ATI™ Hybrid CrossFireX™'ı destekler
Grafikler	- Entegre AMD Radeon HD 4200 grafik kartı - DX10.1 sınıfı iGPU, Shader Model 4.1 - Maks. paylaşılan bellek 512 MB (bkz. **DİKKAT 4**) - Üç VGA Çıkış seçeneği: D-Sub, DVI-D ve HDMI - 1920x1200'e kadar (1080P) maks. çözünürlükle HDMI Teknolojisini destekler - 75Hz'de 2560x1600'e kadar maks. çözünürlükle Dual-link DVI'yı destekler - 60Hz'de 2048x1536'a kadar maks. çözünürlükle D-Sub'ı destekler - DVI ve HDMI portlarıyla HDCP işlevini destekler - DVI ve HDMI portlarıyla Tam HD 1080p Blu-ray (BD) / HD-DVD oynatımını destekler
Ses	- 7.1 Kanal HD Ses (Realtek ALC888 Ses Codec'i)
LAN	- PCIE x1 Gigabit LAN 10/100/1000 Mb/sn - Realtek RTL8111DL - LAN'da Uyan özelliğini destekler - PXE destekler
Arka Panel G/Ç	G/Ç Paneli - 1 x PS/2 Klavye Portu - 1 x D-Sub Portu - 1 x DVI-D Portu - 1 x HDMI Portu

	- 1 x Optik SPDIF Çıkışı Portu - 4 x Kullanıma Hazır USB 2.0 Portu - 1 x eSATA2 Konektörü - 1 x RJ-45 LAN Portu, LED'li (AKT/LİNK LED'i ve HIZ LED'i) - HD Ses Jakı: Arka Hoparlör / Orta / Bas / Hat girişi / Ön Hoparlör / Mikrofon (bkz. **DİKKAT 5**)
Konektör	- 5 x Seri ATA2 3,0 Gb/s konektör, RAID (RAID 0, RAID 1, RAID 5, RAID 10 ve JBOD), NCQ, AHCI ve "Sistem Açıkken Bileşen Takma" işlevlerini destekler - 1 x ATA133 IDE konektörü (2 x IDE cihazı destekler) - 1 x Disket konektörü - 1 x KÖ fişi - 1 x COM portu fişi - 1 x Yazdırma portu fişi - CPU/Kasa/Güç FAN konektörü - 24 pin ATX güç konektörü - 4 pin 12V güç konektörü - CD giriş fişi - Ön panel ses fişi - 3 x USB 2.0 fiş (6 USB 2.0 portu destekler)
BIOS Özelliği	- 8 Mb AMI BIOS - AMI Legal BIOS - "Tak Çalıştır"ı destekler - ACPI 1.1 Uyumlu Uyandırma Olayları - SMBIOS 2.3.1 Desteği - VCCM, NB gerilim çok ayarı
Destek CD'si	- Sürücüler, Yardımcı Programlar, AntiVirüs Yazılımı (Deneme Sürümü), CyberLink MediaEspresso 6.5 Deneme, ASRock Yazılım Paketi (CyberLink DVD Paketi - OEM ve Deneme; Creative Sound Blaster X-Fi MB - Deneme; ASRock MAGIX Multimedia Suite - OEM)
Benzersiz Özellik	- ASRock OC Tuner (bkz. **DİKKAT 6**) - ASRock Akıllı Enerji Tasarrufu (bkz. **DİKKAT 7**) - ASRock Anında Önyükleme - ASRock Anında Flash (bkz. **DİKKAT 8**) - ASRock OC DNA (bkz. **DİKKAT 9**) - ASRock APP Charger (bkz. **DİKKAT 10**) - Hibrit Yükseltici: - CPU Frekans Adımsız Kontrol (bkz. **DİKKAT 11**) - ASRock U-COP (bkz. **DİKKAT 12**) - Önyükleme Hatası Koruması (B.F.G.)

Donanım Monitör	- CPU Sıcaklık Duyarlılığı - Kasa Sıcaklık Duyarlılığı - CPU/Kasa/Güç Fan Takometresi - CPU Sessiz Fan - Voltaj İzleme: +12V, +5V, +3,3V, Vcore
İS	- Microsoft® Windows® 7 / 7 64-bit / Vista™ / Vista™ 64-bit / XP / XP Media Center / XP 64-bit uyumlu
Sertifikalar	- FCC, CE, WHQL - ErP/EuP Hazır (ErP/EuP hazır güç kaynağı gerekli) (bkz. **DİKKAT 13**)

* Ayrıntılı ürün bilgileri için lütfen web sitemizi ziyaret edin: http://www.asrock.com

UYARI

Lütfen, ayarı BIOS'da ayarlama, Untied Overclocking Teknolojisi'ni uygulama veya üçüncü taraf aşırı hızlandırma araçlarını kullanma gibi durumlarda aşırı hızlandırmayla ilgili risk olduğunu unutmayın. Aşırı hızlandırma sisteminizin kararlılığını etkiler veya hatta sisteminizin bileşenlerini ve cihazlarına zarar verebilir. Bu risk size aittir ve zararı siz ödersiniz. Aşırı hızlandırmadan kaynaklanan olası zarardan sorumlu değiliz.

DİKKAT!

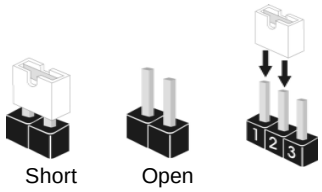
1. Bu anakart Untied Overclocking Teknolojisi'ni destekler. Ayrıntılar için lütfen sayfa 27'teki "Untied Overclocking Teknolojisi"ni okuyun.
2. Bu anakart Çift Kanallı Bellek Teknolojisi'ni destekler. Çift Kanallı Bellek Teknolojisi'ni uygulamadan önce, uygun yükleme hakkında sayfa 12'deki bellek modüllerinin yükleme kılavuzunu okuduğunuzdan emin olun.
3. İşletim sistemi kısıtlaması nedeniyle, Windows® 7 / Vista™ / XP altında sistem kullanımı için ayırmak için gerçek bellek boyutu 4 GB'den az olabilir. 64-bit CPU'lu Windows® OS için bu tür bir sınırlama yoktur.
4. Maksimum paylaşılan bellek boyutu yonga seti satıcısı tarafından tanımlanır ve değişebilir. Lütfen en son bilgileri için AMD web sitesini kontrol edin.
5. Mikrofon çıkışı için, bu anakart hem stereo hem de mono modlarını destekler. Ses çıkışı için, bu anakart 2 kanallı, 4 kanallı, 6 kanallı ve 8 kanallı modları destekler. Düzgün bağlantı için sayfa 3'teki tabloyu kontrol edin.
6. Windows® ortamında en iyi sistem performansını almak için donanım izleme işleviyle sisteminizi izleyen ve donanım cihazlarınızı aşırı hızlandıran kullanıcı dostu bir ASRock aşırı hızlandırma aracıdır. ASRock OC Tunerin çalışma prosedürleri için lütfen web sitemizi ziyaret edin.
   ASRock web sitesi: http://www.asrock.com

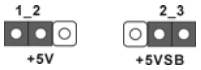
7. Gelişmiş tescilli donanım ve yazılım tasarımı özelliği olan Akıllı Enerji Tasarrufu, paralel olmayan güç tasarrufları sağlayan, devrim niteliğinde bir teknolojidir. Voltaj regülatörü, CPU çekirdekleri boştayken etkinliği geliştirmek için çıkış fazı sayısını azaltabilir. Diğer bir deyişle, üstün güç tasarrufu sağlar ve bilgisayarın performansından ödün vermeden güç etkinliğini geliştirir. Akıllı Enerji Tasarrufu işlevini kullanmak için, lütfen BIOS ayarlarında önceden Cool 'n' Quiet seçeneğini etkinleştirin. Akıllı Enerji Tasarrufu'nun çalışma prosedürleri için lütfen web sitemizi ziyaret edin. ASRock web sitesi: http://www.asrock.com
8. ASRock Anında Flash, Flash ROM'a katıştırılmış bir BIOS flash yardımcı programıdır. Bu kullanışlı BIOS güncelleme aracı, sistem BIOS'unu MS-DOS veya Windows® gibi ilk önce işletim sistemine girmeden güncellemenizi sağlar. Bu yardımcı programla, POST sırasında <F6> tuşuna basabilirsiniz veya BIOS ayarları menüsünün ASRock Anında Flash'a erişmesi için <F2> tuşuna basabilirsiniz. Bu aracı başlatın ve yeni BIOS dosyasını USB flash sürücünüze, diskete veya sabit sürücüye kaydedin, sonra BIOS'unuzu yalnızca birkaç tıklatma ile ek bir disket veya diğer karmaşık flash yardımcı programlarını hazırlamadan güncelleyebilirsiniz. Lütfen USB flash sürücünün veya sabit diskin FAT32/16/12 dosya sistemi kullanması gerektiğini unutmayın.
9. Yazılım adı OC DNA'dır ve bu ad harfi harfine özelliklerini anlatır. OC DNA, ASRock tarafından geliştirilmiş özel bir yardımcı programdır, kullanıcının OC ayarlarını kaydetmesi ve başkalarıyla paylaşması için uygun bir yol sağlar. İşletim sistemi altında aşırı hızlandırma kaydınızı kaydetmenize yardımcı olur ve aşırı hızlandırma ayarlarının karmaşık kayıt işlemini kolaylaştırır. OC DNA sayesinde, OC ayarlarınızı bir profil olarak kaydedebilir ve arkadaşlarınızla paylaşabilirsiniz! Arkadaşlarınız sizinkiyle aynı OC ayarlarına sahip olmak için OC profilini kendi sistemlerine yükleyebilir! Lütfen OC profilinin yalnızca aynı anakartta paylaşılabileceğini ve çalışabileceğini unutmayın.
10. iPhone/iPod/iPad Touch gibi Apple cihazlarınızı şarj etmek için daha hızlı ve daha özgür bir biçimde şarj etmek istiyorsanız, ASRock sizin için mükemmel bir çözüm hazırladı - ASRock APP Charger. Sadece APP Charger sürücünü kurarak, iPhone'unuzu bilgisayarınızdan daha çabuk ve eskisinden 40% daha hızlı şekilde şarj edebilirsiniz. ASRock APP Charger birçok Apple cihazını aynı anda ve hızlı bir biçimde şarj etmenize olanak tanır ve hatta bilgisayarınız Bekleme modunda (S1), RAM'de Askıya Al modunda (S3), uyku modunda (S4) veya kapalı(S5) iken sürekli şarj etmeyi destekler. APP Charger sürücüsü kurulu iken kolaylıkla şimdiye hiç olmadığı kadar harika bir şarj deneyimi yaşayabilirsiniz.
ASRock internet sitesi: http://www.asrock.com/Feature/AppCharger/index.asp

11. Bu anakart adımsız kontrole izin verse de aşırı hızlandırma uygulamanız önerilmez. Önerilen CPU veri yolu frekansları dışındaki frekanslar sistemin dengesiz olmasına veya CPU'nun zarar görmesine neden olabilir.
12. CPU aşırı ısınması algılandığında, sistem otomatik olarak kapatılır. Sistemi devam ettirmeden önce, lütfen anakarttaki CPU fanının düzgün çalıştığını kontrol edin ve güç kablosunu çıkarın, sonra geri takın. Isı geçişini artırmak için, PC sistemini yüklediğinizde CPU ile ısı emici arasına ısı macunu sürmeyi unutmayın.
13. Enerji Kullanan Ürün anlamına gelen EuP, tamamlanmış sistemler için güç tüketimini tanımlamak için Avrupa Birliği tarafından düzenlenen bir gerekliliktir. EuP'a göre, kapalı mod durumunda tamamlanmış sistemin toplam AC gücü 1,00W altında olmalıdır. EuP standardını karşılamak için, EuP hazır anakart ve EuP hazır güç kaynağı gerekir. Intel'in önerisine göre, EuP hazır güç kaynağının 100 mA akım tüketiminde 5v beklemede güç etkinliği %50'den yüksektir standardını karşılaması gerekir. EuP hazır güç kaynağı seçimi için, daha fazla ayrıntı için güç kaynağı üreticisine başvurmanızı öneririz.

1.3 Jumper'ların Ayarı

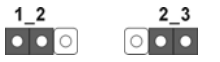
Şekilde jumper'ların nasıl ayarlandıkları gösterilmektedir. Jumper kapağı pinler üzerine yerleştirildiğinde jumper "Kapalı" dır. Jumper kapağı pinler üzerindeyken jumper "Açık" tır. Şekilde pin1 ve pin2'si "Kapalı" olan jumper kapağı bu 2 pine yerleştirilmiş 3-pinli jumper gösterilmektedir.



Jumper	Ayar	
PS2 USB PW1 (bkz. s.2, No. 1)		PS/2 veya USB uyandırma olayları için +5VSB'yi (bekleme) etkinleştirmek için pin2, pin3'ü kapatın.

Not: +5VSB'yi seçmek için, güç kaynağı tarafından sağlanan 2 Amp ve daha yüksek bekleme akımı gerektirir.

CMOS'u temizleme
(CLRCMOS1, 3-pinli jumper)
(bkz. s.2 No. 14)

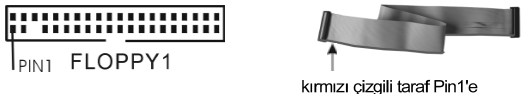


Not: CLRCMOS1, CMOS içindeki verileri temizlemenizi sağlar. CMOS'daki veriler sistem parolası, tarih, saat ve sistem ayar parametreleri gibi sistem ayar bilgilerini içerir. Sistem parametrelerini temizlemek ve varsayılan ayarlara sıfırlamak için, lütfen bilgisayarı kapatın ve güç kablosunu güç kaynağından çıkarın. 15 saniye bekledikten sonra, CLRCMOS1'da pin2 ve pin3'ü kapatmak için 5 saniye kadar bir jumper kapağı kullanın. Ancak, lütfen BIOS'u güncelledikten sonra CMOS haklarını temizlemeyin. BIOS güncellemesini bitirdikten hemen sonra CMOS'u temizlemeniz gerekiyorsa, önce sistemi açmanız gerekir ve sonra CMOS temizleme eylemini yapmadan önce kapatmanız gerekir.

1.4 Yerleşik Fişler ve Konektörler

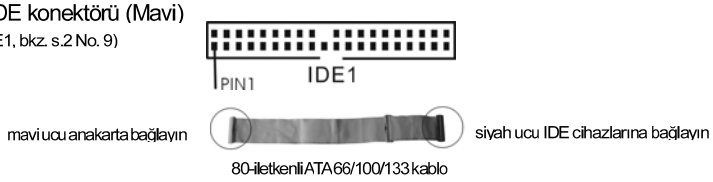
Yerleşik fişler ve konektörler jumper DEĞİLDİR. Bu fişlerin ve konektörlerin üzerine jumper kapakları YERLEŞTİRMEYİN. Fişlerin ve konektörlerin üzerine jumper kapakları yerleştirmek anakartın kalıcı olarak zarar görmesine neden olabilir!

Disket Konektörü
(33-pinli DİSKET1)
(bkz. s.2 No. 26)



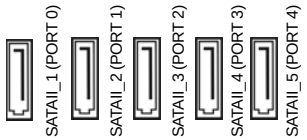
Not: Kablonun kırmızı çizgili tarafının konektörün Pin1 tarafına takıldığından emin olun.

Birincil IDE konektörü (Mavi)
(39-pinli IDE1, bkz. s.2 No. 9)



Not: Ayrıntılar için lütfen IDE cihazı satıcınızın talimatlarına bakın.

Seri ATAII Konektörler
(SATAII 1 (PORT 0): bkz. s.2, No. 21)
(SATAII 2 (PORT 1): bkz. s.2, No. 20)
(SATAII 3 (PORT 2): bkz. s.2, No. 19)
(SATAII 4 (PORT 3): bkz. s.2, No. 18)
(SATAII 5 (PORT 4): bkz. s.2, No. 17)

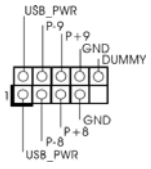


Bu dört Seri ATAII (SATAII) konektör, dahili depolama cihazları için SATA veri kablolarını destekler. Geçerli SATAII arayüzü 3,0 Gb/sn veri aktarım hızına izin verir.

Seri ATA (SATA) Veri Kablosu
(İsteğe bağlı)

SATA veri kablosunu her iki ucu da SATA / SATAII sabit diskine veya anakarttaki SATAII konektörüne bağlanabilir.

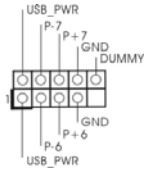
USB 2.0 Fişleri
(9-pinli USB8 9)
(bkz. s.2 No. 10)



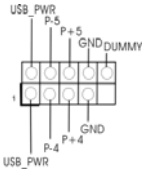
G/Ç panelindeki varsayılan dört USB 2.0 portundan başka, bu anakartta üç USB 2.0 fişi bulunur. Her USB 2.0 fişi iki USB 2.0 portunu destekler.

Türkçe

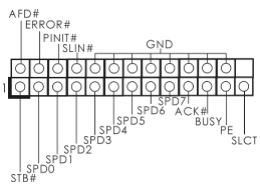
(9-pinli USB6_7)
(bkz. s.2 No. 11)



(9-pinli USB4_5)
(bkz. s.2 No. 12)

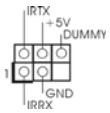


Yazdırma Portu Fişi
(25-pinli LPT1)
(bkz. s.2 No. 25)



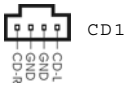
Bu, yazdırma portu kablosu için yazıcı cihazlarının uygun bağlanmasını sağlayan bir arayüzdür.

Kızılötesi Modülü Fişi
(5-pinli IR1)
(bkz. s.2 No. 30)



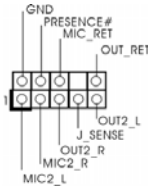
Bu fiş, isteğe bağlı bir kablosuz aktarma ve alma kızılötesi modülünü destekler.

Dahili Ses Konektörleri
(4-pinli CD1)
(bkz. s.2 No. 28)



Bu konektör, CD-ROM, DVD-ROM, TV tuner kartı veya MPEG kartı gibi ses kaynaklarından stereo ses girişi almanızı sağlar.

Ön Panel Ses Fişi
(9-pinli HD_SES1)
(bkz. s.2 No. 29)



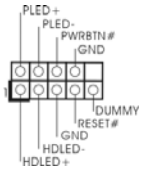
Bu, panel ses kablosu için uygun bağlantı sağlayan ve ses cihazlarını kontrol etmeyi sağlayan bir arayüzdür.

1. Yükse Tanımlı Ses Jak Duyarlılığını destekler, ancak kasadaki panel kablosunun HDA'nın düzgün çalışmasını desteklemesi gerekir. Lütfen sisteminizi yüklemek için kılavuzumuzdaki ve kasa kılavuzundaki talimatları izleyin.
2. AC'97 ses paneli kullanıyorsanız, lütfen ön panel ses fişine aşağıdaki gibi takın:
   A. Mic_IN'i (MIC) MIC2_L'ye bağlayın.
   B. Audio_R'yi (RIN) OUT2_R'ye ve Audio_L'yi (LIN) OUT2_L'ye bağlayın.

Türkçe

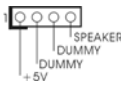
C. Ground'u (GND) Ground'a (GND) bağlayın.
D. MIC_RET ve OUT_RET yalnızca HD ses paneli içindir. Bunları AC'97 ses paneli için bağlamanız gerekmez.
E. BIOS Ayarları Yardımcısı'na Girin. Gelişmiş Ayarlar'a girin ve sonra Yong Seti Yapılandırması'nı seçin. Ön Panel Kontrol seçeneğini [Otomatik] iken [Etkin] olarak ayarlayın.
F. Windows sistemine girin. Realtek HD Audio Manager'a girmek için sağ alt taraftaki simgeyi tıklatın.
Windows® XP / XP 64-bit OS için:
"Ses G/Ç"yi tıklatın, "Konektör Ayarları"  öğesini seçin, "Ön panel jak algılamasını devre dışı bırak"ı seçin ve değişikliği "Tamam"a basarak kaydedin.
Windows® 7 / 7 64-bit / Vista™ / Vista™ 64-bit İS için:
Sağ üstteki "Klasör"  simgesini tıklatın, "Ön panel jak algılamasını devre dışı bırak"ı seçin ve değişikliği "Tamam"a basarak kaydedin.
G. Ön mikrofonu etkinleştirmek için.
Windows® XP / XP 64-bit OS için:
Lütfen varsayılan kayıt cihazı olarak "Ön Mikrofon"u seçin.
Sesinizi ön mikrofondan duymak istiyorsanız, lütfen "Oynat" bölümünün "Ön Mikrofon" kısmında "Sessiz" simgesinin seçimini kaldırın.
Windows® 7 / 7 64-bit / Vista™ / Vista™ 64-bit İS için:
Realtek Kontrol panelinde "Ön Mikrofon" Sekmesine gidin.
Ön Mikrofonu varsayılan kayıt cihazı yapmak için "Varsayılan Cihazı Ayarla"yı tıklatın.

Sistem Paneli Fişi
(9-pinli PANEL1)
(bkz. s.2 No. 23)



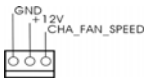
Bu fiş, birçok sistem ön paneli işlevini barındırır.

Kasa Hoparlörü Fişi
(4-pinli HOPARLÖR 1)
(bkz. s.2 No. 22)



Lütfen kasa hoparlörünü bu fişe bağlayın.

Kasa/güç Fan Konektörü
(3-pinli CHA_FAN1)
(bkz. s.2 No. 16)



(3-pinli PWR_FAN1)
(bkz. s.2 No. 13)

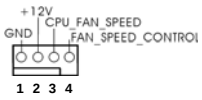
Lütfen kasa fan kablolarını fanına bu konektöre bağlayın ve siyah kabloyu toprak pinine bağlayın.

Türkçe

CPU Fan Konektörü

(4-pinli CPU FAN1)

(bkz. s.2 No. 5)



Lütfen fan kablolarını CPU fanına bu konektöre bağlayın ve siyah kabloyu toprak pinine bağlayın.

Bu anakart 4-Pinli CPU fan (Sessiz Fan) desteği sağlasa da, 3-Pinli CPU fan hızı kontrol işlevi olmadan bile hala başarılı bir şekilde çalışabilir. 3-Pinli CPU fanı bu konektördeki CPU fan konektörüne bağlamayı planlıyorsanız, lütfen Pin 1-3'e bağlayın.

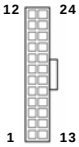
Pin 1-3 Bağlı

3-Pinli Fanı Takma

ATX Güç Konektörü

(24-pinli ATXPWR1)

(bkz. s.2 No. 8)



Lütfen bir ATX güç kaynağını bu konektöre bağlayın.

Bu anakart 24-pinli ATX güç konektörü sağlasa da geleneksel bir 20-pinli ATX güç kaynağı bağlarsanız da çalışabilir. 20-pinli ATX güç kaynağını kullanmak için, lütfen güç kaynağınızı Pin 1 ve Pin 13'le birlikte takın.

20-Pinli ATX Güç Kaynağını Takma

ATX 12V Güç Konektörü

(4-pinli ATX12V1)

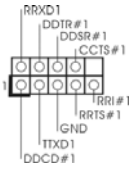
(bkz. s.2 No. 2)

Lütfen bir ATX 12V güç kaynağını bu konektöre bağlayın.

Seri port Fişi

(9-pinli COM1)

(bkz. s.2 No.27)



Bu COM1 fişi bir seri port modülünü destekler.

Türkçe

2. BIOS Bilgileri

Anakarttaki Flash Bellek BIOS Ayarları Yardımcı Programını içerir. Bilgisayarı başlattığınızda, lütfen Otomatik Güç Sınaması (POST) sırasında BIOS Ayarları yardımcı programına girmek için <F2> tuşuna basın; aksi halde, POST test rutinlerine devam eder. BIOS Ayarlarına POST'tan sonra girmek istiyorsanız, lütfen <Ctl> + <Alt> + <Delete> tuşlarına basarak veya sistem kasasındaki sıfırlama düğmesine basarak sistemi yeniden başlatın. BIOS Ayarları programı kullanıcı dostu olacak şekilde tasarlanmıştır. Çeşitli alt menüler arasında dolaşmanıza ve önceden belirlenen seçenekler arasından seçim yapmanıza izin veren menü tabanlı bir programdır. BIOS Ayarları hakkında ayrıntılı bilgi için, lütfen Destek CD'sinde bulunan Kullanıcı Kılavuzu'na (PDF dosyası) başvurun.

3. Yazılım Destek CD'si bilgileri

Bu anakart çeşitli Microsoft® Windows® işletim sistemleri destekler: 7 / 7 64-bit / Vista™ / Vista™ 64-bit / XP / XP Media Center / XP 64-bit. Anakartla birlikte gelen Destek CD'si anakart özelliklerini genişleten gerekli sürücüleri ve kullanışlı yardımcı programları içerir. Destek CD'sini kullanmaya başlamak için, CD'yi CDROM sürücünüze takın. Bilgisayarınızda "OTOMATİK KULLAN" özelliği etkinleştirilmişse, Ana Menüyü otomatik olarak görüntüler. Ana Menü otomatik olarak görüntülenmezse, menüleri görüntülemek için Destek CD'sinin “BIN” klasöründeki "ASSETUP.EXE" dosyasını bulun ve çift tıklatın.

1. 主機板簡介

謝謝你採用了華擎 *939A785GMH* 主機板，本主機板由華擎嚴格製造，品質可靠，穩定性好，能夠獲得卓越的性能。此快速安裝指南包括了主機板介紹和分步驟安裝指導。您可以查看支持光碟裡的使用手冊了解更詳細的資料。

由於主板規格和BIOS軟體將不斷更新，本手冊之相關內容變更恕不另行通知。請留意華擎網站上公布的更新版本。你也可以在華擎網站找到最新的顯示卡和CPU支援列表。
華擎網址：http://www.asrock.com
如果您需要與此主機板有關的技術支援，請參觀我們的網站以了解您使用機種的規格訊息。
www.asrock.com/support/index.asp

1.1 包裝盒內物品

華擎 *939A785GMH* 主機板
（Micro ATX規格: 9.6英吋 X 8.6英吋, 24.4公分 X 21.8公分）
華擎 *939A785GMH* 快速安裝指南
華擎 *939A785GMH* 支援光碟
兩條Serial ATA(SATA)數據線(選配)
一塊I/O 擋板

1.2 主機板規格

架構	- Micro ATX 規格: 9.6 英吋 X 8.6 英吋, 24.4 公分 X 21.8 公分 - CPU 供電電路固態電容
處理器	- 支援 Socket 939 處理器:AMD Athlon™ 64FX / 64X2 / 64 處理器 - 支援 AMD Cool 'n' Quiet 冷靜技術 - 支援 FSB 1000 MHz (2.0 GT/s) - 支援非同步超頻技術 (詳見**警告 1**) - 支援 Hyper-Transport 技術
晶片組	- 北橋: AMD 785G - 南橋: AMD SB710
系統記憶體	- 支援雙通道記憶體技術 (見**警告 2**) - 4 個 DDR DIMM 插槽 - 支援 DDR 400/333/266 non-ECC、un-buffered 記憶體 - 系統最高支援 4GB 容量 (見**警告 3**)
擴充插槽	- 1 x PCI Express 2.0 x16 插槽(藍色@ x16 模式) - 1 x PCI Express 2.0 x1 插槽 - 2 x PCI 插槽 - 支援 ATI™ Hybrid CrossFireX™
內建顯示	- 內建 AMD Radeon HD 4200 顯示 - DX10.1 級別 iGPU, Shader Model 4.1 技術 - 最大共享記憶體 512MB (見**警告 4**) - 支援三個 VGA 輸出選項:D-Sub、DVI-D 和 HDMI - 支援 HDMI,最高解析度達 1920x1200 (1080p) - 支援 Dual-link DVI,最高解析度達 2560x1600 @ 75Hz - 支援 D-Sub,最高解析度達 2048x1536 @ 60Hz - DVI 和 HDMI 接口支援 HDCP 功能 - DVI 和 HDMI 接口可播放 1080p 藍光光碟(BD) / HD-DVD 光碟
音效	- 7.1 聲道高清晰音效 (Realtek ALC888 音效編解碼器)
網路功能	- PCIE x1 Gigabit LAN 10/100/1000 Mb/s - Realtek RTL8111DL - 支援網路喚醒 (Wake-On-LAN) - 支援 PXE
Rear Panel I/O (**後背板輸入/輸出接口**)	I/O 界面 - 1 個 PS/2 鍵盤接口 - 1 個 D-Sub 接口 - 1 個 DVI-D 接口 - 1 個 HDMI 接口

	- 1 個光纖 SPDIF 輸出接口 - 4 個可直接使用的 USB 2.0 接口 - 1 個 eSATA2 接口 - 1 個 RJ-45 區域網接口與 LED 指示燈(ACT/LINK LED 和 SPEED LED) - 高清晰音效插孔：後置喇叭 / 中置喇叭 / 低音喇叭 / 音效輸入 / 前置喇叭 / 麥克風 (見**警告 5**)
接頭	- 5 x SATA2 3.0Gb/s 接頭, 支援 RAID (RAID 0, RAID 1, RAID 5, RAID 10 和 JBOD), NCQ, AHCI 和“熱插拔”功能 - 1 x ATA133 IDE 插座 (最高支援 2 個 IDE 驅動器) - 1 x 磁碟機接口 - 1 x 紅外線模組接頭 - 1 X 序列埠 - 1 x 印表機接針 - CPU/ 機箱 / 電源風扇接頭 - 24 針 ATX 電源接頭 - 4 針 12V 電源接頭 - 內置音效接頭 - 前置音效接頭 - 3 x USB 2.0 接口 (可支援 6 個額外的 USB 2.0 接口)
BIOS	- 8Mb AMI BIOS - 採用 AMI BIOS - 支援即插即用 (Plug and Play, PnP) - ACPI 1.1 電源管理 - 支援 jumperfree 免跳線模式 - 支援 SMBIOS 2.3.1 - VCCM 、NB 電壓多功能調節器
支援光碟	- 驅動程式, 工具軟體, 防毒軟體 (試用版), CyberLink MediaEspresso 6.5 試用版, 華擎軟體套餐(CyberLink DVD 套餐 - OEM 與試用版;Creative Sound Blaster X-Fi MB - 試用版;華擎 MAGIX 多媒體套餐 - OEM)
獨家功能	- 華擎 OC Tuner (詳見**警告 6**) - 華擎 Intelligent Energy Saver (見**警告 7**) - 華擎即時開機功能 - 華擎 Instant Flash (見**警告 8**) - 華擎 OC DNA (見**警告 9**) - 華擎 APP Charger (見**警告 10**) - Hybrid Booster(安心超頻技術): - 支援 CPU 無級頻率調控 (見**警告 11**) - 華擎 U-COP (見**警告 12**) - Boot Failure Guard (B.F.G., 啟動失敗恢復技術)

硬體監控器	- CPU 溫度偵測 - 主板溫度偵測 - CPU/ 機箱 / 電源風扇轉速計 - CPU 靜音風扇 - 電壓範圍：+12V, +5V, +3.3V, 核心電壓
操作系統	- Microsoft® Windows® 7/7 64 位元/Vista™/Vista™ 64 位元/XP/XP 多媒體中心/XP 64 位元
認證	- FCC, CE, WHQL - 支援ErP/EuP(需要同時使用支援ErP/EuP的電源供應器)(見**警告13**)

* 請參閱華擎網站了解詳細的產品訊息: http://www.asrock.com

警告

請了解超頻具有不可避免的風險,這些超頻包括調節 BIOS 設置、運用非同步超頻技術或使用第三方超頻工具。超頻可能會影響您的系統穩定性,甚至會導致系統組件和設備的損壞。這種風險和代價須由您自己承擔,我們對超頻可能導致的損壞不承擔責任。

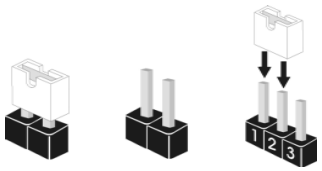
警告!

1. 這款主板支援非同步超頻技術。請閱讀第 27 頁的" Untied Overclocking Technology"(非同步超頻技術)了解詳情。
2. 這款主板支持雙通道記憶體技術。在您使用雙通道記憶體技術之前,為能正確安裝,請確認您已經閱讀了第 12 頁的記憶體模組安裝指南。
3. 由於作業系統的限制,在 Windows® 7 / Vista™ / XP 下,供系統使用的實際記憶體容量可能小於 4GB。對於 Windows® 作業系統搭配 64 位元 CPU 來說, 不會存在這樣的限制。
4. 最大共享記憶體大小由晶片組廠商定義並且可能更改。請查閱 AMD 網站了解最新訊息。
5. 在麥克風輸入方面,這款主機板支援立體聲和單聲道這兩種模式。在音效輸出方面,這款主機板支持 2 聲道、4 聲道、6 聲道以及 8 聲道模式。請查閱第 3 頁的表格瞭解正確的連接方式。
6. 這是一款具有易使用介面的華擎超頻工具,讓您通過硬體監控功能監控您的系統,幫助您在 Windows® 環境下對硬體進行超頻以獲得最佳的系統性能。請參閱我們的網站了解 ASRock OC Tuner 的使用方法。
   華擎網站: http://www.asrock.com
7. Intelligent Energy Saver 採用先進的軟硬體專利設計,這項革新技術帶來極佳的節能效果。當 CPU 核心閒置時,電壓調節器可以減小輸出電壓的相數,有助於提升能源效率。換句話說,它可以在不犧牲性能的前提下,讓系統更省電,並提高能源效率。為了使用 Intelligent Energy Saver 的功能,請在 BIOS 的進階設置裡啟用 Cool 'n' Quiet 選項。請參閱我們的網站了解 Intelligent Energy Saver 的使用方法。
   華擎網站: http://www.asrock.com

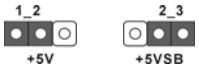
8. 華擎 Instant Flash 是一個內建於 Flash ROM 的 BIOS 更新工具程式。這個方便的 BIOS 更新工具可讓您無需進入操作系統(如 MS-DOS 或 Windows®)即可進行 BIOS 的更新。在系統開機自檢過程中按下 <F6> 鍵或在 BIOS 設置菜單中按下 <F2> 鍵即可進入華擎 Instant Flash 工具程式。啟動這一程式後,只需把新的 BIOS 文件保存在隨身碟、磁盤或硬碟中,輕鬆點選滑鼠就能完成 BIOS 的更新,而不再需要準備額外的磁碟片或其他複雜的更新程式。請注意:隨身碟或硬碟必須使用 FAT32/64 文件系統。
9. 軟體的名字本身 -OC DNA 已經向您透露了它的用途。OC DNA 是華　擎獨家研發的創新工具程式,它為用戶提供一種記錄超頻設置並與他人分享的簡單方法。這個好用的工具程式可幫助您在操作系統中存取超頻記錄,大大簡化了超頻設置的記錄過程。有了 OC DNA,您可以將超頻設置存取為一個設置文件並與朋友分享!請注意:超頻設置文件只能在同款的主機板上分享和使用。
10. 若您想要更快速、更自由地為您的蘋果設備,如　iPhone/iPad/iPod touch 充電,華擎為您提供了一個絕妙的解決方案 – 華擎 APP Charger。只需安裝 APP Charger 驅動程式,用電腦為 iPhone 充電最多可比以往快 40%。華擎 APP Charger 讓您可以同時為多部蘋果設備快速充電,甚至可以在電腦進入待命(S1)、待命(S3)、休眠(S4)或關機(S5)模式下持續為設備充電。只需安裝了 APP Charger 驅動程式,您立刻就能擁有非凡的充電體驗。
11. 儘管本主板提供無級頻率調控,但不推薦用戶超頻使用。不同於標準 CPU 前匯流排的非標準頻率可能會使系統不穩定,甚至會損害 CPU 和主板。主板的處理器主頻由跳線裝置決定。
12. 當檢測到 CPU　過熱問題時,系統會自動關機。在您重新啟動系統之前,請檢查主板上的 CPU 風扇是否正常運轉並拔出電源線,然後再將它插回。為了提高散熱性,在安裝 PC 系統時請在 CPU 和散熱器之間塗上一層散熱膏。
13. EuP, 全稱 Energy Using Product(能耗產品),是歐盟用來定義完整系統耗電量的規定。根據 EuP 的規定,一個完整系統在關機模式下的交流電總消耗必須在 1.00W 以下。為符合 EuP 標準,您需要同時具備支援 EuP 的主機板和支援 EuP 的電源供應器。根據 Intel® 的建議,支援 EuP 的電源供應器必須符合在 100mA 電流消耗時,5Vsb 電源效率高於 50%。有關支援 EuP 的電源供應器選擇方面的詳情,我們建議您諮詢電源供應器的製造商。

1.3 跳線設置

插圖所示的就是設置跳線的方法。當跳線帽放置在針腳上時，這個跳線就是“短接”。如果針腳上沒有放置跳線帽， 這個跳線就是“開路”。插圖顯示了一個 3 針腳的跳線，當跳線帽放置在針腳 1 和針腳 2 之間時就是“短接”。



短接　　開路

接腳	設定	
PS2_USB_PW1 (見第 2 頁第 1 項)		短接 pin2 和 pin3，就可以設置 +5VSB(待機)，使 PS/2 或 USB 能喚醒系統。

注意： 選擇 +5VSB，電源必須能提供 +2 AMP 或更高的待機電流。

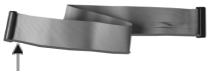
清除 CMOS
(CLRCMOS1, 3 針腳跳線)
(見第 2 頁第 14 項)

默認設置　　清除 CMOS

注意： CLRCMOS1 允許您清除 CMOS 裏的資料。在 CMOS 裏的資料包括系統設置資訊，例如系統密碼，日期，時間及系統設置參數。為了清除並重置系統參數到默認設置，請關閉電腦並拔掉電源線，然後用跳線帽短接 CLRCMOS1 上的 pin2 和 pin3 五秒鐘。如果您需要再完成 BIOS 刷新時清除 CMOS，您必須先啟動系統，然後在您進行 CMOS 清除操作之前關閉系統。

1.4 接頭

此類接頭是不用跳線帽連接的，請不要用跳線帽短接這些接頭。
跳線帽不正確的放置將會導致主機板的永久性損壞!

接頭	圖示	說明
磁碟機接頭 (33針 FLOPPY1) (見第2頁第26項)		 將標示紅色的一邊插入第1針腳(Pin1)

注意： 請確保數據線標紅色的一邊插入接頭第1針腳(Pin1)的位置。

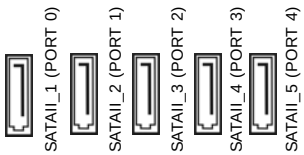
主IDE接頭(藍色)
(39針 IDE1，見第2頁第9項)

藍色端接到主機板上  黑色端接到硬碟驅動器上

80針的ATA 66/100/133排線

注意： 請查閱您的IDE驅動器供應商提供的說明書了解詳細資料。

Serial ATAII 接口
(SATAII_1 (PORT 0):
見第2頁第21項)
(SATAII_2 (PORT 1):
見第2頁第20項)
(SATAII_3 (PORT 2):
見第2頁第19項)
(SATAII_4 (PORT 3):
見第2頁第18項)
(SATAII_5 (PORT 4):
見第2頁第17項)



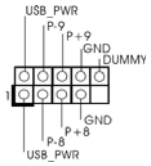
這裡有五組Serial ATAII (SATAII)接口支援SATA或SATAII硬碟作為內部儲存設置。目前SATAII界面理論上可提供高達3.0Gb/s的數據傳輸速率。

Serial ATA (SATA)
據線
(選配)

SATA數據線的任意一端均可數連接SATA/SATAII硬碟或者主機板上的SATAII接口。

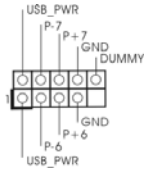
繁體中文

USB 2.0 擴充接頭
(9針 USB8_9)
(見第2頁第10項)

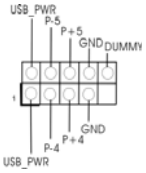


除了位於I/O面板的四個USB 2.0接口之外，這款主板有三組USB 2.0接針。每組USB 2.0接針可以支援兩個USB 2.0接口。

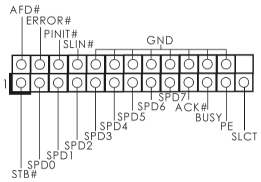
(9針 USB6_7)
(見第2頁第11項)



(9針 USB4_5)
(見第2頁第12項)

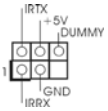


印表機接針
(25針 LPT1)
(見第2頁第25項)



這是一個連接印表機的接口，方便您連接印表機設備。

紅外線模組接頭
(5針 IR1)
(見第2頁第30項)

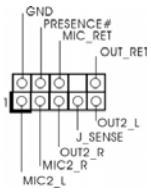


這個接頭支援一個選配的模組，可用來無線傳輸和接收紅外線。

內置音效接頭
(4針 CD1)
(CD1 見第2頁第28項)

可以透過CD-ROM，DVD-ROM，TV Tuner或MPEG卡接收音效輸入。

前置音效接頭
(9針 HD_AUDIO1)
(見第2頁第29項)

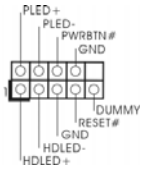
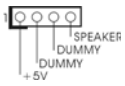


可以方便連接音效設備。

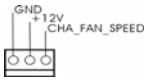
1. 高清晰音效(High Definition Audio, HDA)支援智能音效接口檢測功能(Jack Sensing),但是機箱面板的連線必須支持HDA才能正常使用。請按我們提供的手冊和機箱手冊上的使用說明安裝您的系統。

2. 如果您使用 AC' 97 音效面板,請按照下面的步驟將它安裝到前面板音效接針:

A. 將 Mic_IN(MIC)連接到 MIC2_L。
B. 將 Audio_R(RIN)連接到 OUT2_R,將 Audio_L(LIN)連接到 OUT2_L。
C. 將 Ground(GND)連接到 Ground(GND)。
D. MIC_RET 和 OUT_RET 僅用於 HD 音效面板。您不必將它們連接到 AC' 97 音效面板。
E. 進入 BIOS 設置程序。進入 Advanced Settings(進階設置)並選擇 Chipset Configuration(晶片組配置)。將 Front Panel Control (前面板控制)選項由 Auto(自動)設置為 Enabled(啟用)。
F. 進入 Windows® 系統。點選右下角任務欄上的圖標進入 Realtek HD Audio Manager(Realtek 高清晰音效管理器)。
Windows® XP/XP 64 位元操作系統:
點選" Audio I/O"(音效輸入 / 輸出接口),點選" Connector Settings"(連接設置)  ,選擇" Disable front panel jack detection"(關閉前面板插孔檢測)並點擊" OK" 保存更改。
Windows® 7/7 64 位元 /Vista™/Vista™ 64 位元操作系統:
點選右上角的" Folder"(文件)圖標  選擇" Disable front panel jack detection"(關閉前面板插孔檢測)並點選" OK" 保存更改。
G. 啟用前置麥克風。
Windows® XP/XP 64 位元操作系統:
請選擇" Front Mic"(前置麥克風)作為內定錄音設備。
如果您想透過前置麥克風聆聽您的聲音,請點選" Playback"(播放)部分" Front Mic"(前置麥克風)一項裡的" Mute"(靜音)圖標。
Windows® 7/7 64 位元 /Vista™/Vista™ 64 位元操作系統:
進入 Realtek 控制面版的" Front Mic"(前置麥克風)選項。
點選" Set Default Device"(設置內定設備)將前置麥克風設置為內定錄音設備。

系統面板接頭 (9 針 PANEL1) (見第 2 頁第 23 項)		可接各種不同燈，電源開關及重啟鍵等各種連線。
機箱喇叭接頭 (4 針 SPEAKER1) (見第 2 頁第 22 項)		請將機箱喇叭連接到這個接頭。

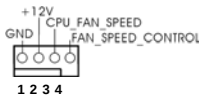
機箱, 電源風扇接頭
(3針 CHA_FAN1)
(見第2頁第16項)



請將風扇連接線接到這個接頭，並讓黑線與接地的針腳相接。

(3針 PWR_FAN1)
(見第2頁第13項)

CPU 風扇接頭
(4針 CPU_FAN1)
(見第2頁第5項)



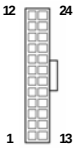
請將CPU 風扇連接線接到這個接頭，並讓黑線與接地的針腳相接。

雖然此主板支持4-Pin CPU風扇(Quiet Fan,靜音風扇),但是沒有調速功能的3-Pin CPU風扇仍然可以在此主板上正常運行。如果您打算將3-Pin CPU風扇連接到此主板的CPU風扇接口,請將它連接到Pin 1-3。

Pin 1-3連接

3-Pin風扇的安裝

ATX 電源接頭
(24針 ATXPWR1)
(見第2頁第8項)



請將ATX 電源供應器連接到這個接頭。

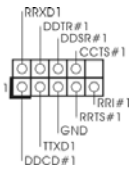
雖然此主機板提供24-pin ATX電源接口,但是您仍然可以使用傳統的20-pin ATX電源。為了使用20-pin ATX電源,請順著Pin 1和Pin 3插上電源接頭。

20-Pin ATX電源安裝說明

ATX 12V電源接口
(4針 ATX12V1)
(見第2頁第2項)

請注意，必需將帶有ATX 12V插頭的電源供應器連接到這個插座，這樣就可以提供充足的電力。如果不這樣做，就會導致供電故障。

序列埠
(9針COM1)
(見第2頁第27項)



這個序列埠COM1 支援一個序列埠的裝置。

繁體中文

2. BIOS 訊息

主板上的Flash Memory 晶片存儲了BIOS 設置程序。啟動系統，在系統開機自檢(POST)的過程中按下<F2>鍵，就可進入BIOS 設置程序，否則將繼續進行開機自檢之常規檢驗。如果需要在開機自檢後進入BIOS 設置程序，請按下 <Ctl> + <Alt> + <Delete>鍵重新啟動電腦，或者按下系統面板上的重開按鈕。功能設置程序儲存有主板自身的和連接在其上的設備的缺省和設定的參數。這些訊息用於在啟動系統和系統運行需要時，測試和初始化元件。有關BIOS 設置的詳細訊息，請查閱隨機支援光碟裡的使用手冊(PDF 文件)。

3. 支援光碟訊息

本主板支援各種微軟Windows® 操作系統：Microsoft® Windows® 7/7 64 位元/Vista™/Vista™ 64 位元/XP/XP 多媒體中心/XP 64 位元。主板附帶的支援光碟包含各種有助於提高主板效能的必要驅動和實用程式。請將隨機支援光碟放入光碟機裡，如果系統的“自動運行”功能已啟用，銀幕將會自動顯示主菜單。如果主菜單不能自動顯示，請查閱支援光碟內BIN 文件夾下的ASSETUP.EXE 文件並雙點它，即可調出主菜單。