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(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

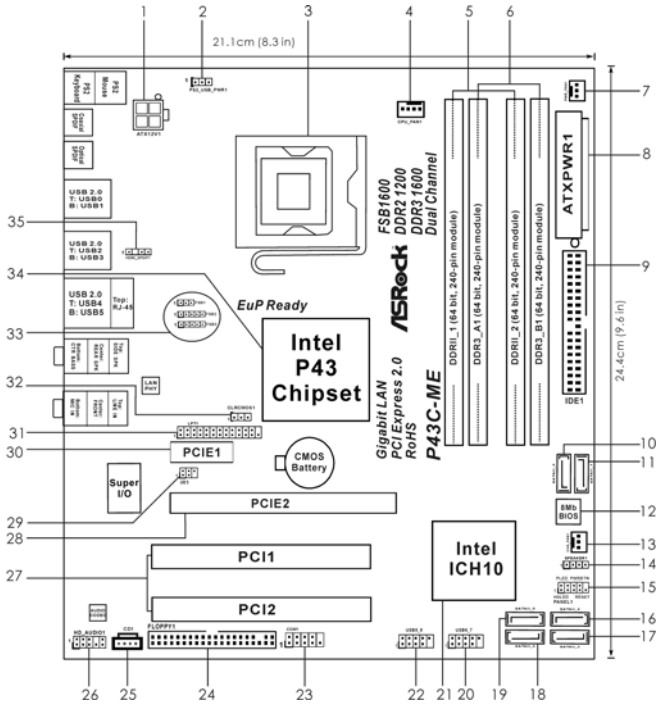
The Lithium battery adopted on this motherboard contains Perchlorate, a toxic substance controlled in Perchlorate Best Management Practices (BMP) regulations passed by the California Legislature. When you discard the Lithium battery in California, USA, please follow the related regulations in advance.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

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

Published November 2009

English

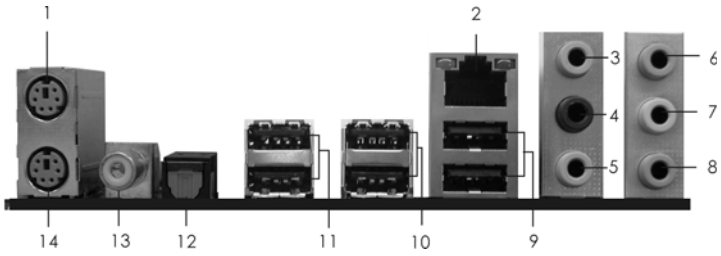
Motherboard Layout



1	ATX 12V Connector (ATX12V1)
2	PS2_USB_PWR1 Jumper
3	775-Pin CPU Socket
4	CPU Fan Connector (CPU_FAN1)
5	2 x 240-pin DDR2 DIMM Slots (Dual Channel: DDRII_1, DDRII_2; Yellow)
6	2 x 240-pin DDR3 DIMM Slots (Dual Channel: DDR3_A1, DDR3_B1; Blue)
7	Power Fan Connector (PWR_FAN1)
8	ATX Power Connector (ATXPWR1)
9	IDE1 Connector (IDE1, Blue)
10	SATAII Connector (SATAII_2 (Port 1), Red)
11	SATAII Connector (SATAII_1 (Port 0), Red)
12	SPI BIOS Chip
13	Chassis Fan Connector (CHA_FAN1)
14	Chassis Speaker Header (SPEAKER 1, Purple)
15	System Panel Header (PANEL1, Orange)
16	SATAII Connector (SATAII_4 (Port 3), Red)
17	SATAII Connector (SATAII_3 (Port 2), Red)
18	SATAII Connector (SATAII_5 (Port 4), Red)
19	SATAII Connector (SATAII_6 (Port 5), Red)
20	USB 2.0 Header (USB6_7, Blue)
21	South Bridge Controller
22	USB 2.0 Header (USB8_9, Blue)
23	COM Port Header (COM1)
24	Floppy Connector (FLOPPY1)
25	Internal Audio Connector: CD1 (Black)
26	Front Panel Audio Header (HD_AUDIO1, Lime)
27	PCI Slots (PCI1 - 2)
28	PCI Express 2.0 x16 Slot (PCIE2, blue)
29	Infrared Module Header (IR1)
30	PCI Express x1 Slot (PCIE1)
31	Print Port Header (LPT1, Purple)
32	Clear CMOS Jumper (CLRCMOS1)
33	FSB1/FSB2/FSB3 Jumpers
34	North Bridge Controller
35	HDMI_SPDIF Header (HDMI_SPDIF1, Yellow)

English

I/O Panel



1	PS/2 Mouse Port (Green)	8	Microphone (Pink)
* 2	LAN RJ-45 Port (LAN1)	9	USB 2.0 Ports (USB45)
3	Side Speaker (Gray)	10	USB 2.0 Ports (USB23)
4	Rear Speaker (Black)	11	USB 2.0 Ports (USB01)
5	Central / Bass (Orange)	12	Optical SPDIF Out Port
6	Line In (Light Blue)	13	Coaxial SPDIF Out 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.

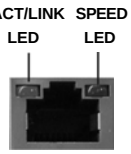
LAN Port LED Indications

Activity/Link LED

Status	Description
Off	No Link
Blinking	Data Activity
On	Link

SPEED LED

Status	Description
Off	10Mbps connection
Orange	100Mbps connection
Green	1Gbps connection



** 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. 4)	Central / Bass (No. 5)	Side Speaker (No. 3)
2	V	--	--	--
4	V	V	--	--
6	V	V	V	--
8	V	V	V	V

English

To enable Multi-Streaming function, you need to connect a front panel audio cable to the front panel audio header. After restarting your computer, you will find “VIA HD Audio Deck” tool on your system. Please follow below instructions according to the OS you install.

For Windows® XP / XP 64-bit OS:

Please click “VIA HD Audio Deck” icon  , and click “Speaker”. Then you are allowed to select “2 Channel”, “4 Channel”, “6 Channel” or “8 Channel”. Click “Power” to save your change.

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

Please click “VIA HD Audio Deck” icon  , and click “Advanced Options” on the left side on the bottom. In “Advanced Options” screen, select “Independent Headphone”, and click “OK” to save your change.

If you enable Multi-Streaming function, Side Speaker function will be disabled. You can only choose to enable either Multi-Streaming function or Side Speaker function.

English

1. Introduction

Thank you for purchasing ASRock ***P43C-ME*** 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.

This Quick Installation Guide contains introduction of the motherboard and step-by-step installation guide. More detailed information of the motherboard can be found in the user manual presented in 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 ***P43C-ME*** Motherboard
(Micro ATX Form Factor: 9.6-in x 8.3-in, 24.4 cm x 21.1 cm)
ASRock ***P43C-ME*** Quick Installation Guide
ASRock ***P43C-ME*** Support CD
One 80-conductor Ultra ATA 66/100/133 IDE Ribbon Cable
Two Serial ATA (SATA) Data Cables (Optional)
One I/O Panel Shield

English

1.2 Specifications

Platform	- Micro ATX Form Factor: 9.6-in x 8.3-in, 24.4 cm x 21.1 cm
CPU	- LGA 775 for Intel® Core™ 2 Extreme / Core™ 2 Quad / Core™ 2 Duo / Pentium® Dual Core / Celeron® Dual Core / Celeron®, supporting Penryn Quad Core Yorkfield and Dual Core Wolfdale processors - Supports FSB1600/1333/1066/800 MHz (see **CAUTION 1**) - Supports Hyper-Threading Technology (see **CAUTION 2**) - Supports Untied Overclocking Technology (see **CAUTION 3**) - Supports EM64T CPU
Chipset	- Northbridge: Intel® P43 - Southbridge: Intel® ICH10
Memory	- Dual Channel DDR3/DDR2 Memory Technology (see **CAUTION 4**) - 2 x DDR3 DIMM slots - Support DDR3 1600(OC)/1333/1066/800 non-ECC, un-buffered memory (see **CAUTION 5**) - Max. capacity of system memory: 8GB (see **CAUTION 6**) - 2 x DDR2 DIMM slots - Support DDR2 1200(OC)/1066/800/667 non-ECC, un-buffered memory (see **CAUTION 5**) - Max. capacity of system memory: 8GB (see **CAUTION 6**)
Expansion Slot	- 1 x PCI Express 2.0 x16 slot (blue @ x16 mode) - 1 x PCI Express x1 slot - 2 x PCI slots
Audio	- 7.1 CH HD Audio (VIA® VT1718S Audio Codec)
LAN	- PCIE x1 Gigabit LAN 10/100/1000 Mb/s - Realtek RTL8111DL - Supports Wake-On-LAN
Rear Panel I/O	I/O Panel - 1 x PS/2 Mouse Port - 1 x PS/2 Keyboard Port - 1 x Coaxial SPDIF Out Port - 1 x Optical SPDIF Out Port - 6 x Ready-to-Use USB 2.0 Ports - 1 x RJ-45 LAN Port with LED (ACT/LINK LED and SPEED LED) - HD Audio Jack: Side Speaker/Rear Speaker/Central/Bass/ Line in/Front Speaker/Microphone (see **CAUTION 7**)
Connector	- 6 x SATAII 3.0Gb/s connectors, support NCQ, AHCI and "Hot Plug" functions (see **CAUTION 8**)

English

	- 1 x ATA133 IDE connector (supports 2 x IDE devices) - 1 x Floppy connector - 1 x IR header - 1 x Print port header - 1 x COM port header - 1 x HDMI_SPDIF header - CPU/Chassis/Power FAN connector - 24 pin ATX power connector - 4 pin 12V power connector - CD in header - Front panel audio connector - 2 x USB 2.0 headers (support 4 USB 2.0 ports) (see **CAUTION 9**)
BIOS Feature	- 8Mb AMI BIOS - AMI Legal BIOS - Supports "Plug and Play" - ACPI 1.1 Compliance Wake Up Events - AMBIOS 2.3.1 Support - CPU, DRAM, GTL, NB, SB, SB 1.1, VTT Voltage Multi-adjustment - Supports Smart BIOS
Support CD	- Drivers, Utilities, AntiVirus Software (Trial Version), ASRock Software Suite (CyberLink DVD Suite and Creative Sound Blaster X-Fi MB) (OEM and Trial Version)
Unique Feature	- ASRock OC Tuner (see **CAUTION 10**) - Intelligent Energy Saver (see **CAUTION 11**) - Instant Boot - ASRock Instant Flash (see **CAUTION 12**) - ASRock OC DNA (see **CAUTION 13**) - Hybrid Booster: - CPU Frequency Stepless Control (see **CAUTION 14**) - ASRock U-COP (see **CAUTION 15**) - 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, CPU Vcore
OS	- Microsoft® Windows® 7 / 7 64-bit / Vista™ / Vista™ 64-bit / XP / XP 64-bit compliant
Certifications	- FCC, CE, WHQL

English

	- EuP Ready (EuP ready power supply is required) (see **CAUTION 16**)

* 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.

CAUTION!

1. This motherboard supports native FSB1600/1333/1066/800 MHz. For normal operation, you do no need to adjust the jumper settings. For special overclocking mode, please refer to page 18 for proper jumper settings.
2. About the setting of "Hyper Threading Technology", please check page 43 of "User Manual" in the support CD.
3. This motherboard supports Untied Overclocking Technology. Please read "Untied Overclocking Technology" on page 24 for details.
4. 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 14 for proper installation.
5. Please check the table below for the CPU FSB frequency and its corresponding memory support frequency.

CPU FSB Frequency	Memory Support Frequency
1600	DDR3 800, DDR3 1066, DDR3 1333, DDR3 1600 * DDR2 800, DDR2 1066, DDR2 1200 *
1333	DDR3 800, DDR3 1066, DDR3 1333 DDR2 667, DDR2 800, DDR2 1066, DDR2 1200 *
1066	DDR3 800, DDR3 1066 DDR2 667, DDR2 800, DDR2 1066
800	DDR3 800 DDR2 667, DDR2 800

   * DDR3 1600 / DDR2 1200 memory modules will operate in overclocking mode. In this situation, you need to adjust the BIOS option "DRAM Frequency" to [800MHz DDR3_1600] or [600MHz DDR2_1200] and adjust the jumpers. Please refer to page 17 for proper jumper settings.
6. 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.
7. 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.

English

8. Before installing SATAII hard disk to SATAII connector, please read the "SATAII Hard Disk Setup Guide" on page 28 of "User Manual" in the support CD to adjust your SATAII hard disk drive to SATAII mode. You can also connect SATA hard disk to SATAII connector directly.
9. Power Management for USB 2.0 works fine under Microsoft® Windows® 7 64-bit / 7 / Vista™ 64-bit / Vista™ / XP 64-bit / XP SP1 or SP2.
10. 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
11. Featuring an advanced proprietary hardware and software design, Intelligent Energy Saver is a revolutionary technology that delivers unparalleled power savings. In other words, it is able to provide exceptional power saving and improve power efficiency without sacrificing computing performance. Please visit our website for the operation procedures of Intelligent Energy Saver.
ASRock website: http://www.asrock.com
12. 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.
13. 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.
14. 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.
15. 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.

English

16. 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.

English

2. Installation

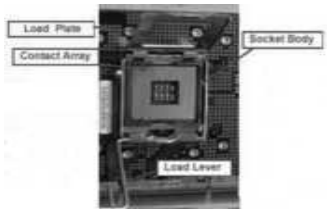
Pre-installation Precautions

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

1. Unplug the power cord from the wall socket before touching any component. Failure to do so may cause severe damage to the motherboard, peripherals, and/or components.
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 antstatic 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.

2.1 CPU Installation

For the installation of Intel 775-LAND CPU, please follow the steps below.



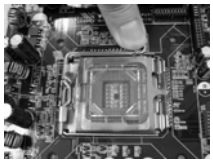
775-Pin Socket Overview

Before you insert the 775-LAND CPU into the socket, please check if the CPU surface is unclean or if there is any bent pin on the socket. Do not force to insert the CPU into the socket if above situation is found. Otherwise, the CPU will be seriously damaged.

English

Step 1. Open the socket:

Step 1-1. Disengaging the lever by depressing down and out on the hook to clear retention tab.



Step 1-2. Rotate the load lever to fully open position at approximately 135 degrees.

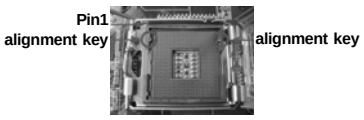
Step 1-3. Rotate the load plate to fully open position at approximately 100 degrees.

Step 2. Insert the 775-LAND CPU:

Step 2-1. Hold the CPU by the edges where are marked with black lines.

Step 2-2. Orient the CPU with IHS (Integrated Heat Sink) up. Locate Pin1 and the two orientation key notches.

775-LAND CPU

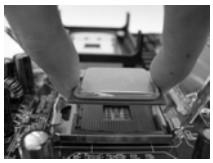


775-Pin Socket

For proper inserting, please ensure to match the two orientation key notches of the CPU with the two alignment keys of the socket.

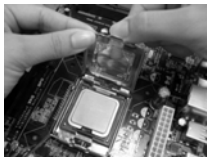
Step 2-3. Carefully place the CPU into the socket by using a purely vertical motion.

Step 2-4. Verify that the CPU is within the socket and properly mated to the orient keys.



Step 3. Remove PnP Cap (Pick and Place Cap):

Use your left hand index finger and thumb to support the load plate edge, engage PnP cap with right hand thumb and peel the cap from the socket while pressing on center of PnP cap to assist in removal.



English

1. It is recommended to use the cap tab to handle and avoid kicking off the PnP cap.
2. This cap must be placed if returning the motherboard for after service.

Step 4. Close the socket:

Step 4-1. Rotate the load plate onto the IHS.

Step 4-2. While pressing down lightly on load plate, engage the load lever.

Step 4-3. Secure load lever with load plate tab under retention tab of load lever.

2.2 Installation of CPU Fan and Heatsink

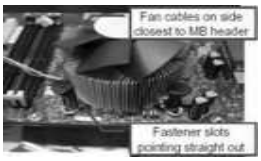
For proper installation, please kindly refer to the instruction manuals of your CPU fan and heatsink.

Below is an example to illustrate the installation of the heatsink for 775-LAND CPU.

Step 1. Apply thermal interface material onto center of IHS on the socket surface.

Step 2. Place the heatsink onto the socket. Ensure fan cables are oriented on side closest to the CPU fan connector on the motherboard (CPU_FAN1, see page 2, No. 4).

Step 3. Align fasteners with the motherboard throughholes.



Step 4. Rotate the fastener clockwise, then press down on fastener caps with thumb to install and lock. Repeat with remaining fasteners.

If you press down the fasteners without rotating them clockwise, the heatsink cannot be secured on the motherboard.

Step 5. Connect fan header with the CPU fan connector on the motherboard.

Step 6. Secure excess cable with tie-wrap to ensure cable does not interfere with fan operation or contact other components.

English

2.3 Installation of Memory Modules (DIMM)

This motherboard provides two 240-pin DDR2 (Double Data Rate 2) DIMM slots and two 240-pin DDR3 (Double Data Rate 3) 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) DDR2/DDR3 DIMM pair in the slots of the same color. In other words, you have to install **identical** DDR2 DIMM pair in **Dual Channel** (DDRII_1 and DDRII_2; Yellow slots; see p.2 No.5), or **identical** DDR3 DIMM pair in **Dual Channel** (DDR3_A1 and DDR3_B1; Blue slots; see p.2 No.6), so that Dual Channel Memory Technology can be activated. You may refer to the Dual Channel Memory Configuration Table below.

Dual Channel DDR2 Memory Configurations
(DS: Double Side, SS: Single Side)

	DDRII_1 (Yellow Slot)	DDRII_2 (Yellow Slot)
2 memory modules	SS	SS
2 memory modules	DS	DS

Dual Channel DDR3 Memory Configurations
(DS: Double Side, SS: Single Side)

	DDR3_A1 (Blue Slot)	DDR3_B1 (Blue Slot)
2 memory modules	SS	SS
2 memory modules	DS	DS

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 in the set of blue slots (DDR3_A1 and DDR3_B1), or in the set of yellow slots (DDRII_1 and DDRII_2).
2. If only one memory module is installed in the DIMM slot on this motherboard, it is unable to activate the Dual Channel Memory Technology.
3. It is not allowed to install a DDR3 memory module into DDR2 slot or install a DDR2 memory module into DDR3 slot; otherwise, this motherboard and DIMM may be damaged.
4. DDR2 and DDR3 memory modules cannot be installed on this motherboard at the same time.

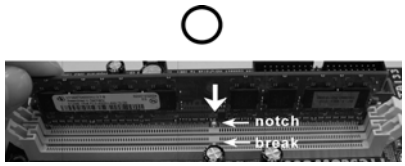
English

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) is used for PCI Express cards with x1 lane width cards, such as Gigabit LAN card, SATA2 card, etc.

PCIE2 (PCIE x16 slot; Green) is used for PCI Express 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 system unit cover (if your motherboard is already installed in a chassis).

Step 3. Remove the bracket facing the slot that you intend to use. Keep the screws for later use.

Step 4. Align the card connector with the slot and press firmly until the card is completely seated on the slot.

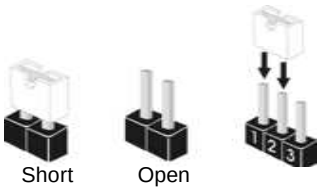
Step 5. Fasten the card to the chassis with screws.

Step 6. Replace the system cover.

English

2.5 Jumpers Setup

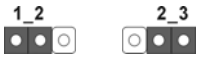
The illustration shows how jumpers are setup. When the jumper cap is placed on pins, the jumper is “Short”. If no jumper cap is placed on pins, the jumper is “Open”. The illustration shows a 3-pin jumper whose pin1 and pin2 are “Short” when jumper cap is placed on these 2 pins.



Jumper	Setting	Description
PS2_USB_PWR1 (see p.2 No. 2)	1_2 +5V / 2_3 +5VSB	Short pin2, pin3 to enable +5VSB (standby) for PS/2 or USB wake up events.

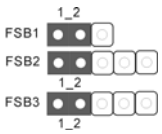
Note: To select +5VSB, it requires 2 Amp and higher standby current provided by power supply.

Clear CMOS Jumper
(CLRCMOS1)
(see p.2 No. 32)



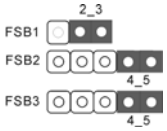
Note: CLRCMOS1 allows you to clear the data in CMOS. The data in CMOS includes system setup information such as system password, date, time, and system setup parameters. To clear and reset the system parameters to default setup, please turn off the computer and unplug the power cord from the power supply. 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.

FSB1 / FSB2 / FSB3 Jumper
(FSB1, 3-pin jumper, see p.2 No. 33)
(FSB2, 5-pin jumper, see p.2 No. 33)
(FSB3, 5-pin jumper, see p.2 No. 33)



Default

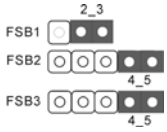
If you want to overclock the memory module you adopt to DDR2 1200 on this motherboard, you need to adjust the jumpers. Please short pin2, pin3 for FSB1 jumper, pin4, pin5 for FSB2 jumper, and pin4, pin5 for FSB3 jumper. Otherwise, the memory module may not work properly on this motherboard. Please refer to below jumper settings.



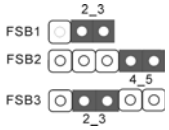
English

When you mount a FSB800 or FSB1066 CPU, and try to overclock to FSB1333 orFSB1600 (by BIOS setting) you may face the problem, that DRAM frequency will beoverclocked very high. Please use jumper to force NB to be strapped at higherfrequency, so the DRAM can work at lower frequency.

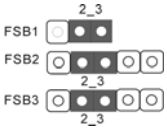
If you want to overclock the CPU you adopt to FSB1066 on this motherboard, you need to adjust the jumpers. Please short pin2, pin3 for FSB1 jumper, pin4, pin5 for FSB2 jumper, and pin4, pin5 for FSB3 jumper. Otherwise, the CPU may not work properly on this motherboard. Please refer to below jumper settings.



If you want to overclock the CPU you adopt to FSB1333 on this motherboard, you need to adjust the jumpers. Please short pin2, pin3 for FSB1 jumper, pin4, pin5 for FSB2 jumper, and pin2, pin3 for FSB3 jumper. Otherwise, the CPU may not work properly on this motherboard. Please refer to below jumper settings.



If you want to overclock the CPU you adopt to FSB1600 on this motherboard, you need to adjust the jumpers. Please short pin2, pin3 for FSB1 jumper, pin2, pin3 for FSB2 jumper, and pin2, pin3 for FSB3 jumper. Otherwise, the CPU may not work properly on this motherboard. Please refer to below jumper settings.



English

2.6 Onboard Headers and Connectors

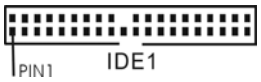
Onboard headers and connectors are NOT jumpers. Do NOT place jumper caps over these headers and connectors. Placing jumper caps over the headers and connectors will cause permanent damage of the motherboard!

FDD connector
(33-pin FLOPPY1)
(see p.2 No. 24)

the red-striped side to Pin1

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)



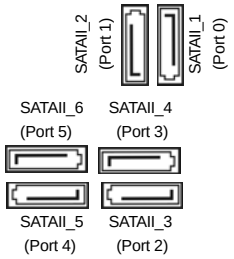
connect the blue end to the motherboard

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. 11)
(SATAII_2 (Port 1): see p.2, No. 10)
(SATAII_3 (Port 2): see p.2, No. 17)
(SATAII_4 (Port 3): see p.2, No. 16)
(SATAII_5 (Port 4): see p.2, No. 18)
(SATAII_6 (Port 5): see p.2, No. 19)



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

Serial ATA (SATA) Data Cable
(Optional)

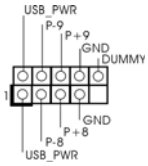
Either end of the SATA data cable can be connected to the SATA / SATAII hard disk or the SATAII connector on this motherboard.

English

USB 2.0 Headers

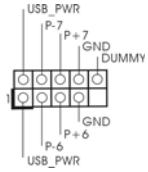
(9-pin USB8_9)

(see p.2 No. 22)



(9-pin USB6_7)

(see p.2 No. 20)

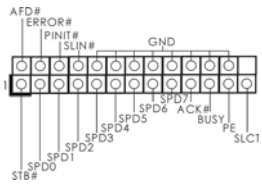


Besides six default USB 2.0 ports on the I/O panel, there are two USB 2.0 headers on this motherboard. Each USB 2.0 header can support two USB 2.0 ports.

Print Port Header

(25-pin LPT1)

(see p.2 No. 31)

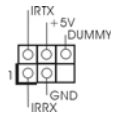


This is an interface for print port cable that allows convenient connection of printer devices.

Infrared Module Header

(5-pin IR1)

(see p.2 No. 29)

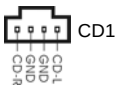


This header supports an optional wireless transmitting and receiving infrared module.

Internal Audio Connectors

(4-pin CD1)

(see p.2 No. 25)

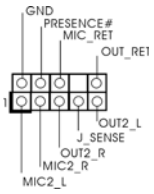


This connector allows you to receive stereo audio input from sound sources such as a CD-ROM, DVD-ROM, TV tuner card, or MPEG card.

Front Panel Audio Header

(9-pin HD_AUDIO1)

(see p.2 No. 26)

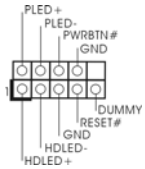


This is an interface for front panel audio cable that allows convenient connection and control of audio devices.

English

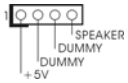
1. High Definition Audio supports Jack Sensing, but the panel wire on the chassis must support HDA to function correctly. Please follow the instruction in our manual and chassis manual to install your system.
2. If you use AC'97 audio panel, please install it to the front panel audio header as below:
   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].

System Panel Header
(9-pin PANEL1)
(see p.2 No. 15)



This header accommodates several system front panel functions.

Chassis Speaker Header
(4-pin SPEAKER 1)
(see p.2 No. 14)



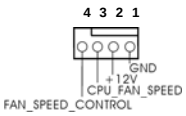
Please connect the chassis speaker to this header.

Chassis and Power Fan Connectors
(3-pin CHA_FAN1)
(see p.2 No. 13)

(3-pin PWR_FAN1)
(see p.2 No. 7)

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

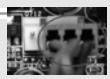
CPU Fan Connector
(4-pin CPU_FAN1)
(see p.2, No. 4)



Please connect a 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



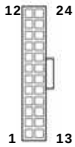
3-Pin Fan Installation

English

ATX Power Connector

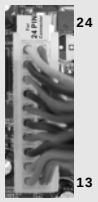
(24-pin ATXPWR1)

(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)

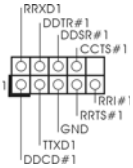
(see p.2 No. 1)

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

Serial port Header

(9-pin COM1)

(see p.2 No. 23)



This COM1 header supports a serial port module.

HDMI_SPDIF Header

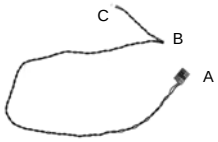
(3-pin HDMI_SPDIF1)

(see p.2 No. 35)

HDMI_SPDIF header, providing SPDIF audio output to HDMI VGA card, allows the system to connect HDMI Digital TV/ projector/LCD devices. Please connect the HDMI_SPDIF connector of HDMI VGA card to this header.

HDMI_SPDIF Cable

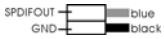
(Optional)



Please connect the black end (A) of HDMI_SPDIF cable to the HDMI_SPDIF header on the motherboard. Then connect the white end (B or C) of HDMI_SPDIF cable to the HDMI_SPDIF connector of HDMI VGA card.

A. black end

B. white end (2-pin)



C. white end (3-pin)

English

2.7 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.

2.8 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.

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

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

Using SATA / SATAII HDDs without NCQ function

STEP 1: Set up BIOS.

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

B. Set “SATAII Configuration” to [Enhanced], and then in the option “Configure SATAII as”, please set the option to [IDE].

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

2.8.2 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 OS on your SATA / SATAII HDDs without RAID functions, please follow below steps.

Using SATA / SATAII HDDs without NCQ function

STEP 1: Set up BIOS.

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

B. Set “SATAII Configuration” to [Enhanced], and then in the option “Configure SATAII as”, please set the option to [IDE].

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

English

Using SATA / SATAII HDDs with NCQ function

STEP 1: Set Up BIOS.

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

B. Set "SATAII Configuration" to [Enhanced], and then in the option "Configure SATAII as", please set the option to [AHCI].

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

Insert the Windows® 7 / 7 64-bit / Vista™ / Vista™ 64-bit optical disk into the optical drive to boot your system, and follow the instruction to install Windows® 7 / 7 64-bit / Vista™ / Vista™ 64-bit OS on your system. When you see "Where do you want to install Windows?" page, please insert the ASRock Support CD into your optical drive, and click the "Load Driver" button on the left on the bottom to load the Intel® AHCI drivers. Intel® AHCI drivers are in the following path in our Support CD:

.. \ I386 (For Windows® 7 / Vista™ OS)

.. \ AMD64 (For Windows® 7 64-bit / Vista™ 64-bit OS)

After that, please insert Windows® 7 / 7 64-bit / Vista™ / Vista™ 64-bit optical disk into the optical drive again to continue the installation.

2.9 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 [Manual]. 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 8 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 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 ***P43C-ME*** 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 ***P43C-ME*** Motherboard
(Micro ATX-Formfaktor: 24.4 cm x 21.1 cm; 9.6 Zoll x 8.3 Zoll)
ASRock ***P43C-ME*** Schnellinstallationsanleitung
ASRock ***P43C-ME*** Support-CD
Ein 80-adriges Ultra-ATA 66/100/133 IDE-Flachbandkabel
Zwei Serial ATA (SATA) -Datenkabel (optional)
Ein I/O Shield

1.2 Spezifikationen

Plattform	- Micro ATX-Formfaktor: 24.4 cm x 21.1 cm; 9.6 Zoll x 8.3 Zoll
CPU	- LGA 775 für Intel® Core™ 2 Extreme / Core™ 2 Quad / Core™ 2 Duo / Pentium® Dual Core / Celeron® Dual Core / Celeron® unterstützt Penryn Quad Core Yorkfield und Dual Core Wolfdale Prozessoren - FSB 1600/1333/1066/800 MHz (siehe **VORSICHT 1**) - Unterstützt Hyper-Threading-Technologie (siehe **VORSICHT 2**) - Unterstützt Untied-Übertaktungstechnologie (siehe **VORSICHT 3**) - Unterstützt EM64T-CPU
Chipsatz	- Northbridge: Intel® P43 - Southbridge: Intel® ICH10
Speicher	- Unterstützung von Dual-Kanal-DDR3/DDR2-Speichertechnologie (siehe **VORSICHT 4**) - 2 x Steckplätze für DDR3 - Unterstützt DDR3 1600(OC)/1333/1066/800 non-ECC, ungepufferter Speicher (siehe **VORSICHT 5**) - Max. Kapazität des Systemspeichers: 8GB (siehe **VORSICHT 6**) - 2 x Steckplätze für DDR2 - Unterstützt DDR2 1200(OC)/1066/800/667 non-ECC, ungepufferter Speicher (siehe **VORSICHT 5**) - Max. Kapazität des Systemspeichers: 8GB (siehe **VORSICHT 6**)
Erweiterungs-steckplätze	- 1 x PCI Express 2.0 x16-Steckplätze (blau für x16-Modus) - 1 x PCI Express x1-Steckplätze - 2 x PCI -Steckplätze
Audio	- 7.1 CH HD Audio (VIA® VT1718S Audio Codec)
LAN	- PCIE x1 Gigabit LAN 10/100/1000 Mb/s - Realtek RTL8111DL - Unterstützt Wake-On-LAN
E/A-Anschlüsse an der Rückseite	I/O Panel - 1 x PS/2-Mausanschluss - 1 x PS/2-Tastaturanschluss - 1 x Koaxial-SPDIF-Ausgang - 1 x optischer SPDIF-Ausgang - 6 x Standard-USB 2.0-Anschlüsse - 1 x RJ-45 LAN Port mit LED (ACT/LINK LED und SPEED LED)

	- HD Audiobuchse: Lautsprecher seitlich / Lautsprecher hinten / Mitte/Bass / Audioeingang/ Lautsprecher vorne / Mikrofon (siehe **VORSICHT 7**)
Anschlüsse	- 6 x Serial ATAII 3,0 GB/s-Anschlüsse, unterstützen NCQ, AHCI und “Hot Plug” Funktionen (siehe **VORSICHT 8**) - 1 x ATA133 IDE-Anschlüsse (Unterstützt bis 2 IDE-Geräte) - 1 x FDD-Anschlüsse - 1 x Infrarot-Modul-Header - 1 x Druckerport-Anschlussleiste - 1 x COM-Anschluss-Header - 1 x HDMI_SPDIF-Anschluss - 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 - 2 x USB 2.0-Anschlüsse (Unterstützung 4 zusätzlicher USB 2.0-Anschlüsse) (siehe **VORSICHT 9**)
BIOS	- 8Mb AMI BIOS - AMI legal BIOS mit Unterstützung für “Plug and Play” - ACPI 1.1-Weckfunktionen - SMBIOS 2.3.1 - Zentraleinheit, DRAM, GTL, NB, SB, SB 1.1, VTT Stromspannung Multianpassung - Unterstützt Smart BIOS
Support-CD	- Treiber, Dienstprogramme, Antivirussoftware (Probeversion), ASRock-Software-Suite (CyberLink DVD Suite und Creative Sound Blaster X-Fi MB) (OEM- und Testversion)
Einzigartige Eigenschaft	- ASRock OC Tuner (siehe **VORSICHT 10**) - Intelligent Energy Saver (Intelligente Energiesparfunktion) (siehe **VORSICHT 11**) - Sofortstart - ASRock Instant Flash (siehe **VORSICHT 12**) - ASRock OC DNA (siehe **VORSICHT 13**) - Hybrid Booster: - Schrittloser CPU-Frequenz-Kontrolle (siehe **VORSICHT 14**) - ASRock U-COP (siehe **VORSICHT 15**) - Boot Failure Guard (B.F.G. – Systemstartfehlerschutz)
Hardware Monitor	- Überwachung der CPU-Temperatur - 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 64-Bit
Zertifizierungen	- FCC, CE, WHQL - Gemäß Ökodesign-Richtlinie (EuP) (Stromversorgung gemäß Ökodesign-Richtlinie (EuP) erforderlich) (siehe **VORSICHT 16**)

* 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 systemeigenes FSB1600/1333/1066/800 MHz. Für den normalen Betrieb ist eine Einstellung der Jumper nicht erforderlich. Für den besonderen Übertaktungsmodus beachten Sie bitte die richtigen Jumper-Einstellungen auf Seite 33 und 34.
2. Die Einstellung der “Hyper-Threading Technology”, finden Sie auf Seite 43 des auf der Support-CD enthaltenen Benutzerhandbuches beschrieben.
3. Dieses Motherboard unterstützt die Untied-Übertaktungstechnologie. Unter “Entkoppelte Übertaktungstechnologie” auf Seite 24 finden Sie detaillierte Informationen.
4. Dieses Motherboard unterstützt Dual-Kanal-Speichertechnologie. Vor Implementierung der Dual-Kanal-Speichertechnologie müssen Sie die Installationsanleitung für die Speichermodule auf Seite 14 zwecks richtiger Installation gelesen haben.
5. Die unterstützten Arbeitsspeicherfrequenzen und die entsprechende CPU FSB-Frequenz entnehmen Sie bitte der nachstehenden Tabelle.

CPU FSB-Frequenz	Unterstützte Arbeitsspeicherfrequenz
1600	DDR3 800, DDR3 1066, DDR3 1333, DDR3 1600 * DDR2 800, DDR2 1066, DDR2 1200 *
1333	DDR3 800, DDR3 1066, DDR3 1333 DDR2 667, DDR2 800, DDR2 1066, DDR2 1200 *
1066	DDR3 800, DDR3 1066 DDR2 667, DDR2 800, DDR2 1066
800	DDR3 800 DDR2 667, DDR2 800

* DDR3 1600 / DDR2 1200-Speichermodule laufen im Übertaktungsmodus. In diesem Fall müssen Sie die BIOS-Option "DRAM Frequency" (DRAM-Frequenz) auf [800MHz DDR3_1600] oder [600MHz DDR2_1200] einstellen und die Jumper umsetzen. Auf Seite 33 sind die geeigneten Jumper-Einstellungen aufgeführt.

6. 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.
7. 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.
8. Vor Installation der SATAII-Festplatte an den SATAII-Anschluss lesen Sie bitte "Setup-Anleitung für SATAII-Festplatte" auf Seite 28 der "Bedienungsanleitung" auf der Support-CD, um Ihre SATAII-Festplatte dem SATAII-Modus anzugleichen. Sie können die SATA-Festplatte auch direkt mit dem SATAII-Anschluss verbinden.
9. Das Power Management für USB 2.0 arbeitet unter Microsoft® Windows® 7 64-Bit / 7 / Vista™ 64-Bit / Vista™ / XP 64-Bit / XP SP1 oder SP2 einwandfrei.
10. 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
11. Mit einem fortschrittlichen, eigenständigen Hard- und Softwaredesign nutzt der Intelligent Energy Saver eine revolutionäre Technologie, die bisher unerreichte Energieeinsparungen ermöglicht. Mit anderen Worten: Sie verbrauchen besonders wenig Energie und erreichen einen hohen Wirkungsgrad, ohne dass dies zu Lasten der Rechenleistung geht. Auf unseren Internetseiten finden Sie einige Erläuterungen zur Funktionsweise des Intelligent Energy Saver.
ASRock-Website: http://www.asrock.com

12. 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.
13. 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.
14. Obwohl dieses Motherboard stufenlose Steuerung bietet, wird Over-clocking nicht empfohlen. Frequenzen, die über den für den jeweiligen Prozessor vorgesehenen liegen, können das System instabil werden lassen oder die CPU beschädigen.
15. 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.
16. 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	Beschreibung
PS2_USB_PWR1 (siehe S.2 - No. 2)		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 - Nr. 32)

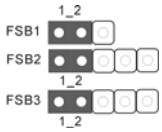
Default-Einstellung CMOS löschen

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.

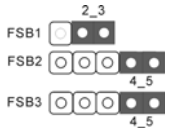
FSB1 / FSB2 / FSB3-Steckbrücke

(FSB1, 3-polige Steckbrücke; siehe Seite 2, Nr. 33)
(FSB2, 5-polige Steckbrücke; siehe Seite 2, Nr. 33)
(FSB3, 5-polige Steckbrücke; siehe Seite 2, Nr. 33)



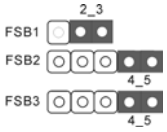
Default-Einstellung

Möchten Sie das Speichermodul übertakten, wofür Sie auf diesem Motherboard DDR2 1200 verwenden, müssen Sie die Jumper umsetzen. Verbinden (schließen) Sie Pin 2, Pin 3 des FSB1-Jumpers, Pin 4, Pin 5 des FSB2-Jumpers und Pin 4, Pin 5 des FSB3-Jumpers. Andernfalls funktioniert das Speichermodul nicht richtig auf diesem Motherboard. Beziehen Sie sie auf die nachstehenden Jumper-Einstellungen.



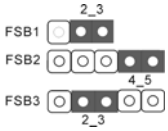
Wenn Sie eine FSB800- oder FSB1066-CPU installieren und versuchen, (mithilfe einer BIOS-Einstellung) auf FSB1333 oder FSB1600 zu übertakten, könnte das Problem auftreten, dass die DRAM-Frequenz sehr hoch übertaktet wird. Zwingen Sie die NB (Northbridge) mittels Jumper zu einer höheren Frequenz, damit das DRAM mit einer niedrigen Frequenz arbeiten kann.

Möchten Sie die CPU übertakten, die Sie auf diesem Motherboard auf FSB1066 aufgerüstet haben, müssen Sie Jumper einstellen. Schließen Sie den Pin2 und den Pin3 des FSB1-Jumpers kurz, Schließen Sie den Pin4 und den Pin5 des FSB2-Jumpers kurz, und Schließen Sie den Pin4 und den Pin5 des FSB3-Jumpers kurz. Andernfalls funktioniert die CPU nicht richtig auf diesem Motherboard. Siehe die nachstehenden Jumper-Einstellungen.

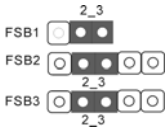


Deutsch

Möchten Sie die CPU übertakten, die Sie auf diesem Motherboard auf FSB1333 aufgerüstet haben, müssen Sie Jumper einstellen. Schließen Sie den Pin2 und den Pin3 des FSB1-Jumpers kurz, Schließen Sie den Pin4 und den Pin5 des FSB2-Jumpers kurz, und Schließen Sie den Pin2 und den Pin3 des FSB3-Jumpers kurz. Andernfalls funktioniert die CPU nicht richtig auf diesem Motherboard. Siehe die nachstehenden Jumper-Einstellungen.



Möchten Sie die CPU übertakten, die Sie auf diesem Motherboard auf FSB1600 aufgerüstet haben, müssen Sie Jumper einstellen. Schließen Sie den Pin2 und den Pin3 des FSB1-Jumpers kurz, Schließen Sie den Pin2 und den Pin3 des FSB2-Jumpers kurz, und Schließen Sie den Pin2 und den Pin3 des FSB3-Jumpers kurz. Andernfalls funktioniert die CPU nicht richtig auf diesem Motherboard. Siehe die nachstehenden Jumper-Einstellungen.



1.4 Integrierte Header und Anschlüsse

Integrierte Header und Anschlüsse sind KEINE Jumper. Setzen Sie KEINE Jumperkappen auf diese Header und Anschlüsse. Wenn Sie Jumperkappen auf Header und Anschlüsse setzen, wird das Motherboard unreparierbar beschädigt!

Anschluss für das Floppy-Laufwerk
(33-Pin FLOPPY1)
(siehe S.2 - No. 24)

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)

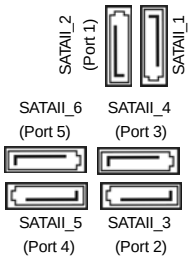
Blauer Anschluss zum Motherboard

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. 11)
(SATAII_2 (Port 1): siehe S.2 - No. 10)
(SATAII_3 (Port 2): siehe S.2 - No. 17)
(SATAII_4 (Port 3): siehe S.2 - No. 16)
(SATAII_5 (Port 4): siehe S.2 - No. 18)
(SATAII_6 (Port 5): siehe S.2 - No. 19)



Diese sechs Serial ATAII-(SATAII-)Verbínder unterstützten SATA-Datenkabel für interne Massenspeichergeräte. Die aktuelle SATAII-Schnittstelle ermöglicht eine Datenübertragungsrate bis 3,0 Gb/s.

Serial ATA- (SATA-) Datenkabel
(Option)

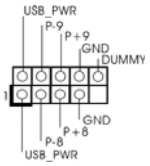
SJedes Ende des SATA Datenkabels kann an die SATA / SATAII Festplatte oder das SATAII Verbindungsstück auf dieser Hauptplatine angeschlossen werden.

Deutsch

USB 2.0-Header

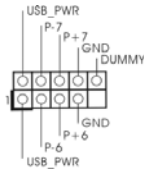
(9-pol. USB8_9)

(siehe S.2 - No. 22)



(9-pol. USB6_7)

(siehe S.2 - No. 20)

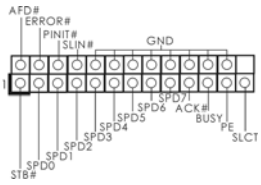


Zusätzlich zu den sechs üblichen USB 2.0-Ports an den I/O-Anschlüssen befinden sich zwei USB 2.0-Anschlussleisten am Motherboard. Pro USB 2.0-Anschlussleiste werden zwei USB 2.0-Ports unterstützt.

Druckerport-Anschlussleiste

(25-pol. LPT1)

(siehe S.2 - No. 31)

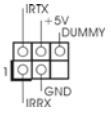


Dies ist eine Schnittstelle zum Anschluss eines Druckerport-Kabels, mit dem Sie passende Drucker auf einfache Weise anschließen können.

Infrarot-Modul-Header

(5-pin IR1)

(siehe S.2 - No. 29)

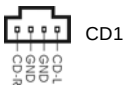


Dieser Header unterstützt ein optionales, drahtloses Sende- und Empfangs-Infrarotmodul.

Interne Audio-Anschlüsse

(4-Pin CD1)

(CD1: siehe S.2 - No. 25)

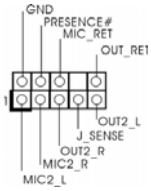


Diese ermöglichen Ihnen Stereo-Signalquellen, wie z. B. CD-ROM, DVD-ROM, TV-Tuner oder MPEG-Karten mit Ihrem System zu verbinden.

Anschluss für Audio auf der Gehäusevorderseite

(9-Pin HD_AUDIO1)

(siehe S.2 - No. 26)

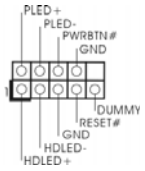


Dieses Interface zu einem Audio-Panel auf der Vorderseite Ihres Gehäuses, ermöglicht Ihnen eine bequeme Anschlussmöglichkeit und Kontrolle über Audio-Geräte.

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.

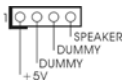
2. Wenn Sie die AC'97-Audioleiste verwenden, installieren Sie diese wie nachstehend beschrieben an der Front-Audioanschlussleiste:
   A. Schließen Sie Mic_IN (MIC) an MIC2_L an.
   B. Schließen Sie Audio_R (RIN) an OUT2_R und Audio_L (LIN) an OUT2_L an.
   C. Schließen Sie Ground (GND) an Ground (GND) 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].

System Panel-Header
(9-pin PANEL1)
(siehe S.2 - No. 15)



Dieser Header unterstützt mehrere Funktion der Systemvorderseite.

Gehäuselautsprecher-Header
(4-pin SPEAKER1)
(siehe S.2 - No. 14)



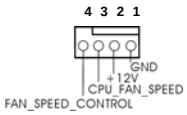
Schließen Sie den Gehäuselautsprecher an diesen Header an.

Gehäuse- und Stromlüfteranschlüsse
(3-pin CHA_FAN1)
(siehe S.2, No. 13)

(3-pin PWR_FAN1)
(siehe S.2, No. 7)

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. 4)



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

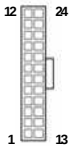
Deutsch

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-Lüfteranschluss dieses Motherboards anschließen möchten, verbinden Sie ihn bitte mit den Pins 1 – 3.

Pins 1–3 anschließen

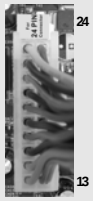
Lüfter mit dreipoligem Anschluss installieren

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.

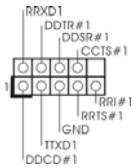


Installation eines 20-pol. ATX-Netzteils

ATX 12V Anschluss
(4-pin ATX12V1)
(siehe S.2 - No. 1)

Bitte schließen Sie an diesen Anschluss die ATX 12V Stromversorgung an.

COM-Anschluss-Header
(9-pin COM1)
(siehe S.2 - No. 23)



Dieser COM-Anschluss-Header wird verwendet, um ein COM-Anschlussmodul zu unterstützen.

Deutsch

HDMI_SPDIF-Anschluss

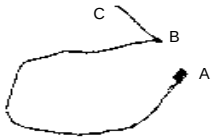
(HDMI_SPDIF1, dreipolig)

(siehe S.2 - No. 35)

Der HDMI_SPDIF-Anschluss stellt einen SPDIF-Audioausgang für eine HDMI-VGA-Karte zur Verfügung und ermöglicht den Anschluss von HDMI-Digitalgeräten wie Fernsehgeräten, Projektoren, LCD-Geräten an das System. Bitte verbinden Sie den HDMI_SPDIF-Anschluss der HDMI-VGA-Karte mit diesem Anschluss.

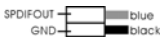
HDMI_SPDIF-Kabel

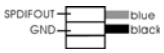
(Option)



Bitte verbinden Sie das schwarze Ende (A) des HDMI_SPDIF-Kabels mit dem HDMI_SPDIF-Anschluss am Motherboard. Schließen Sie dann das weiße Ende (B oder C) des HDMI_SPDIF-Kabels an den HDMI_SPDIF-Anschluss der HDMI-VGA-Karte an.

A. Schwarzes Ende B. Weißes Ende (zweipolig) C. Weißes Ende (dreipolig)





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 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 ***P43C-ME***, 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 ***P43C-ME***
(Facteur de forme Micro ATX: 9.6 pouces x 8.3 pouces, 24.4 cm x 21.1 cm)
Guide d'installation rapide ASRock ***P43C-ME***
CD de soutien ASRock ***P43C-ME***
Un câble ruban IDE Ultra ATA 66/100/133 80 conducteurs
Deux câbles de données de série ATA (SATA) (en option)
Un I/O Panel Shield

1.2 Spécifications

Format	- Facteur de forme Micro ATX: 9.6 pouces x 8.3 pouces, 24.4 cm x 21.1 cm
CPU	- LGA 775 pour Intel® Core™ 2 Extreme / Core™ 2 Quad / Core™ 2 Duo / Pentium® Dual Core / Celeron® Dual Core / Celeron® acceptant les processeurs Penryn Quad Core Yorkfield et Dual Core Wolfdale - FSB 1600/1333/1066/800 MHz (voir **ATTENTION 1**) - Prise en charge de la technologie Hyper-Threading (voir **ATTENTION 2**) - Prend en charge la technologie Untied Overclocking (voir **ATTENTION 3**) - Prise en charge de la technologie EM64T par le CPU
Chipsets	- Northbridge: Intel® P43 - Southbridge: Intel® ICH10
Mémoire	- Compatible avec la Technologie de Mémoire à Canal Double (voir **ATTENTION 4**) - 2 x slots DIMM DDR3 - Supporter DDR3 1600(OC)/1333/1066/800 non-ECC, sans amortissement mémoire (voir **ATTENTION 5**) - Capacité maxi de mémoire système: 8GB (voir **ATTENTION 6**) - 2 x slots DIMM DDR2 - Supporter DDR2 1200(OC)/1066/800/667 non-ECC, sans amortissement mémoire (voir **ATTENTION 5**) - Capacité maxi de mémoire système: 8GB (voir **ATTENTION 6**)
Slot d'extension	- 1 x slot PCI Express 2.0 x16 (bleu @ mode x16) - 1 x slot PCI Express x1 - 2 x slots PCI
Audio	- 7.1 Son haute définition de CH (codec audio VIA® VT1718S)
LAN	- PCIE x1 Gigabit LAN 10/100/1000 Mb/s - Realtek RTL8111DL - Support du Wake-On-LAN
Panneau arrière	I/O Panel - 1 x port souris PS/2 - 1 x port clavier PS/2 - 1 x Port de sortie coaxial SPDIF - 1 x Port de sortie optique SPDIF - 6 x ports USB 2.0 par défaut

	- 1 x port LAN RJ-45 avec LED (ACT/LED CLIGNOTANTE et LED VITESSE) - Prise HD Audio: Haut-parleur latéral / Haut-parleur arrière / Central /Basses / Entrée Ligne / Haut-parleur frontal / Microphone (voir **ATTENTION 7**)
Connecteurs	- 6 x connecteurs SATAII, prennent en charge un taux de transfert de données pouvant aller jusqu'à 3.0Go/s, supporte NCQ, AHCI et "Hot-Plug" (Connexion à chaud) (voir **ATTENTION 8**) - 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 embase de port d'impression - 1 x En-tête de port COM - 1 x Connecteur HDMI_SPDIF - 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 - 2 x En-tête USB 2.0 (prendre en charge 4 ports USB 2.0 supplémentaires) (voir **ATTENTION 9**)
BIOS	- 8Mb BIOS AMI - BIOS AMI - Support du "Plug and Play" - Compatible pour événements de réveil ACPI 1.1 - Support SMBIOS 2.3.1 - CPU, DRAM, GTL, NB, SB, SB 1.1, VTT Tension Multi-ajustement - Prise en charge du Smart BIOS
CD d'assistance	- Pilotes, utilitaires, logiciel anti-virus (Version d'essai), Suite logicielle ASRock (CyberLink DVD Suite et Creative Sound Blaster X-Fi MB) (Version OEM et d'essai)
Caractéristique unique	- Tuner ASRock OC (voir **ATTENTION 10**) - Économiseur d'énergie intelligent (voir **ATTENTION 11**) - l'Instant Boot - ASRock Instant Flash (voir **ATTENTION 12**) - ASRock OC DNA (voir **ATTENTION 13**) - L'accélérateur hybride: - Contrôle direct de la fréquence CPU (voir **ATTENTION 14**) - ASRock U-COP (voir **ATTENTION 15**)

	- 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 64-bit
Certifications	- FCC, CE, WHQL - Prêt pour EuP (alimentation Prêt pour EuP requise) (voir **ATTENTION 16**)

* 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 les FSB1600/1333/1066/800 MHz natifs . Pour un fonctionnement normal, vous n'avez pas besoin de régler les paramètres des cavaliers. Pour le mode spécial d'overclocking (surcadençage), veuillez vous référez à la page 48 et 49 pour les paramètres corrects des cavaliers.
2. En ce qui concerne le paramétrage "Hyper-Threading Technology", veuillez consulter la page 43 du manuel de l'utilisateur sur le CD technique.
3. Cette carte mère prend en charge la technologie Untied Overclocking. Veuillez lire "La technologie de surcadençage à la volée" à la page 24 pour plus d'informations.
4. 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 14 pour réaliser une installation correcte.
5. Veuillez vérifier dans le tableau ci-dessous pour les fréquences de prise en charge mémoire et les fréquences FSB UC correspondantes.

Fréquence FSB UC	Fréquence de prise en charge mémoire
1600	DDR3 800, DDR3 1066, DDR3 1333, DDR3 1600 * DDR2 800, DDR2 1066, DDR2 1200 *
1333	DDR3 800, DDR3 1066, DDR3 1333 DDR2 667, DDR2 800, DDR2 1066, DDR2 1200 *
1066	DDR3 800, DDR3 1066 DDR2 667, DDR2 800, DDR2 1066
800	DDR3 800 DDR2 667, DDR2 800

* Les barrettes de mémoire DDR3 1600 / DDR2 1200 fonctionnent en mode overclockage. Dans cette situation, vous devez régler l'option BIOS de «DRAM Frequency» (fréquence DRAM) sur [800MHz DDR3_1600] ou [600MHz DDR2_1200] et ajuster les cavaliers. Veuillez vous référer à la page 48 pour les réglages de cavaliers appropriés.

6. 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.
7. 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.
8. Avant d'installer le disque dur SATAII au connecteur SATAII, veuillez lire le Guide « Installation du disque dur SATAII » à la page 28 du « Manuel de l'utilisateur » qui se trouve sur le CD de support pour régler votre lecteur de disque dur SATAII au mode SATAII. Vous pouvez aussi directement connecter le disque dur SATA au connecteur SATAII.
9. La gestion de l'alimentation pour l'USB 2.0 fonctionne bien sous Microsoft® Windows® 7 64-bit / 7 / Vista™ 64-bit/ Vista™ / XP 64-bit / XP SP1; SP2.
10. 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
11. Comprenant une conception matérielle et logicielle propriétaire avancée, Intelligent Energy Saver est une technologie révolutionnaire qui offre des gains d'énergie incomparables. En d'autres termes, il est capable d'apporter des économies d'énergie exceptionnelles et d'améliorer l'efficacité énergétique sans sacrifier aux performances de calcul. Veuillez visiter notre site Web pour les procédures d'utilisation d'Intelligent Energy Saver.
    Site Web ASRock : http://www.asrock.com

12. 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.
13. 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.
14. Même si cette carte mère offre un contrôle sans souci, il n'est pas recommandé d'y appliquer un over clocking. Des fréquences de bus CPU autres que celles recommandées risquent de rendre le système instable ou d'endommager le CPU et la carte mère.
15. 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.
16. 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.

Ferme Ouvert

Le cavalier		Description
PS2_USB_PWR1 (voir p.2 No. 2)		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.

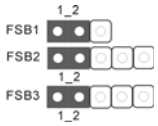
Effacer la CMOS
(CLRCMOS1,
le cavalier à 3 broches)
(voir p.2 No. 32)

Paramètres par défaut — Effacer la CMOS

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.

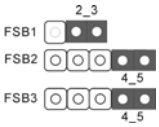
Cavalier FSB1 / FSB2 / FSB3

(Cavalier 3 broches FSB1, voir p.2 No. 33)
(Cavalier 5 broches FSB2, voir p.2 No. 33)
(Cavalier 5 broches FSB3, voir p.2 No. 33)



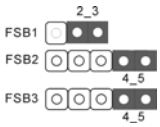
Paramètres par défaut

Si vous voulez overclocker la barrette de mémoire choisie en DDR2 1200 sur cette carte mère, vous devez ajuster les cavaliers. Veuillez court-circuiter les broches 2 et 3 pour le cavalier FSB1, les broches 4 et 5 pour le cavalier FSB2, et les broches 4 et 5 pour le cavalier FSB3. Autrement, la barrette de mémoire peut ne pas fonctionner correctement sur cette carte mère. Veuillez vous référer aux réglages de cavalier ci-dessous.

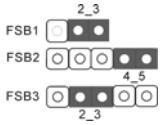


Quand vous montez un processeur FSB800 ou FSB1066, et essayez de surcadencer à FSB1333 ou FSB1600 (en réglant le BIOS) Vous pouvez faire face le problème, que la fréquence de la mémoire DRAM sera très fortement surfréquencée. Veuillez utiliser le cavalier pour forcer la carte mère À être bouclée à une fréquence plus élevée, de sorte que la mémoire DRAM puisse fonctionner à une fréquence plus basse.

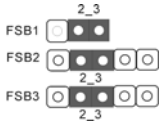
Si vous voulez overclocker le CPU que vous avez choisi vers un FSB1066 sur cette carte mère, vous devez régler les cavaliers. Veuillez mettre en contact les bornes 2 et 3 pour le cavalier FSB1, les bornes 4 et 5 pour le cavalier FSB2 et les bornes 4 et 5 pour le cavalier FSB3. Dans le cas contraire, le CPU peut ne pas fonctionner correctement sur cette carte mère. Veuillez vous référer ci-dessous pour les réglages des cavaliers.



Si vous voulez overclocker le CPU que vous avez choisi vers un FSB1333 sur cette carte mère, vous devez régler les cavaliers. Veuillez mettre en contact les bornes 2 et 3 pour le cavalier FSB1, les bornes 4 et 5 pour le cavalier FSB2 et les bornes 2 et 3 pour le cavalier FSB3. Dans le cas contraire, le CPU peut ne pas fonctionner correctement sur cette carte mère. Veuillez vous référer ci-dessous pour les réglages des cavaliers.



Si vous voulez overclocker le CPU que vous avez choisi vers un FSB1600 sur cette carte mère, vous devez régler les cavaliers. Veuillez mettre en contact les bornes 2 et 3 pour le cavalier FSB1, les bornes 2 et 3 pour le cavalier FSB2 et les bornes 2 et 3 pour le cavalier FSB3. Dans le cas contraire, le CPU peut ne pas fonctionner correctement sur cette carte mère. Veuillez vous référer ci-dessous pour les réglages des cavaliers.



Français

1.4 En-têtes et Connecteurs sur Carte

Les en-têtes et connecteurs sur carte NE SONT PAS des cavaliers. NE PAS placer les capuchons de cavalier sur ces en-têtes et connecteurs. Le fait de placer les capuchons de cavalier sur les en-têtes et connecteurs causera à la carte mère des dommages irréversibles!

Connecteur du lecteur de disquette
(FLOPPY1 br. 33)
(voir p.2 No. 24)

le côté avec fil rouge côté Broche1

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)

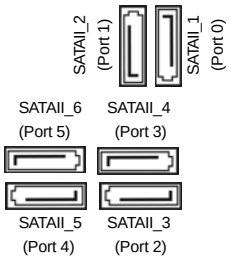
connecteur bleu vers la carte mère

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 No. 11)
(SATAII_2 (Port 1): voir p.2 No. 10)
(SATAII_3 (Port 2): voir p.2 No. 17)
(SATAII_4 (Port 3): voir p.2 No. 16)
(SATAII_5 (Port 4): voir p.2 No. 18)
(SATAII_6 (Port 5): voir p.2 No. 19)



Ces six connecteurs Série ATAII (SATAII) prennent en charge les câbles SATA pour les périphériques de stockage internes. L'interface SATAII actuelle permet des taux transferts de données pouvant aller jusqu'à 3,0 Gb/s.

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

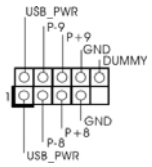
Toute cote du cable de data SATA peut etre connecte au disque dur SATA / SATAII ou au connecteur SATAII sur la carte mere.

Français

En-tête USB 2.0

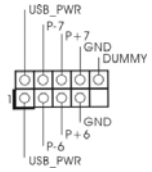
(US8_9 br.9)

(voir p.2 No. 22)



(US6_7 br.9)

(voir p.2 No. 20)

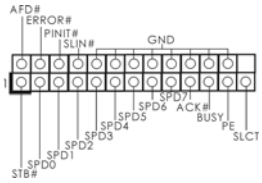


A côté des six ports USB 2.0 par défaut sur le panneau E/S, il y a deux embases USB 2.0 sur cette carte mère. Chaque embase USB 2.0 peut prendre en charge 2 ports USB 2.0.

Embase de port d'impression

(LPT1 25 broches)

(voir p.2 No. 31)

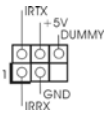


AII s'agit d'une interface pour le câble du port d'impression, qui permet le raccordement pratique de périphériques d'impression.

En-tête du module infrarouge

(IR1 br.5)

(voir p.2 No. 29)

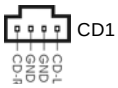


Cet en-tête supporte un module infrarouge optionnel de transfert et de réception sans fil.

Connecteurs audio internes

(CD1 br. 4)

(CD1: voir p.2 No. 25)

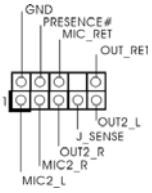


Ils vous permettent de gérer des entrées audio à partir de sources stéréo comme un CD-ROM, DVD-ROM, un tuner TV ou une carte MPEG.

Connecteur audio panneau avant

(HD_AUDIO1 br. 9)

(voir p.2 No. 26)



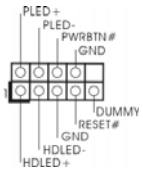
C'est une interface pour un câble audio en façade qui permet le branchement et le contrôle commodes de périphériques audio.

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.

Français

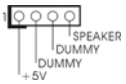
2. Si vous utilisez le panneau audio AC'97, installez-le sur l'adaptateur audio du panneau avant conformément à la procédure ci-dessous :
   A. Connectez Mic_IN (MIC) à MIC2_L.
   B. Connectez Audio_R (RIN) à OUT2_R et Audio_L (LIN) à OUT2_L.
   C. Connectez Ground (GND) à Ground (GND).
   D. MIC_RET 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].

En-tête du panneau système
(PANEL1 br.9)
(voir p.2 No. 15)



Cet en-tête permet d'utiliser plusieurs fonctions du panneau système frontal.

En-tête du haut-parleur de châssis
(SPEAKER1 br. 4)
(voir p.2 No. 14)



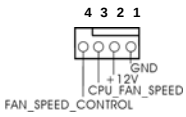
Veuillez connecter le haut-parleur de châssis sur cet en-tête.

Connecteur pour châssis et ventilateur
(CHA_FAN1 br. 3)
(voir p.2 No. 13)

(PWR_FAN1 br. 3)
(voir p.2 No. 7)

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

Connecteur du ventilateur de l'UC
(CPU_FAN1 br. 4)
(voir p.2 No. 4)



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

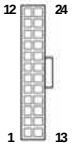
ien que cette carte mère offre un support de (Ventilateur silencieux) ventilateur de CPU à 4 broches , le ventilateur de CPU à 3 broches peut bien fonctionner même sans la fonction de commande de vitesse du ventilateur. Si vous prévoyez de connecter le ventilateur de CPU à 3 broches au connecteur du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

Installation de ventilateur à 3 broches

Broches 1-3 connectées

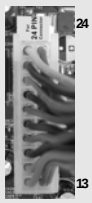
Français

En-tête d'alimentation ATX
(ATXPWR1 br. 24)
(voir p.2 No. 8)



Veuillez connecter l'unité d'alimentation ATX sur cet en-tête.

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.

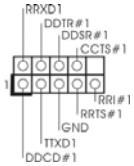


20-Installation de l'alimentation électrique ATX

Connecteur ATX 12V
(ATX12V1 br.4)
(voir p.2 No. 1)

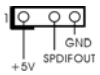
Veuillez connecter une unité d'alimentation électrique ATX 12V sur ce connecteur.

En-tête de port COM
(COM1 br.9)
(voir p.2 No. 23)



Cette en-tête de port COM est utilisée pour prendre en charge un module de port COM.

Connecteur HDMI_SPDIF
(HDMI_SPDIF1 3-pin)
(voir p.2 No. 35)

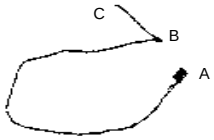


Connecteur HDMI_SPDIF, fournissant une sortie audio SPDIF vers la carte VGA HDMI, et permettant au système de se connecter au un téléviseur numérique HDMI /un projecteur / un périphérique LCD. Veuillez brancher le connecteur HDMI_SPDIF de la carte VGA HDMI sur ce connecteur.

Français

Câble HDMI_SPDIF

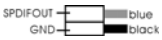
(en option)



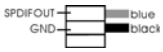
Veuillez connecter l'extrémité noire (A) du câble HDMI_SPDIF au collecteur HDMI_SPDIF de la carte-mère. Connectez ensuite l'extrémité blanche (B ou C) du câble HDMI_SPDIF au connecteur HDMI_SPDIF de la carte VGA HDMI.

A. extrémité noire

B. extrémité blanche (2 briches)



C. extrémité blanche (3 briches)



Français

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 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 ***P43C-ME***, 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 ***P43C-ME***
(Micro ATX Form Factor: 9.6-in x 8.3-in, 24.4 cm x 21.1 cm)
Guida di installazione rapida ASRock ***P43C-ME***
CD di supporto ASRock ***P43C-ME***
Un cavo IDE 80-pin Ultra ATA 66/100/133
Due cavi dati Serial ATA (SATA) (opzionali)
Un I/O Shield

1.2 Specifiche

Piattaforma	- Micro ATX Form Factor: 9.6-in x 8.3-in, 24.4 cm x 21.1 cm
Processore	- LGA 775 per Intel® Core™ 2 Extreme / Core™ 2 Quad / Core™ 2 Duo / Pentium® Dual Core / Celeron® Dual Core / Celeron® in grado di supportare processori Penryn Quad Core Yorkfield e Dual Core Wolfdale - FSB 1600/1333/1066/800 MHz (vedi **ATTENZIONE 1**) - Supporto tecnologia Hyper Threading (vedi **ATTENZIONE 2**) - Supporta la tecnologia overclocking "slegata" (vedi **ATTENZIONE 3**) - Supporto CPU EM64T
Chipset	- Northbridge: Intel® P43 - Southbridge: Intel® ICH10
Memoria	- Supporto tecnologia Dual Channel DDR3 / DDR2 Memory (vedi **ATTENZIONE 4**) - 2 x slot DDR3 DIMM - Supporto DDR3 1600(OC)/1333/1066 non-ECC, momoria senza buffer (vedi **ATTENZIONE 5**) - Capacità massima della memoria di sistema: 8GB (vedi **ATTENZIONE 6**) - 2 x slot DDR2 DIMM - Supporto DDR2 1200(OC)/1066/800/667 non-ECC, momoria senza buffer (vedi **ATTENZIONE 5**) - Capacità massima della memoria di sistema: 8GB (vedi **ATTENZIONE 6**)
Slot di espansione	- 1 x slot PCI Express 2.0 x16 (blu a modalità x16) - 1 x slot PCI Express x1 - 2 x slot PCI
Audio	- 7.1 Audio HD CH (VIA® VT1718S Audio Codec)
LAN	- PCIE x1 Gigabit LAN 10/100/1000 Mb/s - Realtek RTL8111DL - Supporta Wake-On-LAN
Pannello posteriore I/O	I/O Panel - 1 x porta PS/2 per mouse - 1 x porta PS/2 per tastiera - 1 x Porta coassiale SPDIF Out - 1 x Porta ottica SPDIF Out - 6 x porte USB 2.0 già integrate - 1 x porte LAN RJ-45 con LED (LED azione/collegamento e LED velocità)

	- Connettore HD Audio: cassa laterale / cassa posteriore / cassa centrale / bassi / ingresso linea / cassa frontale / microfono (vedi **ATTENZIONE 7**)
Connettori	- 6 x connettori SATAII 3.0Go/s, sopporta NCQ, AHCI e "Collegamento a caldo" (vedi **ATTENZIONE 8**) - 1 x connettori ATA133 IDE (supporta fino a 2 dispositivi IDE) - 1 x porta Floppy - 1 x Collettore modulo infrarossi - 1 x Collettore porta stampante - 1 x collettore porta COM - 1 x connettore HDMI_SPDIF - Connettore CPU/Chassis/Alimentazione ventola - 24-pin collettore alimentazione ATX - 4-pin connettore ATX 12V - Connettori audio interni - Connettore audio sul pannello frontale - 2 x Collettore USB 2.0 (supporta 4 porte USB 2.0) (vedi **ATTENZIONE 9**)
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 CPU, DRAM, GTL, NB, SB, SB 1.1, VTT - Smart BIOS supportato
CD di supporto	- Driver, utilità, software antivirus (Versione dimostrativa), Suite software ASRock (Suite CyberLink DVD e Creative Sound Blaster X-Fi MB) (OEM e Versione demo)
Caratteristica speciale	- Sintonizzatore ASRock OC (vedi **ATTENZIONE 10**) - Intelligent Energy Saver (Risparmio intelligente dell'energia) (vedi **ATTENZIONE 11**) - Instant Boot - ASRock Instant Flash (vedi **ATTENZIONE 12**) - ASRock OC DNA (vedi **ATTENZIONE 13**) - Booster ibrido: - Stepless control per frequenza del processore (vedi **ATTENZIONE 14**) - ASRock U-COP (vedi **ATTENZIONE 15**) - Boot Failure Guard (B.F.G.)
Monitoraggio 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
Compatibilità SO	- Microsoft® Windows® 7 / 7 64 bit / Vista™ / Vista™ 64 bit / XP / XP 64 bit
Certificazioni	- FCC, CE, WHQL - Predisposto EuP (è necessaria l'alimentazione predisposta per il sistema EuP) (vedi **ATTENZIONE 16**)

* 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 FSB1600/1333/1066/800 MHz nativa. Per il funzionamento normale, non è necessario regolare le impostazioni del jumper. Per la modalità overclocking, fare riferimento alla pagine 63 e 64 per la corretta impostazione del jumper.
2. Per il settaggio della "Tecnologia Hyper-Threading", per favore controllare pagina 43 del Manuale dell'utente all'interno del CD di supporto.
3. Questa scheda madre supporta la tecnologia overclocking "slegata". Per i dettagli leggere "Tecnologia di Untied Overclocking" a pagina 24.
4. 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 14, per seguire un'installazione appropriata.
5. Controllare la tavola che segue per le frequenze di supporto di memoria e le loro corrispondenti frequenze CPU FSB.

Fréquence FSB UC	Fréquence de prise en charge mémoire
1600	DDR3 800, DDR3 1066, DDR3 1333, DDR3 1600 * DDR2 800, DDR2 1066, DDR2 1200 *
1333	DDR3 800, DDR3 1066, DDR3 1333 DDR2 667, DDR2 800, DDR2 1066, DDR2 1200 *
1066	DDR3 800, DDR3 1066 DDR2 667, DDR2 800, DDR2 1066
800	DDR3 800 DDR2 667, DDR2 800

Italiano

* I moduli di memoria DDR3 1600 / DDR2 1200 funzioneranno in modalità di overclocking. In questa situazione, è necessario regolare l'opzione BIOS "DRAM Frequency" (Frequenza DRAM) su [800MHz DDR3_1600] o [600MHz DDR2_1200] ed è necessario regolare i jumper. Fare riferimento a pagina 63 per l'appropriata impostazione dei jumper.

6. 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.
7. 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.
8. Prima di installare il disco rigido SATAII con il connettore SATAII, leggere la "Guida per la configurazione del disco rigido SATAII" a pagina 28 del "Manuale utente" nel CD in dotazione in modo da poter predisporre il disco rigido SATAII per la modalità SATAII. È anche possibile connettere il disco rigido SATA direttamente al connettore SATAII.
9. La Gestione Risorse per USB 2.0 funziona perfettamente con Microsoft® Windows® 7 64 bit / 7 / Vista™ 64 bit / Vista™ / XP 64 bit / XP SP1; SP2.
10. 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
11. Dotato di un design avanzato e brevettato dell'hardware e del software, Intelligent Energy Saver è una tecnologia rivoluzionaria che offre un risparmio energetico senza pari. In altre parole: è capace di fornire un risparmio energetico eccezionale e di migliorare l'efficienza senza sacrificare le prestazioni di computazione. Visitare il nostro sito per informazioni sulle procedure operative di Intelligent Energy Saver.
    Sito ASRock: http://www.asrock.com
12. 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.

13. 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.
14. Anche se questa motherboard offre il controllo stepless, non si consiglia di effettuare l'overclocking. Frequenze del bus del processore diverse da quelle raccomandate possono causare instabilità al sistema o danni al processore e alla scheda madre.
15. 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.
16. 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_PWR1 (vedi p.2 Nr. 2)		Cortocircuitare pin2, pin3 per settare a +5VSB (standby) e abilitare PS/2 o USB wake up events.

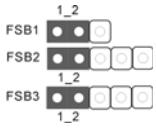
Nota: Per selezionare +5VSB, si richiedono almeno 2 Ampere e il consumo di corrente in standby sarà maggiore.

Resettare la CMOS (CLRCMOS1, jumper a 3 pin) (vedi p.2 Nr. 32)		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.

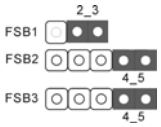
Jumper FSB1 / FSB2 / FSB3

(FSB1, jumper a 3 pin, vedere pagina 2 numero 33)
(FSB2, jumper a 5 pin, vedere pagina 2 numero 33)
(FSB3, jumper a 5 pin, vedere pagina 2 numero 33)



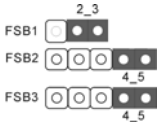
Impostazione predefinita

Se si vuole eseguire l'overclocking dei moduli di memoria DDR2 1200 impiegati su questa scheda madre, è necessario regolare i jumper. Cortocircuitare pin 2 e pin 3 per il jumper FSB1; pin 4 e pin 5 per il jumper FSB2; pin 4 e pin 5 per il jumper FSB3. Diversamente il modulo di memoria può non funzionare in modo appropriato su questa scheda madre. Fare riferimento a quanto segue per l'impostazione dei jumper.

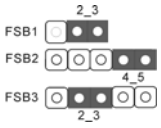


Quando si installa una CPU FSB800 o FSB1066, e si prova ad eseguire l'overclock su FSB1333 o FSB1600 (tramite impostazione BIOS) potrebbe verificarsi il problema di overlclock troppo alto per la frequenza DRAM. Utilizzare il jumper per forzare NB in modo da assicurare una frequenza più alta, in modo tale che la DRAM possa lavorare a un frequenza più bassa.

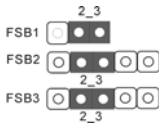
Se si desidera eseguire l'overclock della CPU adottata a FSB1066, è necessario regolare i jumper. Ridurre pin2, pin3 per jumper FSB1, pin4, pin5 per jumper FSB2 e pin4, pin5 per jumper FSB3. In caso contrario la CPU potrebbe non funzionare correttamente su questa scheda madre. Fare riferimento alle seguenti impostazioni jumper.



Se si desidera eseguire l'overclock della CPU adottata a FSB1333, è necessario regolare i jumper. Ridurre pin2, pin3 per jumper FSB1, pin4, pin5 per jumper FSB2 e pin2, pin3 per jumper FSB3. In caso contrario la CPU potrebbe non funzionare correttamente su questa scheda madre. Fare riferimento alle seguenti impostazioni jumper.



Se si desidera eseguire l'overclock della CPU adottata a FSB1600, è necessario regolare i jumper. Ridurre pin2, pin3 per jumper FSB1, pin2, pin3 per jumper FSB2 e pin2, pin3 per jumper FSB3. In caso contrario la CPU potrebbe non funzionare correttamente su questa scheda madre. Fare riferimento alle seguenti impostazioni jumper.



Italiano

1.4 Collettori e Connettori su Scheda

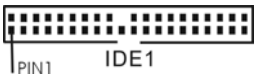
I collettori ed i connettori su scheda NON sono dei jumper. NON installare cappucci per jumper su questi collettori e connettori. L'installazione di cappucci per jumper su questi collettori e connettori provocherà danni permanenti alla scheda madre!

Connettore del Floppy disk
(33-pin FLOPPY1)
(vedi p.2 Nr. 24)

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)



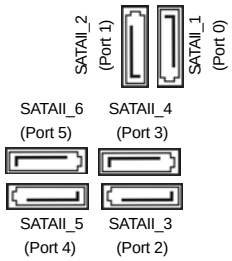
Connettore blu alla schedamadre

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. 11)
(SATAII_2 (Port 1): vedi p.2 Nr. 10)
(SATAII_3 (Port 2): vedi p.2 Nr. 17)
(SATAII_4 (Port 3): vedi p.2 Nr. 16)
(SATAII_5 (Port 4): vedi p.2 Nr. 18)
(SATAII_6 (Port 5): vedi p.2 Nr. 19)



Questi sei connettori Serial ATAII (SATAII) supportano cavi dati SATA per dispositivi di immagazzinamento interni. ATAII (SATAII) supportano cavi SATA 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)

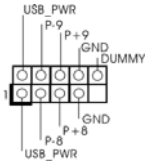
Una o altra estremità del cavo di dati SATA può essere collegata al disco rigido SATA / SATAII o al connettore di SATAII su questa cartolina base.

Italiano

Collettore USB 2.0

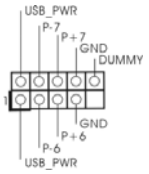
(9-pin USB8_9)

(vedi p.2 Nr. 22)



(9-pin USB6_7)

(vedi p.2 Nr. 20)

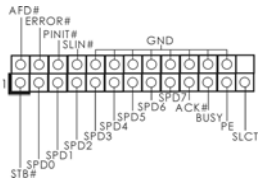


Oltre alle sei porte USB 2.0 predefinite nel pannello I/O, la scheda madre dispone di due intestazioni USB 2.0. Ciascuna intestazione USB 2.0 supporta due porte USB 2.0.

Collettore porta stampante

(LPT1 25 pin)

(vedi p.2 No. 31)

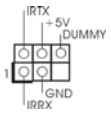


Questa è un'interfaccia per il cavo porta stampante che consente di collegare, con comodità, dispositivi di stampa.

Collettore modulo infrarossi

(5-pin IR1)

(vedi p.2 Nr. 29)

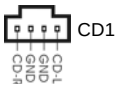


Questo collettore supporta moduli ad infrarossi optional per la trasmissione e la ricezione senza fili.

Connettori audio interni

(4-pin CD1)

(vedi p.2 Nr. 25)

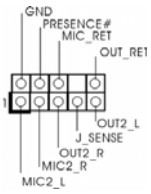


Permettono di ricevere input stereo audio da fonti di suono come CD-ROM, DVD - ROM,TV tuner, o schede MPEG.

Connettore audio sul pannello frontale

(9-pin HD_AUDIO1)

(vedi p.2 Nr. 26)



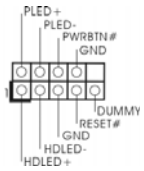
È un'interfaccia per il cavo del pannello audio. Che consente connessione facile e controllo dei dispositivi audio.

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.

Italiano

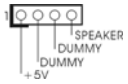
2. Se si utilizza un pannello audio AC'97, installarlo nell'intestazione audio del pannello anteriore, come indicato di seguito:
   A. Collegare Mic_IN (MIC) a MIC2_L.
   B. Collegare Audio_R (RIN) a OUT2_R e Audio_L (LIN) ad OUT2_L.
   C. Collegare Ground (GND) a Ground (GND).
   D. MIC_RET e OUT_RET 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].

Collettore pannello di sistema
(9-pin PANEL1)
(vedi p.2 Nr. 15)



Questo collettore accomoda diverse funzioni di sistema pannello frontale.

Collettore casse telaio
(4-pin SPEAKER1)
(vedi p.2 Nr. 14)



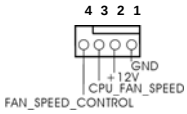
Collegare le casse del telaio a questo collettore.

Collettori Chassis ed alimentazione ventola
(3-pin CHA_FAN1)
(vedi p.2 Nr. 13)

(3-pin PWR_FAN1)
(vedi p.2 Nr. 7)

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 Nr. 4)



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

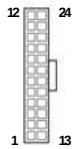
Sebbene la presente scheda madre disponga di un supporto per ventola CPU a 4 piedini (ventola silenziosa), la ventola CPU a 3 piedini è in grado di funzionare anche senza la funzione di controllo della velocità della ventola. Se si intende collegare la ventola CPU a 3 piedini al connettore della ventola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

Piedini 1-3 collegati

Installazione della ventola a 3 piedini

Italiano

Connettore alimentazione ATX
(24-pin ATXPWR1)
(vedi p.2 Nr. 8)



Collegare la sorgente d'alimentazione ATX a questo connettore.

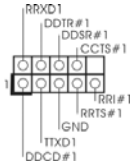
Con questa scheda madre, c'è in dotazione un connettore elettrico ATX a 24 pin, ma può funzionare lo stesso se si adotta un alimentatore ATX a 20 pin. Per usare l'alimentatore ATX a 20 pin, collegare l'alimentatore con il Pin 1 e il Pin 13.

Installazione dell'alimentatore ATX a 20 pin

Connettore ATX 12 V
(4-pin ATX12V1)
(vedi p.2 Nr. 1)

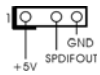
Collegare un alimentatore ATX 12 V a questo connettore.

Collettore porta COM
(9-pin COM1)
(vedi p.2 Nr. 23)



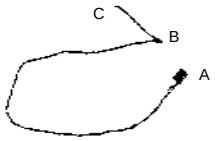
Questo collettore porta COM è utilizzato per supportare il modulo porta COM.

Header HDMI_SPDIF
(3-pin HDMI_SPDIF1)
(vedi p.2 Nr. 35)



Header HDMI_SPDIF, con uscita audio SPDIF su scheda HDMI VGA, consente al sistema di collegare dispositivi per TV digitale HDMI/proiettori/ LCD . Collegare il connettore HDMI_SPDIF della scheda VGA HDMI a questo header.

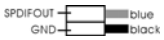
Cavo HDMI_SPDIF
(opzionale)



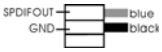
Collegare l'estremità nera (A) del cavo HDMI_SPDIF all'intestazione HDMI_SPDIF sulla scheda madre. Quindi collegare l'estremità bianca (B o C) del cavo HDMI_SPDIF al connettore HDMI_SPDIF della scheda HDMI VGA.

A. estremità nera

B. estremità bianca (2 pin)



C. estremità bianca (3 pin)



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. 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 / 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 ***P43C-ME*** 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 ***P43C-ME***

(Factor forma Micro ATX: 24,4 cm x 21,1 cm, 9,6” x 8,3”)

Guía de instalación rápida de ASRock ***P43C-ME***

CD de soporte de ASRock ***P43C-ME***

Una cinta de datos IDE de conducción 80 Ultra ATA 66/100/133

Dos cables de datos Serial ATA (SATA) (Opcional)

Una protección I/O

1.2 Especificación

Plataforma	- Factor forma Micro ATX: 24,4 cm x 21,1 cm, 9,6" x 8,3"
Procesador	- LGA 775 para Intel® Core™ 2 Extreme / Core™ 2 Quad / Core™ 2 Duo / Pentium® Doble Núcleo / Celeron® Doble Núcleo / Celeron® compatible con procesadores Yorkfield de Penryn Núcleo Cuádruple y Wolfdale de Doble Núcleo - FSB 1600/1333/1066/800 MHz (ver **ATENCIÓN 1**) - Admite tecnología Hyper Threading (ver **ATENCIÓN 2**) - Admite tecnología de aumento de velocidad liberada (vea **ATENCIÓN 3**) - Admite CPU EM64T
Chipset	- North Bridge: Intel® P43 - South Bridge: Intel® ICH10
Memoria	- Soporte de Tecnología de Memoria de Doble Canal (ver **ATENCIÓN 4**) - 2 x DDR3 DIMM slots - Apoya DDR3 1600(OC)/1333/1066/800 non-ECC, memoria de un-buffered (vea **ATENCIÓN 5**) - Máxima capacidad de la memoria del sistema: 8GB (vea **ATENCIÓN 6**) - 2 x DDR2 DIMM slots - Apoya DDR2 1200(OC)/1066/800/667 non-ECC, memoria de un-buffered (vea **ATENCIÓN 5**) - Máxima capacidad de la memoria del sistema: 8GB (vea **ATENCIÓN 6**)
Ranuras de Expansión	- 1 x ranuras PCI Express 2.0 x16 (azul @ modo x16) - 1 x ranuras PCI Express x1 - 2 x ranuras PCI
Audio	- Sonido HD de 7.1 Canales (Códec de sonido VIA® VT1718S)
LAN	- PCIE x1 Gigabit LAN 10/100/1000 Mb/s - Realtek RTL8111DL - Soporta Wake-On-LAN
Entrada/Salida de Panel Trasero	I/O Panel - 1 x puerto de ratón PS/2 - 1 x puerto de teclado PS/2 - 1 x puerto de salida coaxial SPDIF - 1 x puerto de salida óptica SPDIF - 6 x puertos USB 2.0 predeterminados - 1 x Puerto LAN RJ-45 con LED (LED de ACCIÓN/ENLACE y LED de VELOCIDAD)

	- Conexión de audio: Altavoz lateral / Altavoz trasero / Central/Bajos / Entrada de línea / Altavoz frontal / Micrófono (ver **ATENCIÓN 7**)
Conectores	- 6 x conexiones SATAII, admiten una velocidad de transferencia de datos de hasta 3,0Gb/s, soporta NCQ, AHCI y "Conexión en caliente" (vea **ATENCIÓN 8**) - 1 x ATA133 conexiones IDE (admite hasta 2 dispositivos IDE) - 1 x puerto Floppy - 1 x Cabezal de Módulo Infrarrojos - 1 x cabecera de puerto de impresora - 1x En-tête de port COM - 1 x cabecera HDMI_SPDIF - 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 - 2 x Cabezal USB 2.0 (admite 4 puertos USB 2.0 adicionales) (vea **ATENCIÓN 9**)
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 CPU, DRAM, GTL, NB, SB, SB 1.1, VTT Voltage - Compatible con Smart BIOS
CD de soport	- Controladores, Utilerías, Software de Anti Virus (Versión de prueba), conjunto de aplicaciones ASRock (CyberLink DVD Suite y Creative Sound Blaster X-Fi MB) (OEM y versión de prueba)
Característica Única	- Sintonizador de ASRock OC (vea **ATENCIÓN 10**) - Administrador de energía inteligente (vea **ATENCIÓN 11**) - Instant Boot - ASRock Instant Flash (vea **ATENCIÓN 12**) - ASRock OC DNA (vea **ATENCIÓN 13**) - Amplificador Híbrido: - Stepless control de frecuencia de CPU (vea **ATENCIÓN 14**) - ASRock U-COP (vea **ATENCIÓN 15**) - 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 64 bits
Certificaciones	- FCC, CE, WHQL - Cumple con la directiva EuP (se requiere una fuente de alimentación que cumpla con la directiva EuP) (vea **ATENCIÓN 16**)

* 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 procesadores FSB1600/1333/1066/800 MHz nativo. Para conseguir un funcionamiento normal no es necesario ajustar la configuración de los puentes. Para obtener información sobre el modo de aumento de velocidad del reloj, consulte la página 77 y 78 en la que encontrará la configuración de los puentes adecuados.
2. Por favor consulte página 43 del Manual del Usuario en el soporte CD sobre la configuración de Hyper-Threading Technology.
3. 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 24 para obtener detalles.
4. 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 14 para su correcta instalación.
5. Compruebe la tabla siguiente para conocer la frecuencia de soporte de memoria y su frecuencia FSB CPU correspondiente.

Frecuencia FSB CPU	Frecuencia de soporte de memoria
1600	DDR3 800, DDR3 1066, DDR3 1333, DDR3 1600 * DDR2 800, DDR2 1066, DDR2 1200 *
1333	DDR3 800, DDR3 1066, DDR3 1333 DDR2 667, DDR2 800, DDR2 1066, DDR2 1200 *
1066	DDR3 800, DDR3 1066 DDR2 667, DDR2 800, DDR2 1066
800	DDR3 800 DDR2 667, DDR2 800

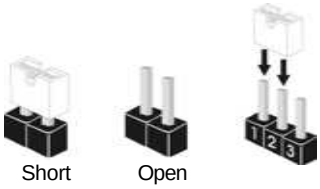
* Los módulos de memoria DDR3 1600 / DDR2 1200 funcionarán en modo overclock. Si desea utilizar dicho modo, necesitará ajustar la opción “DRAM Frequency” (Frecuencia de DRAM) del sistema BIOS a [800 MHz DDR3_1600] o [600 MHz DDR2_1200] y ajustar los puentes. Consulte la página 77 si desea obtener más información acerca de la configuración correcta de los puentes.

6. 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.
7. 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.
8. Antes de instalar un disco duro SATAII en el conector SATAII, consulte la sección “Guía de instalación de discos duros SATAII” en la página 28 del “Manual de usuario” que se incluye en el CD de soporte para configurar su disco duro SATAII en modo SATAII. También puede conectar un disco duro SATA directamente al conector SATAII.
9. Power Management para USB 2.0 funciona bien bajo Microsoft® Windows® 7 64 bits / 7 / Vista™ 64 bits / Vista™ / XP 64 bits / XP SP1; SP2.
10. 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
11. Contiene avanzado hardware y diseño de software de propietario. Intelligent Energy Saver es una revolucionaria tecnología que consigue ahorros de energía sin rival. En otras palabras, permite alcanzar un nivel de ahorro de energía excepcional y mejorar la eficiencia energética sin sacrificar el rendimiento del procesador. Visite nuestro sitio web para más información acerca del funcionamiento de Intelligent Energy Saver. Sitio web de ASRock: http://www.asrock.com

12. 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.
13. 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.
14. 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.
15. 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.
16. 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 siguiente ilustración muestra setup de Jumpers. Cuando el jumper cap está colocado sobre los pins, el jumper está “SHORT”. Si ningun jumper cap está colocado sobre los pins, el jumper está “OPEN”. La ilustración muestra un jumper de 3-pin cuyo pin1 y pin2 están “SHORT” cuando el jumper cap está colocado sobre estes 2 pins.



Short Open

Jumper	Setting	Descripción
PS2_USB_PWR1 (vea p.2, N. 2)	 1_2 +5V 2_3 +5VSB	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)
(vea p.2, N. 32)

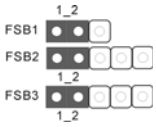
Valor predeterminado

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.

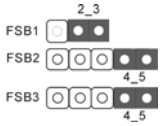
Jumper FSB1 / FSB2 / FSB3

(FSB1, jumper de 3 patillas, consulte p.2 No. 33)
(FSB2, jumper de 5 patillas, consulte p.2 No. 33)
(FSB3, jumper de 5 patillas, consulte p.2 No. 33)



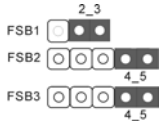
Valor predeterminado

Si desea utilizar el módulo de memoria en modo overclock, seleccione DDR2 1200 en esta placa base, para lo cual necesitará cambiar la posición de los puentes. Una las patillas 2 y 3 del puente FSB1, las patillas 4 y 5 del puente FSB2 y las patillas 4 y 5 del puente FSB3. De lo contrario, es posible que el módulo de memoria no funcione correctamente en esta placa base. Por favor, consulte la configuración de los puentes a continuación.

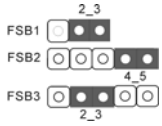


Cuando monte un procesador FSB800 o FSB1066 e intente aumentar la velocidad del reloj a FSB1333 o FSB1600 (mediante la configuración del BIOS) puede encontrarse el problema de que la frecuencia de la memoria DRAM aumente demasiado. Use el puente para obligar a NB a usar una frecuencia más alta de forma que la memoria DRAM pueda trabajar a una frecuencia inferior.

Si desea forzar la CPU para pasar a FSB1066, necesitará ajustar los puentes. Conecte el terminal 2 y el terminal 3 del puente FSB1, el terminal 4 y el terminal 5 del puente FSB2 y el terminal 4 y el terminal 5 del puente FSB3. De lo contrario, la CPU no funcionará correctamente en esta placa base. Por favor, consulte la configuración de los puentes a continuación.

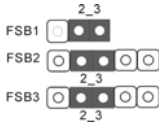


Si desea forzar la CPU para pasar a FSB1333, necesitará ajustar los puentes. Conecte el terminal 2 y el terminal 3 del puente FSB1, el terminal 4 y el terminal 5 del puente FSB2 y el terminal 2 y el terminal 3 del puente FSB3. De lo contrario, la CPU no funcionará correctamente en esta placa base. Por favor, consulte la configuración de los puentes a continuación.



Español

Si desea forzar la CPU para pasar a FSB1600, necesitará ajustar los puentes. Conecte el terminal 2 y el terminal 3 del puente FSB1, el terminal 2 y el terminal 3 del puente FSB2 y el terminal 2 y el terminal 3 del puente FSB3. De lo contrario, la CPU no funcionará correctamente en esta placa base. Por favor, consulte la configuración de los puentes a continuación.



1.4 Cabezales y Conectores en Placas

Los conectores y cabezales en placa NO son puentes. NO coloque las cubiertas de los puentes sobre estos cabezales y conectores. El colocar cubiertas de puentes sobre los conectores y cabezales provocará un daño permanente en la placa base.

Conector de disquetera
(33-pin FLOPPY1)
(vea p.2, N. 24)

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, N. 9)

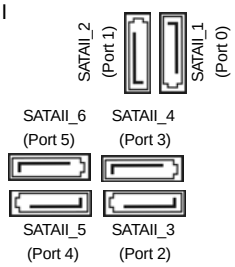
Conector azul
a placa madre

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, N. 11)
(SATAII_2 (Port 1): vea p.2, N. 10)
(SATAII_3 (Port 2): vea p.2, N. 17)
(SATAII_4 (Port 3): vea p.2, N. 16)
(SATAII_5 (Port 4): vea p.2, N. 18)
(SATAII_6 (Port 5): vea p.2, N. 19)



Estas seises conexiones de serie ATAII (SATAII) admiten cables SATA para dispositivos de almacenamiento internos. La interfaz SATAII actual permite una velocidad de transferencia de 3.0 Gb/s.

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

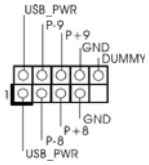
Cualquier extremo del cable de los datos de SATA puede ser conectado con el disco duro de SATA / SATAII o el conectador de SATAII en esta placa base.

Español

Cabezal USB 2.0

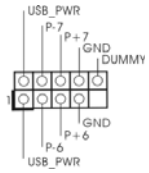
(9-pin USB8_9)

(vea p.2, N. 22)



(9-pin USB6_7)

(vea p.2, N. 20)

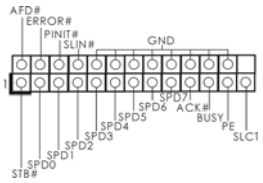


Además de seises puertos USB 2.0 predeterminados en el panel de E/S, hay dos bases de conexiones USB 2.0 en esta placa base. Cada una de estas bases de conexiones admite dos puertos USB 2.0.

Cabecera de puerto de impresora

(LPT1 de 25 terminales)

(vea p.2, N. 31)

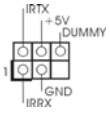


Esta es una interfaz de puerto para cable de impresora que permite conectar cómodamente dispositivos de impresión.

Cabezal de Módulo Infrarrojos

(5-pin IR1)

(vea p.2, N. 29)

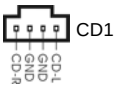


Este cabezal soporta un módulo infrarrojos de transmisión y recepción wireless opcional.

Conector de audio interno

(4-pin CD1)

(vea p.2, N. 25)

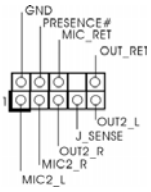


Permite recepción de input audio de fuente sónica como CD-ROM, DVD-ROM, TV tuner, o tarjeta MPEG.

Conector de audio de panel frontal

(9-pin HD_AUDIO1)

(vea p.2, N. 26)



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

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.

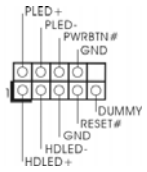
Español

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].

Cabezal de panel de sistema

(9-pin PANEL1)

(vea p.2, N. 15)

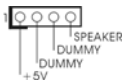


Este cabezar acomoda varias dunciones de panel frontal de sistema.

Cabezal del altavoz del chasis

(4-pin SPEAKER1)

(vea p.2, N. 14)



Conecte el altavoz del chasis a su cabezal.

Conectores de ventilador de chasis y alimentación

(3-pin CHA_FAN1)

(vea p.2, N. 13)

(3-pin PWR_FAN1)

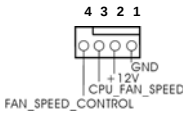
(vea p.2, N. 7)

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, N. 4)



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

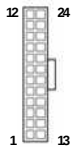
Instalación del ventilador de 3 contactos

Español

Cabezal de alimentación ATX

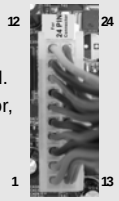
(24-pin ATXPWR1)

(vea p.2, N. 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)

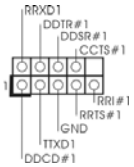
(vea p.2, N. 1)

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, N. 23)



Este cabezal del puerto COM se utiliza para admitir un módulo de puerto COM.

Cabecera HDMI_SPDIF

(HDMI_SPDIF1 de 3 pin)

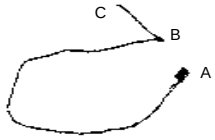
(vea p.2, N. 35)

Cabecera HDMI_SPDIF. Ofrece una salida SPDIF la tarjeta VGA HDMI, permite al sistema conectarse a dispositivos de TV Digital HDMI / proyectores / Dispositivos LCD. Conecte el conector HDMI_SPDIF de la tarjeta VGA HDMI a esta cabecera.

Español

Cable HDMI_SPDIF

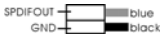
(Opcional)



Conecte el extremo negro (A) del cable HDMI_SPDIF en la cabecera HDMI_SPDIF de la placa base. Conecte después el extremo blanco (B o C) del cable HDMI_SPDIF en el conector HDMI_SPDIF de la tarjeta VGA HDMI.

A. Extremo negro

B. Extremo blanco (2 patillas)



C. Extremo blanco (3 patillas)

Español

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. 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 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. Introdução

Gratos por comprar nossa placa–mãe ***P43C-ME***, 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 ***P43C-ME***
(Formato Micro ATX: 9,6 pol. x 8,3 pol., 24,4 cm x 21,1 cm)
Guia de instalação rápida da ASRock ***P43C-ME***
CD de suporte da placa ASRock ***P43C-ME***
Um cabo-fita IDE Ultra ATA 66/100/133 de 80 condutores
Dois cabo de dados ATA Serial (SATA) (Opcional)
Uma proteção I/O

1.2 Especificações

Plataforma	- Formato Micro ATX: 9,6 pol. x 8,3 pol., 24,4 cm x 21,1 cm
CPU	- Socket Intel® Dual Core Core™ 2 Extreme / Core™ 2 Duo / Pentium® Dual Core / Celeron® de 775 pinos com suporte para o processador Dual Core Wolfdale - Suporta FSB1600/1333/1066/800 MHz (veja o **AVISO 1**) - Suporta a tecnologia Hyper-Threading (veja o **AVISO 2**) - Suporta a tecnologia Untied Overclocking (veja o **AVISO 3**) - Suporta a CPU EM64T
Chipsets	- North Bridge: Intel® P43 - South Bridge: Intel® ICH10
Memória	- Suporte à tecnologia de memória de duplo canal (veja o **AVISO 4**) - 2 x slots de DDR3 DIMM - Suporte para memória não intermédia DDR3 1600(OC)/ 1333/1066/800, não ECC (veja o **AVISO 5**) - Capacidade máxima de memória do sistema: 8GB (veja o **AVISO 6**) - 2 x slots de DDR2 DIMM - Suporte para memória não intermédia DDR2 1200(OC)/ 1066/800/667, não ECC (veja o **AVISO 5**) - Capacidade máxima de memória do sistema: 8GB (veja o **AVISO 6**)
Slots de Expansão	- 1 x slots de PCI Express 2.0 x16 (modo azul @ x16) - 1 x slots de PCI Express x1 - 2 x slots de PCI
Áudio	- Áudio de alta definição de canal 7.1 (Codec de áudio VIA® VT1718S)
LAN	- PCIE x1 Gigabit LAN 10/100/1000 Mb/s - Realtek RTL8111DL - Suporta Wake-On-LAN
Entrada/Saída pelo painel traseiro	I/O Panel - 1 x porta para mouse PS/2 - 1 x porta para teclado PS/2 - 1 x porta de saída SPDIF coaxial - 1 x porta óptica para saída SPDIF - 6 x portas USB 2.0 padrão - 1 x porta LAN RJ-45 com LED (LED ACT/LIG e LED VELOCIDADE)

	- HD Áudio Jack: Altifalante lateral / Altifalante traseiro / Central/Graves / Entrada de linha / Altifalante frontal / Microfone (veja o **AVISO 7**)
Conectores	- 6 x conectores SATAII, suporte a taxa de transferência de dados de até 3,0 Gb/s, suporte NCQ, AHCI e "conexão a quente" (veja o **AVISO 8**) - 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 de Porta de Impressão - 1 x conector da porta COM - 1 x conector HDMI_SPDIF - 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 - 2 x cabezal USB 2.0 (suporta 4 portas USB 2.0) (veja o **AVISO 9**)
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 - CPU, DRAM, GTL, NB, SB, SB 1.1, VTT Voltage Multi-adjustment - Suporte para Smart BIOS
CD de suporte	- Controladores, utilitários, software antivírus (Experimentacao Versao), conjunto de programas da ASRock (CyberLink DVD Suite e Creative Sound Blaster X-Fi MB) (OEM e versão de demonstração)
Funcionalidade Única	- Sintonizador ASRock OC (veja o **AVISO 10**) - Poupança de Energia Inteligente (veja o **AVISO 11**) - Instant Boot - ASRock Instant Flash (veja o **AVISO 12**) - ASRock OC DNA (veja o **AVISO 13**) - Booster híbrido: - Frequência da CPU com controle contínuo (veja o **AVISO 14**) - ASRock U-COP (veja o **AVISO 15**) - 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 / XP de 64 bits
Certificações	- FCC, CE, WHQL - "EuP Ready" (é necessária alimentação eléctrica "EuP Ready") (veja o **AVISO 16**)

* 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 FSB1600/1333/1066/800 MHz nativo. Para o funcionamento normal, não é necessário ajustar as definições dos jumpers. Para o modo especial de overclocking, consulte a página 106 e 107 para obter detalhes acerca dos ajustes adequados do jumper.
2. Sobre a configuração da "Tecnologia Hyper Threading", consulte a página 43 do Manual do Usuário no CD de suporte. (Somente inglês)
3. Esta placa principal suporta a tecnologia Untied Overclocking. Consulte a secção "Tecnologia Untied Overclocking" na página 24 para mais informações.
4. 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 14 para a instalação correta.
5. Veja na tabela abaixo a freqüência de suporte de memória e a correspondente freqüência FSB do processador.

Freqüência FSB do processador	Freqüência de suporte de memória
1600	DDR3 800, DDR3 1066, DDR3 1333, DDR3 1600 * DDR2 800, DDR2 1066, DDR2 1200 *
1333	DDR3 800, DDR3 1066, DDR3 1333 DDR2 667, DDR2 800, DDR2 1066, DDR2 1200 *
1066	DDR3 800, DDR3 1066 DDR2 667, DDR2 800, DDR2 1066
800	DDR3 800 DDR2 667, DDR2 800

* Os módulos DDR3 1600 / DDR2 1200 funcionarão em modo overclocking. Neste caso, é necessário ajustar a opção "DRAM Frequency" (Frequência DRAM) do BIOS para [800MHz DDR3_1600] ou [600MHz DDR2_1200] e ajustar os jumpers. Consulte a página 106 para obter detalhes acerca dos ajustes adequados dos jumpers.

6. 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.
7. 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.
8. Antes de instalar o disco duro SATAII no conector SATAII, por favor leia o "Guia de Instalação do Disco duro SATAII" na página 28 do Manual do Usuário no CD de suporte, para definir a sua unidade de disco duro SATAII com o modo SATAII. Também pode ligar directamente o disco duro SATA ao conector SATAII.
9. Power Management para USB 2.0 funciona bem embaixo de Microsoft® Windows® 7 64-bit / 7 / Vista™ 64-bit / Vista™ / XP 64-bit / XP SP1; SP2.
10. 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
11. Com um hardware de propriedades e concepção de software avançadas, a Intelligent Energy Saver é uma tecnologia revolucionária que proporciona poupanças de energia inéditas. Por outras palavras, pode providenciar uma excepcional poupança de energia e melhorar a eficiência energética sem sacrificar o desempenho. Por favor visite o nosso sítio Web para conhecer os procedimentos de funcionamento da Intelligent Energy Saver. Sítio Web da ASRock: http://www.asrock.com

12. 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.
13. 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.
14. 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.
15. 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.
16. 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.

Curto Aberto

Jumper	Configuração	
PS2_USB_PWR1 (veja a folha 2, No. 2)		Pin2, Pin3 curtos para habilitar +5VSB (stand by) para PS/2 ou eventos de wake up na USB.

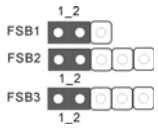
Nota: Para escolher +5VSB, é preciso uma corrente de stand by de 2 A ou mais.

Restaurar CMOS (CLRCMOS1, jumper de 3 pinos) (veja a folha 2, No. 32)	 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.

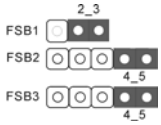
Jumper FSB1 / FSB2 / FSB3

(FSB1, jumper de 3 pinos, veja a folha 2, No. 33)
(FSB2, jumper de 5 pinos, veja a folha 2, No. 33)
(FSB3, jumper de 5 pinos, veja a folha 2, No. 33)



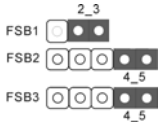
Predefinido

Se desejar efectuar overclock ao modulo de memória adoptado para DDR2 1200 nesta placa principal, será necessário ajustar os jumpers. Ligue os pinos 2 e 3 para o jumper FSB1, os pinos 4 e 5 para o jumper FSB2 e os pinos 4 e 5 para o jumper FSB3. Caso contrário, o módulo de memória poderá não funcionar devidamente nesta placa principal. Consulte os ajustes do jumper indicados abaixo.

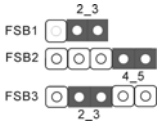


Se instalar uma CPU FSB800 ou FSB1066 e tentar efectuar overclock para FSB1333 ou FSB1600 (ajustando o BIOS) poderá originar o problema de overclock demasiado alto da frequência DRAM. Utilize o jumper para forçar o NB a fixar-se a uma frequência mais alta, para que a DRAM possa funcionar a uma frequência mais baixa.

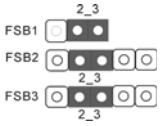
Se desejar efectuar overclock à CPU adoptada para FSB1066 nesta placa principal, será necessário ajustar os jumpers. Ligue os pinos 2 e 3 para o jumper FSB1, os pinos 4 e 5 para o jumper FSB2 e os pinos 4 e 5 para o jumper FSB3. Caso contrário, a CPU poderá não funcionar devidamente nesta placa principal. Consulte os ajustes do jumper indicados abaixo.



Se desejar efectuar overclock à CPU adoptada para FSB1333 nesta placa principal, será necessário ajustar os jumpers. Ligue os pinos 2 e 3 para o jumper FSB1, os pinos 4 e 5 para o jumper FSB2 e os pinos 2 e 3 para o jumper FSB3. Caso contrário, a CPU poderá não funcionar devidamente nesta placa principal. Consulte os ajustes do jumper indicados abaixo.



Se desejar efectuar overclock à CPU adoptada para FSB1600 nesta placa principal, será necessário ajustar os jumpers. Ligue os pinos 2 e 3 para o jumper FSB1, os pinos 2 e 3 para o jumper FSB2 e os pinos 2 e 3 para o jumper FSB3. Caso contrário, a CPU poderá não funcionar devidamente nesta placa principal. Consulte os ajustes do jumper indicados abaixo.



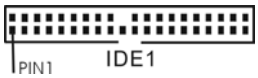
1.4 Conectores

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. 24)		

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)



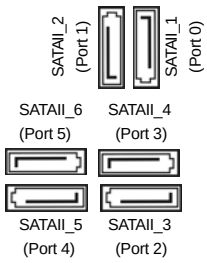
Ligue esta ponta (azul) à placa–mãe

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. 11)
(SATAII_2 (Port 1): veja a folha 2, No. 10)
(SATAII_3 (Port 2): veja a folha 2, No. 17)
(SATAII_4 (Port 3): veja a folha 2, No. 16)
(SATAII_5 (Port 4): veja a folha 2, No. 18)
(SATAII_6 (Port 5): veja a folha 2, No. 19)



Estes seis 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)

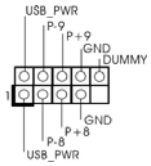
Tanto a saída do cabo de Serial dados SATA pode ser conectado ao disco rígido SATA / SATAII quanto o conector SATAII na placa mãe.

Português

Cabezal USB 2.0

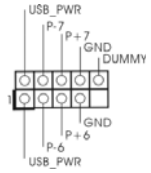
(USB8_9 de 9 pinos)

(veja a folha 2, No. 22)



(USB6_7 de 9 pinos)

(veja a folha 2, No. 20)

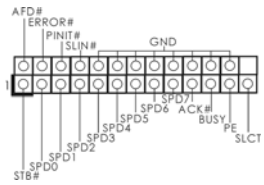


Além das seis portas USB 2.0 por defeito no painel de entrada/saída, há duas ligações USB 2.0 nesta placa-mãe. Cada ligação USB 2.0 pode suportar duas portas USB 2.0.

Conector de Porta de Impressão

(LPT1 de 25 pinos)

(veja a folha 2, No. 31)

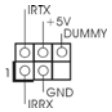


Esta é uma interface para um cabo de porta de impressão que permite uma ligação prática para dispositivos de impressão.

Conector do módulo de infravermelho

(IR1 de 5 pinos)

(veja a folha 2, No. 29)

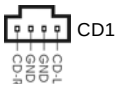


Este conector suporta um módulo de infravermelho para transmissão e recepção sem fio, opcional.

Conectores internos de áudio

(CD1 de 4 pinos)

(CD1: veja a floha 2, No. 25)

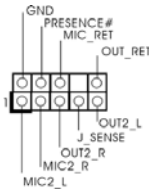


Estes conectores permitem que se receba entrada de áudio em estéreo de fontes de áudio como CD-ROM, DVD-ROM, placa sintonizadora de TV ou placa MPEG.

Conector Áudio do painel frontal

(HD_AUDIO1 de 9 pinos)

(veja a folha 2, No. 26)

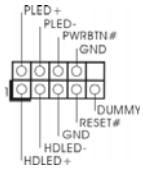


Esta é uma interface para o cabo de áudio no painel frontal, que permite uma conexão e controle convenientes dos dispositivos de áudio.

Português

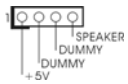
1. Áudio de elevada definição que suporta a sensibilidade da tomada, mas o fio do painel existente no chassis tem de suportar HDA para funcionar correctamente. Siga s instruções que aparecem no manual e no manual do chassis para instalar o sistema.
2. Se utilizar o painel de áudio AC'97, instale-o no 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].

Conector do sistema no painel
(PANEL1 de 9 pinos)
(veja a folha 2, No. 15)



Este conector acomoda diversas funções de sistema no painel frontal.

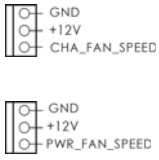
Conector do alto-falante do chassi
(SPEAKER1 de 4 pinos)
(veja a folha 2, No. 14)



Ligue o alto-falante do chassi neste conector.

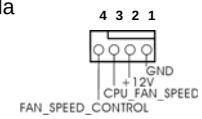
Conector do ventilador do chassis e energia
(CHA_FAN1 de 3 pinos)
(veja a folha 2, No. 13)

(PWR_FAN1 de 3 pinos)
(veja a folha 2, No. 7)



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. 4)



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

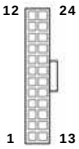
Instalação de Ventoinha de 3 pinos

Português

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)

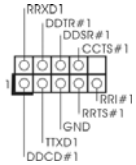
(veja a folha 2, No. 1)

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. 23)



Este conector é usado para suportar um módulo de porta COM.

Conector HDMI_SPDIF

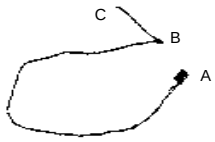
(HDMI_SPDIF1 de 3 pinos)

(veja a folha 2, No. 35)

O conector HDMI_SPDIF, com capacidade para saída de áudio SPDIF para a placa VGA HDMI, permite a ligação ao sistema dos seguintes dispositivos: televisor digital HDMI / projectores / dispositivos com ecrãs LCD. Ligue o conector HDMI_SPDIF da placa VGA HDMI a este conector.

Português

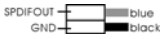
Cabo HDMI_SPDIF
(opcional)



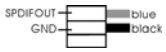
Ligue a extremidade negra (A) do cabo HDMI_SPDIF ao conector HDMI_SPDIF existente na placa principal. De seguida, ligue a extremidade branca (B ou C) do cabo HDMI_SPDIF ao conector HDMI_SPDIF da placa VGA HDMI.

A. Extremidade negra

B. Extremidade branca (2 pinos)



C. Extremidade branca (3 pinos)



2. Informações da BIOS

O Utilitário de Configuração do BIOS está armazenado no chip FWH do BIOS. Ao iniciar o computador, pressione <F2> durante o Autoteste de iniciação (POST) para acessar o Utilitário de Configuração do BIOS; caso contrário, o POST continuará com as rotinas de teste. Se desejar acessar o Utilitário de Configuração do BIOS depois do POST, reinicie o sistema pressionando <Ctl> + <Alt> + <Del>, ou pressionando o botão de reinício no chassi do sistema. Para as informações detalhadas sobre o Utilitário de Configuração do BIOS, consulte o Manual do Usuário (arquivo PDF) no CD de suporte.

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 / 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.

Português

1. 제품소개

ASRock 의 *P43C-ME* 메인 보드를 구매하여 주신것에 대하여 감사 드립니다. 이 메인보드는 엄격한 품질관리 하에 생산되어진 신뢰성 있는 메인보드 입니다. 이 제품은 고 품격 디자인과 함께 ASRock 의 우수한 품질과 최고의 안정성을 자랑하고 있습니다. 이 빠른 설치 안내서에는 마더보드에 대한 설명과 단계별 설치 방법이 실려 있습니다. 마더보드에 대한 보다 자세한 내용은 지원 CD 의 사용 설명서에서 확인할 수 있습니다.

메인보드의 사양이나 바이오스가 업 데이트 되기 때문에 이 사용자 설명서의 내용은 예고 없이 변경되거나 바뀔 수가 있습니다. 만일을 생각해서 이 사용자 설명서의 어떤 변경이 있으면 ASRock 의 웹 사이트에서 언제든지 업 데이트를 하실 수 있습니다. 웹사 이트에서 최신 VGA 카드와 CPU 지원 목록을 확인할 수 있습니다. ASRock 의 웹사이트 주소는 http://www.asrock.com 입니다. 본 머더보드와 관련하여 기술 지원이 필요한 경우 당사 웹 사이트를 방문하여 사용 중인 모델에 대한 특정 정보를 얻으십시오. www.asrock.com/support/index.asp

1.1 패키지 내용

ASRock *P43C-ME* 마더보드
(Micro ATX 폼 팩터: 9.6" X 8.3", 24.4 x 21.1 cm)
ASRock *P43C-ME* 퀵 설치 가이드
ASRock *P43C-ME* 지원 CD
80도체 울트라 ATA 66/100/133 IDE 리본 케이블 1개
시리얼 ATA (SATA) 데이터 케이블 2개 (선택 사양)
I/O 차폐 1 개

한국어

1.2 설명서

플랫폼	- Micro ATX 폼 팩터: 9.6" X 8.3", 24.4 x 21.1 cm
CPU	- Intel® Core™ 2 Extreme용 LGA 775 / Core™ 2 Quad / Core™ 2 Duo / Pentium® Dual Core / Penryn Quad Core Yorkfield 및 Dual Core Wolfdale 프로세서를 지원하는 Celeron® Dual Core / Celeron® - FSB 1600/1333/1066/800 MHz (주의 1 참조 - 하이퍼 - 스레딩 기술 지원 (주의 2 참조) - 언타이드 오버클러킹(Untied Overclocking) 기술 지원 (주의 3 참조) - EM64T CPU 지원
칩셋	- 노스브릿지: Intel® P43 - 사우스 브릿지: Intel® ICH10
메모리	- 듀얼 채널 메모리 기술 지원 (주의 4 참조) - DDR3 DIMM 슬롯 2 개 - DDR3 1600(OC)/1333/1066/800 비 -ECC, 언버퍼드 메모리를지원 (주의 5 참조) - 최대 시스템 메모리 용량: 8GB (주의 6 참조) - DDR2 DIMM 슬롯 2 개 - DDR2 1200(OC)/1066/800/667 비 -ECC, 언버퍼드 메모리를 지원 (주의 5 참조) - 최대 시스템 메모리 용량: 8GB (주의 6 참조)
확장 슬롯	- 1 개의 PCI Express 2.0 x16 슬롯 (x16 모드의 경우 파란색) - 1 개의 PCI Express x1 슬롯 - 2개의 PCI 슬롯
오디오	- 7.1CH HD 오디오 (VIA® VT1718S 오디오 코덱)
랜	- PCIE x1 Gigabit LAN 10/100/1000 Mb/s - Realtek RTL8111DL - 웨이크 - 온 - 랜 지원
후면판 I/O	I/O Panel - 1개 PS/2 마우스 포트 - 1개 PS/2 키보드 포트 - 1개동축 SPDIF 출력 포트 - 1개광학 SPDIF 출력 포트 - 6개디폴트 USB 2.0 포트 - 1개 LED(ACT/LINK LED 및 SPEED LED)가 있는 RJ-45 LAN 포트 - 오디오 잭: 측면 스피커 / 후방 스피커 / 중앙 / 저음 / 라인 인 / 전방 스피커 / 마이크 (주의 7 참조)
온보드 헤더 및 커넥터	- 6개 의 Serial ATAII 3.0Gb/s 커넥터, NCQ, AHCI 및 "핫 플러그" 기 능 지원 (주의 8 참조)

	- ATA133 IDE 커넥터 1 개 (최고 2 개의 IDE 장치 지원) - 플로피 포트 1 개 - 적외선 모듈 헤더 1 개 - 프린트 포트 헤더 1 개 - COM 포트 헤더 1 개 - HDMI_SPDIF 헤더 1 개 - CPU/ 섀시 / 전원 팬 커넥터 - 24 핀 ATX 전원 헤더 - 4 핀 ATX 12V 파워 콘넥터 - 내부 오디오 콘넥터 - 전면부 오디오 콘넥터 - USB 2.0 헤더 2 개 (4 개의 추가 USB 2.0 포트를 지원하는 헤더 2 개) (**주의 9 참조**)
BIOS	- 8Mb AMI BIOS - AMI 에 따른 바이오스 : “플러그 앤 플레이” 지원 - ACPI 1.1 웨이크-업 이벤트와의 호환 - SMBIOS 2.3.1 지원 - CPU, DRAM, GTL, NB, SB, SB 1.1, VTT 전압 멀티 조절 - Smart BIOS 지원
지원 CD	- 드라이버, 유틸리티, 안티 바이러스 소프트웨어(트라이얼 버전), ASRock 소프트웨어 세트(CyberLink DVD 세트 및 크리에이티브 사운드 블라스터 X-Fi MB) (OEM 및 시험판)
특점및 특성	- ASRock OC 튜너 (**주의 10 참조**) - Intelligent Energy Saver (**주의 11 참조**) - Instant Boot - ASRock Instant Flash (**주의 12 참조**) - ASRock OC DNA (**주의 13 참조**) - 하이드브리 부스터: - CPU 주파수의 단계적인 조절 (**주의 14 참조**) - ASRock U-COP (**주의 15 참조**) - B.F.G..(Boot Failure Guard)
하드웨어 모니터	- CPU 온도 감지 - 마더보드 온도 감지 - CPU/ 섀시 / 전원 팬 회전 속도계:샤시(케이스) 팬 회전 속도계 - CPU 소음팬 - 전압 감시 기능 : +12V,+5V,+3.3V,Vcore
OS	- 마이크로 소프트 Windows® 7/7 64 비트 /Vista™/ Vista™ 64 비트 /XP/XP 64 비트 와 호환
인증서	- FCC, CE, WHQL - EuP 지원(EuP 지원 전원 공급기가 요구됨) (**주의 16 참조**)

* 상세한 제품정보는 당사의 웹사이트를 방문할수있습니다. http://www.asrock.com

경고

오버클로킹에는 BIOS 설정을 조정하거나 Untied Overclocking Technology를 적용하거나 타업체의 오버클로킹 도구를 사용하는 것을 포함하여 어느 정도의 위험이 따른다는 것을 유념하십시오. 오버클로킹은 시스템 안정성에 영향을 주거나 심지어 시스템의 구성 요소와 장치에 손상을 입힐지도 모릅니다. 오버클로킹은 사용자 스스로 위험과 비용을 감수하고 해야 합니다. 당사는 오버클로킹에 의해 발생할 수 있는 손상에 대해서 책임이 없습니다.

주의!

1. 이 머더보드는 고유의 FSB1600/1333/1066/800 MHz를 지원합니다. 정상 동작을 위해 점퍼 설정을 조정할 필요가 있습니다. 특수 오버클록킹 모드의 경우 적절한 점퍼 설정에 대해서는 119페이지를 참조하십시오.
2. 하이퍼-스레딩 기술의 셋팅에 대하여는 지원 CD의 사용자 매뉴얼의43 페이지를참고하세요.
3. 이 마더보드는 언타이드 오버클러킹 기술을 지원합니다. 자세한 내용은 24 페이지의 "언타이드 오버클러킹 기술"을 읽으십시오.
4. 이 마더보드는 듀얼 채널 메모리 기술을 지원합니다. 듀얼 채널 메모리 기술을구현하기 전에 올바른 설치를 위하여 14쪽에 있는 메모리 모듈 설치 안내를읽으십시오.
5. 메모리 지원 주파수와 해당 CPU FSB 주파수는 아래 표를 참조하십시오.

CPU FSB 주파수	메모리 지원 주파수
1600	DDR3 800, DDR3 1066, DDR3 1333, DDR3 1600 * DDR2 800, DDR2 1066, DDR2 1200 *
1333	DDR3 800, DDR3 1066, DDR3 1333 DDR2 667, DDR2 800, DDR2 1066, DDR2 1200 *
1066	DDR3 800, DDR3 1066 DDR2 667, DDR2 800, DDR2 1066
800	DDR3 800 DDR2 667, DDR2 800

* DDR3 1600 / DDR2 1200 메모리 모듈은 오버클록킹 모드에서 작동합니다. 이 경우, BIOS 옵션"DRAM Frequency" (DRAM 주파수)를[800MHz DDR3_1600] / [600MHz DDR2_1200]으로 조정하고 점퍼를 조정해야 합니다. 점퍼 설정 방법은 118페이지를 참조하십시오.

6. 운영 체제 한계 때문에 Windows® 7 / Vista™ / XP 에서 시스템 용도로 예약된 실제 메모리 크기는 4 GB 이하일 수 있습니다. 64비트 CPU와 Windows® OS의 경우 그런 한계가 없습니다.
7. 본 마더보드는 마이크 입력에 대해서 스테레오와 모노 모드 둘 다 지원합니다. 본 마더보드는 오디오 출력에 대해서 2 채널, 4 채널, 6 채널 및 8채널 모드를지원합니다. 올바른 연결을 위해 3쪽에 나온 표를확인하십시오.
8. SATAII 하드 디스크를 SATAII 커넥터에 연결하기 전에, 지원 CD의 "User Manual" (사용 설명서) 28페이지에 나와 있는 "SATAII Hard Disk Setup Guide" (SATAII 하드 디스크 설치 설명서) 에 따라 SATAII 하드 디스크 드라이브를 SATAII 모드로 조정하십시오. 또한 SATA 하드 디스크를 SATAII 커넥터에 직접 연결할 수 있습니다.

한국어

9. 마이크로소프트 윈도우 7 64 비트/7/Vista™ 64 비트/Vista™/XP 64 비트/XP SP1; SP2상 에서 USB 2.0의구동을위한 전원 관리 모드가정상적으로.
10. 이것은 사용하기 쉬운ASRock 오버클러킹 툴이며 당신으로하여금, 하드웨어 모니터 기능 으로 당신의 시스템을 감시하며 하드웨어 시설을 오버클러킹함으로서Windows® 환경속에서 가장 우수한 시스템 작업을 실현합니다. 당사의 웹사이트를 방문하여ASRock OC 튜너의 작업 절차를요해할수있습니다.
ASRock 웹사이트: http://www.asrock.com
11. 고급 독점 하드웨어 및 소프트웨어 디자인을 채택한Intelligent Energy Saver 는 타의 추종을 불허하는 절전 효과가 있는 혁신적 기술입니다. 즉, 탁월한 절전 효과를 제공함으로써 컴퓨터 성능을 떨어뜨리지 않고도 전력 효율을 높일 수 있습니다. Intelligent Energy Saver 의 작동 절차에 대한 설명은 당사 웹 사이트를 참조하십시오.
ASRock 웹 사이트: http://www.asrock.com
12. ASRock Instant Flash는 플래시ROM에 내장된 BIOS 유틸리티입니다. 이 편리한 BIOS 업데이트 툴을 사용하면 먼저 MS-DOS나 Windows® 같은 운영체제에 들어가지 않고도 시스템 BIOS를 업데이트할 수있습니다. POST 중에 BIOS 셋업 메뉴에서 <F6> 키를 누르거나 <F2> 키를 누르면 이 유틸리티로 ASRock Instant Flash에 액세스할 수 있습니다.. 이제 이 툴을 시작하여 USB 플래시 드라이브, 플로피 디스크 또는 하드 드라이브에 새 BIOS 파일을 저장하면 플로피 디스켓이나 기타 복잡한 플래시 유틸리티를 추가로 준비하지 않고도 몇 번의 클릭만으로도 BIOS를 업데이트할 수 있습니다. USB 플래시 드라이브 또는 하드 드라이브는 FAT32/16/12 파일 시스템을 사용해야 합니다.
13. 소프트웨어 이름 자체에서 볼 수 있듯이 OC DNA는 문자 그대로 자신의 기능을 잘 드러내고 있습니다. ASRock이 개발한 독보적인 유틸리티인 OC DNA에서 사용자가 매우 편리하게 OC 설정을 기록하고 이를 다른 사용자와 공유할 수있습니다. 이 소프트웨어를 사용하면 운영 체제에 오버클로킹 기록을 저장하여 오버클로킹 설정의 복잡한 기록 과정을 단순화하는 데 도움이 됩니다. 또한 OC DNA를 사용하여 OC 설정을 프로파일로 저장하고 이를 친구와 공유할 수 있습니다! 이 경우 친구는 OC 프로파일을 자신의 시스템에 로드하여 사용자와 동일한 OC 설정을 불러올 수있습니다! 단, OC 프로파일은 동일한 메인보드에서만 공유 및 사용이 가능합니다.
14. 본 마더보드는 직접 조절 기능을 제공하지만, 오버 클러킹을 하는 것은 권장되지 않습니다. 권장하는 CPU 주파수 외에 다른 주파수를 설정 시에는 시스템이 불안정해지거나, 메인보드와 CPU 의 불량이 발생할 수 있으므로 가급적 사용 하지 마십시오.
15. 시스템을 다시 시작하기 전에 메인보드 위의 CPU 팬이 정상적으로 동작 또는 장착되어 있는지 확인하여 주십시오. 고온 방지를 위하여 PC 시스템을 설치할 때 CPU 와 방열판사이에 그리스를 발라 주셔야 합니다.
16. EuP는 Energy Using Product (에너지 사용 제품)의 약어이며 유럽 연합이 완제품 시스템의 전력 소비량을 정의하기 위해 제정한 표준이었습니다. EuP에 따르면, 완제품 시스템의 총 AC 전원은 끄기 모드 상태에서 1.00W 미만이어야 합니다. EuP 표준을 충족하려면 EuP 지원 마더보드 및 EuP 지원 전원공급장치가 필요합니다. 인텔(Intel)의 제안에 따르면 EuP 지원 전원공급장치는 5V 대기 전력 효율이 100 mA 전류 소비 하에서 50%보다 높아야 한다는 기준을 충족해야 합니다. EuP 지원 전원공급장치를 선택하려면 전원공급장치 제조업체에 자세한 사항을 문의하시기 바랍니다.

1.3 점퍼 셋팅

그림은 점퍼를 어떻게 셋업 하는지를 보여줍니다. 점퍼 캡이 핀 위에 있을 때, 점퍼는 "쇼트" 입니다. 점퍼 캡이 핀 위에 없을 때 점퍼는 "오픈" 입니다. 그림은 3 개의 핀 중 1-2 번 핀이 "쇼트" 임을 보여주는 것이며, 점퍼 캡이 이 두 핀 위에 있음을 보여주는 것입니다.

쇼트 오픈

점퍼	세팅	
PS2_USB_PWR1 (2 페이지, 2 번 항목 참조)		PS/2 또는 USB 를 깨어나게 하기 위해서는 2 번과 3 번 핀을 "쇼트" 하여야 합니다.

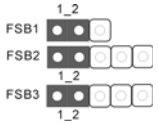
참고: +5VSB 선택할 경우 2 암페어 정도 높은 전류 공급을 요구합니다.

CMOS 초기화
(CLRCMOS1,3 핀 점퍼)
(2 페이지, 32 번 항목 참조)

기본 설정 CMOS 삭제

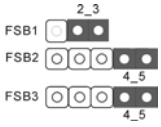
참고: CLRCMOS1은 CMOS의 데이터를 삭제할 수 있게 합니다. CMOS의 데이터는 시스템 암호, 날자, 시간 및 시스템 설정 매개 변수와 같은 시스템 설정 정보를 포함합니다. 시스템 매개 변수를 삭제하고 기본 설정으로 초기화하려면 컴퓨터를 끄고 전원 코드를 뽑은 후 점퍼 캡을 사용하여 CLRCMOS1의 2번과 3번 핀을 5초간 단락시키십시오. CMOS를 초기화 한 뒤, 반드시 점퍼 캡을 제거하여야 합니다. 바이오스 업데이트를마친 후 CMOS를 삭제해야하는 경우 CMOS 삭제 동작 전에 시스템을 먼저부팅했다가 종료해야 합니다.

FSB1 / FSB2 / FSB3 점퍼
(FSB1, 3 핀 점퍼, 2 페이지 No. 33 참조)
(FSB2, 5 핀 점퍼, 2 페이지 No. 33 참조)
(FSB3, 5 핀 점퍼, 2 페이지 No. 33 참조)



기본 설정

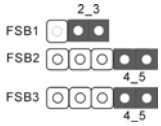
채택한 메모리 모듈을 이 메인보드에서 DDR2 1200 으로 오버클록킹하려면, 점퍼를 조정해야 합니다. FSB1 점퍼용 핀 2 과 핀 3, FSB2 점퍼용 핀 4 와 핀 5, FSB3 점퍼용 핀 4 와 핀 5 를 단락시키십시오. 그러지 않을 경우, 이 메인보드에서 메모리 모듈이 제대로 작동하지 않을 수 있습니다. 아래의 점퍼 설정 방법을 참조하십시오.



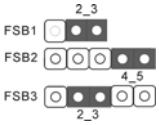
한국어

FSB800 또는 FSB1066 CPU를 탑재할 때, FSB1333 또는 FSB1600(BIOS 설정 별로)으로 오버클록킹하려 할 때 DRAM 주파수가 매우 높게 오버클록킹되는 문제에 직면할 수 있습니다. 점퍼를 사용하여 NB를 더 높은 주파수에서 스트래핑되게 하여 DRAM이 더 낮은 주파수에서 동작할 수 있게 하십시오.

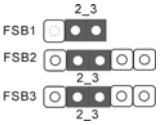
채택한 CPU를 이 메인보드에서 FSB1066으로 오버클록하려는 경우, 점퍼를 조정해야 합니다. FSB1 점퍼용 핀2와 핀3을 단락시키십시오, FSB2 점퍼용 핀4와 핀5을 단락시키십시오, FSB3 점퍼용 핀4와핀5을 단락시키십시오. 그러지 않을 경우, CPU가 이 메인보드에서 제대로 작동하지 않을 수 있습니다. 아래의 점퍼 설정을 참조하십시오.



채택한 CPU를 이 메인보드에서 FSB1333으로 오버클록하려는 경우, 점퍼를 조정해야 합니다. FSB1 점퍼용 핀2와 핀3을 단락시키십시오, FSB2 점퍼용 핀4와 핀5을 단락시키십시오, FSB3 점퍼용 핀2와핀3을 단락시키십시오. 그러지 않을 경우, CPU가 이 메인보드에서 제대로 작동하지 않을 수 있습니다. 아래의 점퍼 설정을 참조하십시오.



채택한 CPU를 이 메인보드에서 FSB1600으로 오버클록하려는 경우, 점퍼를 조정해야 합니다. FSB1 점퍼용 핀2와 핀3을 단락시키십시오, FSB2 점퍼용 핀2와 핀3을 단락시키십시오, FSB3 점퍼용 핀2와핀3을 단락시키십시오. 그러지 않을 경우, CPU가 이 메인보드에서 제대로 작동하지 않을 수 있습니다. 아래의 점퍼 설정을 참조하십시오.



한국어

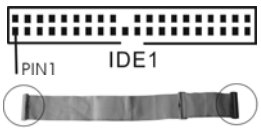
1.4 온보드 헤더 및 커넥터

주의!
이 콘넥터는 점퍼가 아닙니다. 이 콘넥터 위에 점퍼 캡을 사용하지 마세요. 커넥터에 점퍼 캡을 설치하면 마더보드가 영구적으로 손상됩니다!

콘넥터	그림	설명
FDD 콘넥터 (33 핀 FLOPPY1) (2 페이지, 24 번 항목 참조)		 빨간색 줄무늬 쪽을 1번 핀에

참고: 케이블의 빨간색 줄무늬가 있는 쪽을 커넥터의 1번 핀에 맞추어 연결하십시오.

IDE 콘넥터 1 (파란색)
(39 핀 IDE1, 2 페이지, 9 번 항목 참조)



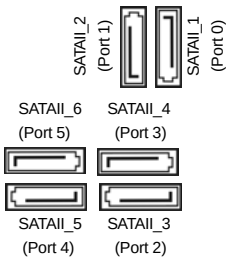
파란색은 메인보드에 연결합니다

검정색은 IDE 디바이스에 연결합니다

80도체 ATA 66/100/133 케이블

참고: 자세한 사항은 IDE 장치 벤더가 제공하는 사용 설명서를참조하십시오.

시리얼 ATAII 커넥터
(SATAII_1 (Port 0):
2 페이지, 11 번 항목 참조)
(SATAII_2 (Port 1):
2 페이지, 10 번 항목 참조)
(SATAII_3 (Port 2):
2 페이지, 17 번 항목 참조)
(SATAII_4 (Port 3):
2 페이지, 16 번 항목 참조)
(SATAII_5 (Port 4):
2 페이지, 18 번 항목 참조)
(SATAII_6 (Port 5):
2 페이지, 19 번 항목 참조)



6 개의 직렬 ATA (SATAII) 커넥터가 내부 저장 장치용 SATA 또는 SATAII HDD 를 지원합니다. 커넥터가 내부기억 장치용 SATAII 케이블을지원합니다. 현재의 SATAII 인터페이스는최고 3.0 Gb/s 의데이터 전송 속 도를지원합니다.

시리얼 ATA(SATA) 데이터 케이블
(선택 사양)

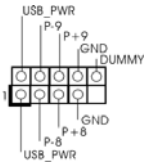
SATA 데이터 케이블의 임의적인 측을 마더보드의 SATA / SATAII 하드 디스크 혹은 SATAII 커넥터에 연결합니다.

한국어

USB 2.0 헤더

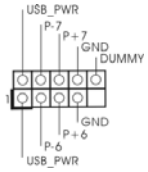
(9 핀 USB8_9)

(2 페이지, 22 번 항목 참조)



(9 핀 USB6_7)

(2 페이지, 20 번 항목 참조)

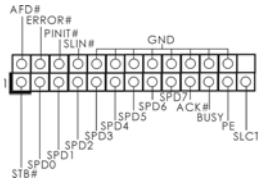


본 머더보드에는 I/O 패널에 있는 6개의 기본 USB 2.0 포트 외에도 USB 2.0 헤더가 2 개 있습니다. 각각의 USB 2.0 헤더는 2개의 USB 2.0 포트를 지원할 수 있습니다.

프린트 포트 헤더

(25 핀 LPT1)

(2 페이지, 31 번 항목 참조)

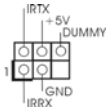


이것은 프린터 장치를 편리하게 연결할 수 있도록 해주는 프린트 포트 케이블용 인터페이스입니다.

적외선 모듈 헤더

(5 핀 IR1)

(2 페이지, 29 번 항목 참조)

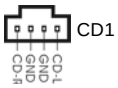


이 헤더는 선택품목인 무선 적외선 송수신 모듈을 지원합니다.

내부 오디오 콘넥터

(4 핀 CD1)

(CD1: 2 페이지, 25 번 항목 참조)

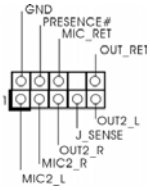


이 콘넥터는 CD-ROM, DVD-ROM, TV 튜너, 또는 MPEG 카드의 사운드 소스로부터 스테레오 입력을 받기 위한 것입니다.

전면부 오디오 콘넥터

(9 핀 HD_AUDIO1)

(2 페이지, 26 번 항목 참조)



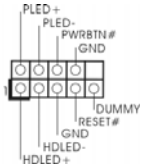
이 콘넥터는 오디오 장치를 편리하게 조절하고 연결할 수 있는 전면 오디오 인터페이스입니다.

한국어

이블의 임의
보드의 SATA /
스크 혹은
에 연결합니다.

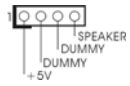
1. High Definition Audio(고음질 오디오)는 잭 센스 기능을 지원하나, 제대로작동하려 면 섀시의 패널 와이어가 HAD를 지원해야 합니다. 이 설명서 및 섀시 설명서의지침 을 따라 시스템을 설치하십시오.
2. AC' 97 오디오 패널을 사용하는 경우, 이를 아래와 같이 프런트 패널 의오디오헤 더에 설치하십시 오.
   A. Mic_IN (MIC)을 MIC2_L 에 연결합니다.
   B. Audio_R (RIN)을 OUT2_R에 연결하고, Audio_L (LIN)을 OUT2_L에 연결합 니다.
   C. Ground (GND)을 Ground (GND) 에 연결합니다.
   D. MIC_RET 및 OUT_RET는 HD 오디오 패널 전용입니다. 이들을 AC' 97 오디오 패널에 연결 하지 않아도 됩니다.
   E. BIOS 설정 유틸리티를 선택합니다. 고급 설정을 선택한 다음, 칩셋 구성을 선택합니다. 프론트 패널 제어를 [자동]에서 [사용]으로 설정합니다.

시스템 콘넥터
(9 핀 PANEL1)
(2 페이지, 15 번 항목 참조)



이 콘넥터는 시스템 전면 패널 기능을 지원하기 위한 것입니다.

섀시 스피커 헤더
(4 핀 SPEAKER 1)
(2 페이지, 14 번 항목 참조)



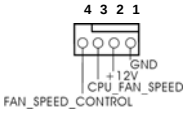
섀시 스피커를 이 헤더에 연결하십시오.

섀시 및 전원 팬 커넥터
(3 핀 CHA_FAN1)
(2 페이지, 13 번 항목 참조)

(3 핀 PWR_FAN1)
(2 페이지, 7 번 항목 참조)

팬 케이블을 팬 커넥터에 연결하고 접지 핀에는 검은색 전선을연결하십시오.

CPU 팬 커넥터
(4 핀 CPU_FAN1)
(2 페이지, 4 번 항목 참조)



CPU 팬 케이블을 이 커넥터에 연결하고 흑색 선을 접지 핀에 맞추십시오.

본 머더보드가 4핀 CPU 팬(저소음 팬) 지원을 제공하기는 하지만 팬 속도 제어 기능없이도 3핀 CPU 팬을 성공적으로 작동할 수 있습니다. 본 머더보드의 CPU 팬 커넥터에 3핀 CPU 팬을 연결하려면 1-3번 핀에 연결하십시오.

1-3 번 핀에 연결됨

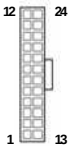
3핀 팬 설치

한국어

ATX 전원 헤더

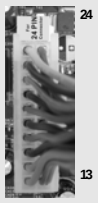
(24 핀 ATXPWR1)

(2 페이지, 8 번 항목 참조)



ATX 전원 공급기를 이 헤더에 연결하십시오.

이 마더보드는 24 핀 ATX 전원 커넥터를 제공하지만, 종래의 20 핀 ATX 전원 공급장치를 사용해도 작동이 가능합니다. 20 핀 ATX 전원 공급장치를 사용하려면, Pin 1 과 Pin 13 으로 전원 공급장치를 연결하십시오.



20 핀 ATX 전원 공급장치 설치

ATX 12V 파워 콘넥터

(4 핀 ATX12V1)

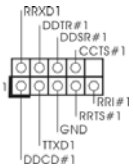
(2 페이지, 1 번 항목 참조)

ATX 12V 플러그가 달린 전원공급장치를 이 커넥터에 연결해야 충분한 전력을 공급할 수 있습니다. 그러지 않을 경우 전원을 켤 수 없습니다.

시리얼포트 컨넥터

(9 핀 COM1)

(2 페이지, 23 번 항목 참조)



이 콘넥터는 시리얼 포트 모듈을 지원합니다.

HDMI_SPDIF 헤더

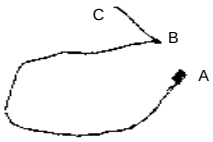
(3 핀 HDMI_SPDIF1)

(2 페이지, 35 번 항목 참조)

HDMI VGA 카드에 SPDIF 오디오 출력을 제공하는 HDMI_SPDIF 헤더는 시스템이 HDMI 디지털 TV/ 프로젝터 /LCD 장치에 연결할 수 있게 합니다. HDMI VGA 카드의 HDMI_SPDIF 커넥터를 이 헤더에 연결하십시오.

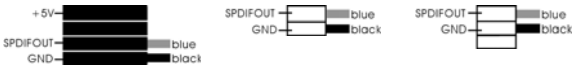
한국어

HDMI_SPDIF 케이블
(선택 사양)



HDMI_SPDIF 케이블의 검은 색 끝(A) 을 마더보드의 HDMI_SPDIF 헤더에 연결하십시오. 그리고나서 HDMI_SPDIF 케이블의 흰색 끝(B또는 C)을 HDMI_SPDIF 에 연결 하십시오. HDMI VGA 카드의커넥터.

A. 검은색 끝 B. 흰색 끝(2 핀) C. 흰색 끝(3 핀)



2. 시스템 바이오스 정보

메인보드의 플래쉬 메모리에는 바이오스 셋업 유틸리티가 저장되어 있습니다. 컴퓨터를 사용하실 때, “자가진단 테스트”(POST) 가 실시되는 동안 <F2>키를 눌러 바이오스 셋업으로 들어가세요; 만일 그렇게 하지 않으면 POST 는 테스트 루틴을 계속하여 실행할 것입니다. 만일 POST 이후 바이오스 셋업을 하기 원하신다면,<Ctl>+<Alt>+<Delete>키를 누르거나, 또는 시스템 본체의 리셋 버튼을 눌러 시스템을 재 시작하여 주시기 바랍니다. 바이오스 셋업 프로그램은 사용하기 편하도록 디자인되어 있습니다. 각 항목은 다양한 서브 메뉴 표가 올라오며 미리 정해진 값 중에서 선택할 수 있도록 되어 있습니다. 바이오스 셋업에 대한 보다 상세한 정보를 원하신다면 보조 CD 안의 포함된 사용자 매뉴얼(PDF 파일)을 따라 주시기 바랍니다.

3. 소프트웨어 지원 CD 정보

이 메인보드는 여러 가지 마이크로소프트 윈도우 운영 체계를 지원합니다 : 7/7 64 비트/Vista™/Vista™ 64 비트/XP/XP 64 비트. 메인보드에 필요한 드라이버와 사용자 편의를 위해 제공되는 보조 CD 는 메인보드 의 기능을 향상시켜 줄 것입니다. 보조 CD 를 사용하여 시작하시려면, CD-ROM 드라이브에 CD 를 넣어주시기 바랍니다. 만일 고객님의 컴퓨터가 “AUTORUN” 이 가능하다면 자동으로 메인 메뉴를 모니터에 디스플레이 시켜 줄 것입니다. 만일 자동으로 메인 메뉴가 나타나지 않는다면, 보조 CD 의 디스플레이 메뉴 안에 있는 BIN 폴더 ASSETUP.EXE 파일을 더블 클릭하여 주시기 바랍니다.
(D: \BIN\ASSETUP.EXE, D:는 CD-ROM 드라이브)

한국어

1. 主板简介

谢谢你采用了华擎 *P43C-ME* 主板，本主板由华擎严格制造，质量可靠，稳定性好，能够获得卓越的性能。本安装指南介绍了安装主板的步骤。更加详细的主板信息可参看驱动光盘的用户手册。

由于主板规格和BIOS软件将不断升级，本手册之相关内容变更恕不另行通知。请留意华擎网站上公布的升级版本。你也可以在华擎网站找到最新的显卡和CPU支持表。
华擎网址：http://www.asrock.com
如果您需要与此主板有关的技术支持，请参观我们的网站以了解您使用机种的规格信息。
www.asrock.com/support/index.asp

1.1 包装盒内物品

华擎 *P43c-ME* 主板
（Micro ATX 规格：9.6 英寸 X 8.3 英寸，24.4 厘米 X 21.1 厘米）
华擎 *P43C-ME* 快速安装指南
华擎 *P43C-ME* 支持光盘
一条80-conductor Ultra ATA 66/100/133 IDE 排线
两条Serial ATA(SATA)数据线(选配)
一块I/O 挡板

1.2 主板规格

架构	– Micro ATX 规格: 9.6 英寸 X 8.3 英寸, 24.4 厘米 X 21.1 厘米
处理器	– LGA 775 支持 Intel® Core™ 2 Extreme / Core™ 2 Quad / Core™ 2 Duo / Pentium® Dual Core / Celeron® Dual Core / Celeron®, 支持 Penryn Quad Core Yorkfield 和 Dual Core Wolfdale 处理器 – FSB 1600/1333/1066/800 MHz (详见警告 1) – 支持 Hyper-Threading 超线程技术 (详见警告 2) – 支持异步超频技术 (详见警告 3) – 支持 EM64T CPU
芯片组	– 北桥: Intel® P43 – 南桥: Intel® ICH10
系统内存	– 支持双通道 DDR3/DDR2 内存技术 (见警告 4) – 配备 2 个 DDR3 DIMM 插槽 – 支持 DDR3 1600(OC)/1333/1066/800 non-ECC、un-buffered 内存 (见警告 5) – 最高支持 8GB 系统容量 (见警告 6) – 配备 2 个 DDR2 DIMM 插槽 – 支持 DDR2 1200(OC)/1066/800/667 non-ECC、un-buffered 内存 (见警告 5) – 最高支持 8GB 系统容量 (见警告 6)
扩展插槽	– 1 x PCI Express 2.0 x16 插槽(蓝色@ x16 模式) – 1 x PCI Express x1 插槽 – 2 x PCI 插槽
音效	– 7.1 声道高保真音频(VIA® VT1718S 音频编解码器)
板载 LAN 功能	– PCIE x1 Gigabit LAN 10/100/1000 Mb/s – Realtek RTL8111DL – 支持网路唤醒 (Wake-On-LAN)
Rear Panel I/O (后面板输入/输出接口)	I/O 界面 – 1 个 PS/2 鼠标接口 – 1 个 PS/2 键盘接口 – 1 个同轴 SPDIF 输出接口 – 1 个光纤 SPDIF 输出接口 – 6 个可直接使用的 USB 2.0 接口 – 1 个 RJ-45 局域网接口与 LED 指示灯(ACT/LINK LED 和 SPEED LED) – 高保真音频插孔: 侧置喇叭 / 后置喇叭 / 中置喇叭 / 低音喇叭 / 音频输入 / 前置喇叭 / 麦克风 (见警告 7)
连接头	– 6 x SATAII 3.0Gb/s 连接头,支持 NCQ, AHCI 和热插拔功能 (详见警告 8)

	- 1 x ATA133 IDE 插座 (最高支持 2 个 IDE 驱动器) - 1 x 软驱接口 - 1 x 红外线模块接头 - 1 x 打印机端口接针 - 1 x 串行接口 - 1 x HDMI_SPDIF 接头 - CPU/ 机箱 / 电源风扇接头 - 24 针 ATX 电源接头 - 4 针 12V 电源接头 - 内置音频接头 - 前置音频面板接头 - 2 x USB 2.0 接口 (可支持 4 个额外的 USB 2.0 接口) (详见**警告 9**)
BIOS	- 8Mb AMI BIOS - 采用 AMI BIOS - 支持即插即用 (Plug and Play,PnP) - ACPI 1.1 电源管理 - 支持唤醒功能 - CPU、DRAM(内存)、GTL、NB(北桥芯片)、SB(南桥芯片)、SB 1.1、VTT 电压多功能调节器 - 支持智能 BIOS
支持光盘	- 驱动程序,工具软件,杀毒软件 (测试版本),华擎软件套装(CyberLink DVD 套件与 Creative Sound Blaster X-Fi MB)(OEM 与试用版)
独家功能	- 华擎超频调节器 (详见**警告 10**) - 智能节能器(Intelligent Energy Saver) (详见**警告 11**) - 即时开机功能 - 华擎 Instant Flash (见**警告 12**) - 华擎 OC DNA (见**警告 13**) - Hybrid Booster(安心超频技术): - 支持 CPU 无级频率调控 (见**警告 14**) - ASRock U-COP (见**警告 15**) - Boot Failure Guard (B.F.G.,启动失败恢复技术)
硬件监控器	- CPU 温度侦测 - 主板温度侦测 - CPU/ 机箱 / 电源风扇转速计 - CPU 静音风扇 - 电压范围: +12V, +5V, +3.3V, 核心电压
操作系统	- Microsoft® Windows® 7/7 64 位元 /Vista™/Vista™ 64 位元 /XP/XP 64 位元适用于此主板
认证	- FCC, CE, WHQL

	– 支持 EuP（需要同时使用支持 EuP 的电源供应器）（见警告 16）

* 请参阅华擎网站了解详细的产品信息：http://www.asrock.com

警告

请了解超频具有不可避免的风险，这些超频包括调节 BIOS 设置、运用异步超频技术或使用第三方超频工具。超频可能会影响您的系统稳定性，甚至会导致系统组件和设备的损坏。这种风险和代价须由您自己承担，我们对超频可能导致的损坏不承担责任。

警告！

1、此主板支持原生 FSB1600/1333/1066/800 MHz。在正常使用时，您不需要调节跳线设置。在特殊超频模式下，请查阅第 131 页了解正确的跳线位置。

2、关于“Hyper-Threading Technology”（超线程技术）的设置，请参考 CD 光盘中的“User Manual”(用户手册，英文版)第 43 页，或是“BIOS 设置程序”第 8 页(中文版)。

3、这款主板支持异步超频技术。请阅读第 24 页的”Untied Overclocking Technology”(自由超频技术)了解详情。

4、这款主板支援双通道内存技术。在您实现双通道内存技术之前，为能正确安装，请确认您已经阅读了第 14 页的内存模组安装指南。

5、请检查下面的表格了解内存支持的频率以及与之相对应的 CPU 前端总线频率。

CPU 前端总线频率	内存支持的频率
1600	DDR3 800, DDR3 1066, DDR3 1333, DDR3 1600 * DDR2 800, DDR2 1066, DDR2 1200 *
1333	DDR3 800, DDR3 1066, DDR3 1333 DDR2 667, DDR2 800, DDR2 1066, DDR2 1200 *
1066	DDR3 800, DDR3 1066 DDR2 667, DDR2 800, DDR2 1066
800	DDR3 800 DDR2 667, DDR2 800

* DDR3 1600 和 DDR2 12000 内存条以超频模式运行。在这种情况下，您需要将 BIOS 选项”DRAM Frequency”调整为[800MHz DDR3_1600]或[600MHz DDR2_1200]并调整跳线。请查阅第 130 页了解正确的跳线位置。

6、由于操作系统的限制，在 Windows® 7 / Vista™ / XP 下，供系统使用的实际内存容量可能小于 4GB。对於 Windows® 操作系统搭配 64 位元 CPU 来说，不会存在这样的限制。

7、在麦克风输入方面，这款主板支持立体声和单声道这两种模式。在音频输出方面，这款主板支持 2 声道、4 声道、6 声道以及 8 声道模式。请查阅第 3 页的表格了解正确的连接方式。

简体中文

8、在将SATAII硬盘连接到SATAII接口之前，请阅读CD光盘中的“User Manual”(用户手册，英文版)第28页的“SATAII Hard Disk Setup Guide”(SATAII硬盘安装指南）调整您的SATAII硬盘驱动器为SATAII模式。您也可以直接将SATA硬盘连接到SATAII接口。

9、USB2.0电源管理在Windows® 7 64位元/7/Vista™ 64位元/Vista™/XP 64位元/XP SP1或SP2系统下可正常工作。

10、这是一款具有友好使用介面的华擎超频工具，让您通过硬件监控功能监控您的系统，帮助您在Windows®环境下对硬件运行超频以获得最佳的系统性能。请访问我们的网站了解华擎超频调节器的使用方法。
华擎网站：http://www.asrock.com

11、智能节能器(Intelligent Energy Saver)采用先进的软硬件专利设计，这项革新技术带来极佳的节能效果。换句话说，它可以在不牺牲性能的前提下，让系统更省电，并提高能源效率。请访问我们的网站了解智能节能器(Intelligent Energy Saver)的使用方法。
华擎网站：http://www.asrock.com

12、华擎Instant Flash是一个内建于Flash ROM的BIOS更新工具程序。这个方便的BIOS更新工具可让您无需进入操作系统(如MS-DOS或Windows®)即可进行BIOS的更新。在系统开机自检过程中按下<F6>键或在BIOS设置菜单中按下<F2>键即可进入华擎Instant Flash工具程序。启动这一程序後，只需把新的BIOS文件保存在U盘、软盘或硬盘中，轻松点击鼠标就能完成BIOS的更新，而不再需要准备额外的软盘或其他复杂的更新程序。请注意：U盘或硬盘必须使用FAT32/64文件系统。

13、软件的名字本身-OC DNA已经向您透露了它的用途。OC DNA是华擎独家研发的创新工具程序，它为用户提供一种记录超频设置并与他人分享的简单方法。这个好用的工具程序可帮助您在操作系统中保存超频记录，大大简化了超频设置的记录过程。有了OC DNA，您可以将超频设置保存为一个设置文件并与朋友分享！请注意：超频设置文件只能在相同的主板上分享和使用。

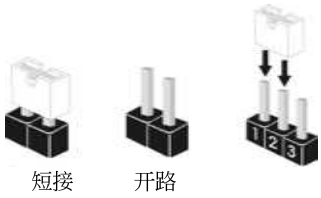
14、尽管本主板提供无级频率调控，但不推荐用户超频使用。不同于标准CPU总线频率的非标准频率可能会使系统不稳定，甚至会损害CPU和主板。

15、当检测到CPU 过热问题时，系统会自动关机。在您重新启动系统之前，请检查主板上的CPU风扇是否正常运转并拔出电源线，然后再将它插回。为了提高散热性，在安装PC系统时请在CPU和散热器之间涂一层导热胶。

16、EuP，全称Energy Using Product(能耗产品)，是欧盟用来定义完整系统耗电量的规定。根据EuP的规定，一个完整系统在关机模式下的交流电总消耗必须在1.00W以下。为满足EuP标准，您需要同时具备支持EuP的主板和支持EuP的电源供应器。根据Intel®的建议，支持EuP的电源供应器必须满足在100mA电流消耗时，5Vsb电源效率高于50%。有关支持EuP的电源供应器选择方面的更多细节，我们建议您谘询电源供应器的制作商。

1.3 跳线设置

插图所示的就是设置跳线的方法。当跳线帽放置在针脚上时，这个跳线就是“短接”。如果针脚上没有放置跳线帽，这个跳线就是“开路”。插图显示了一个 3 针脚的跳线，当跳线帽放置在针脚 1 和针脚 2 之间时就是“短接”。



短接　　开路

接脚	设定	说明
PS2_USB_PWR1 (见第 2 页第 2 项)		短接 pin2 和 pin3，就可以设置 +5VSB(待机)，使 PS/2 或 USB 能唤醒系统。

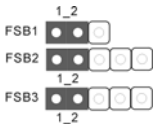
注意： 选择 +5VSB，电源必须能提供 +2 AMP 或更高的待机电流。

清除 CMOS
(CLRCMOS1，3 针脚跳线)
(见第 2 页第 32 项)

默认设置　　清除 CMOS

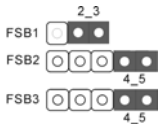
注意：CLRCMOS1 允许您清除 CMOS 里的资料。在 CMOS 里的资料包括系统设置资讯，例如系统密码，日期，时间及系统设置参数。为了清除并重置系统参数到默认设置，请关闭电脑并拔掉电源线，然後用跳线帽短接 CLRCMOS1 上的 pin2 和 pin3 五秒钟。如果您需要再完成 BIOS 刷新时清除 CMOS，您必须首先启动系统，然後在您进行 CMOS 清除操作之前关闭系统。

FSB1/FSB2/FSB3 跳线
(FSB1，3 针跳线，见第 2 页第 33 项)
(FSB2，5 针跳线，见第 2 页第 33 项)
(FSB3，5 针跳线，见第 2 页第 33 项)



默认

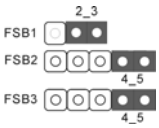
如果您想在这款主板上将内存条超频至 DDR2 1200，请短接 pin2、pin3 支持 FSB1，pin4、pin5 支持 FSB2，和 pin4、pin5 支持 FSB3。否则，主板上将内存条可能无法正常工作。请查阅下面的跳线设置。



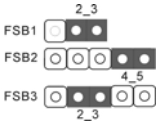
简体中文

当您安装FSB800或FSB1066 CPU,并试图超频至FSB1333或FSB1600(通过BIOS设置),您可能会遇到这样的问题:内存频率将被超频道更高。请使用跳线将北桥强行绑定为更高频率,这样内存就能以更低频率运行。

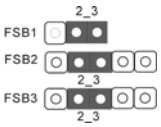
如果您想在这款主板上将CPU超频至FSB1066,请短接pin2、pin3支持FSB1,pin4、pin5支持FSB2,和pin4、pin5支持FSB3。否则,这款主板上的CPU可能无法正常工作。请查阅下面的跳线设置。



如果您想在这款主板上将CPU超频至FSB1333,请短接pin2、pin3支持FSB1,pin4、pin5支持FSB2,和pin2、pin3支持FSB3。否则,这款主板上的CPU可能无法正常工作。请查阅下面的跳线设置。



如果您想在这款主板上将CPU超频至FSB1600,请短接pin2、pin3支持FSB1,pin2、pin3支持FSB2,和pin2、pin3支持FSB3。否则,这款主板上的CPU可能无法正常工作。请查阅下面的跳线设置。



1.4 板载接头和接口

板载接头和接口不是跳线。切勿将跳线帽放置在这些接头和接口上。将跳线帽放置在接头和接口上将会导致主板的永久性损坏!

软驱接头
(33针 FLOPPY1)
(见第2页第24项)

将标示红色斑纹的一边插入第1针脚(Pin1)

注意： 请确保数据线标红色斑纹的一边插入连接器第1针脚(Pin1)的位置。

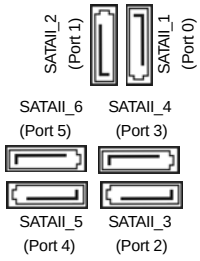
主IDE连接头(蓝色)
(39针 IDE1，见第2页第9项)

蓝色端接到主板上  黑色端接到硬盘驱动器上

80针的ATA 66/100/133排线

注意： 请查阅您的IDE驱动器供应商提供的说明书了解详细资料。

Serial ATAII 接口
(SATAII_1:(Port 0) 见第2页第11项)
(SATAII_2:(Port 1) 见第2页第10项)
(SATAII_3:(Port 2) 见第2页第17项)
(SATAII_4:(Port 3) 见第2页第16项)
(SATAII_5:(Port 4) 见第2页第18项)
(SATAII_6:(Port 5) 见第2页第19项)



这里有六组Serial ATAII (SATAII)接口支持Serial (SATA)数据线作为内部储存设置。目前SATAII界面理论上可提供高达3.0Gb/s的数据传输速率。

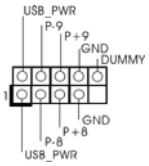
Serial ATA (SATA)
数据线
(选配)

SATA数据线的任意一端均可连接SATA/SATAII硬盘或者主板上的SATAII接口。

USB 2.0 扩展接头

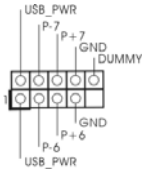
(9针 USB8_9)

(见第2页第22项)



(9针 USB6_7)

(见第2页第20项)

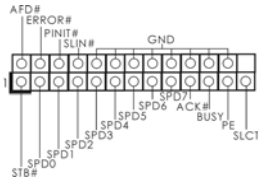


除了位於I/O面板的六个默认USB 2.0接口之外，这款主板有两组USB 2.0接针。这组USB 2.0接针可以支持两个USB 2.0接口。

打印机端口接针

(25针 LPT1)

(见第2页第31项)

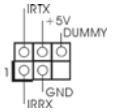


这是一个连接打印机端口的接口，方便您连接打印机设备。

红外线模块接头

(5针 IR1)

(见第2页第29项)

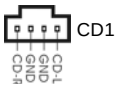


这个接头支持一个选配的无线发送和接受红外线的模块。

内置的音频接头

(4针 CD1)

(见第2页第25项)

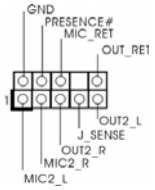


可以通过CD-ROM, DVD-ROM, TV 调谐器或MPEG卡接收音频输入。

前置音频面板接头

(9针 HD_AUDIO1)

(见第2页第26项)



可以方便连接音频设备。

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1. 高保真音频(High Definition Audio, HDA)支持智能音频接口检测功能(Jack Sensing),但是机箱面板的连线必须支持HDA才能正常使用。请按我们提供的手册和机箱手册上的使用说明安装您的系统。
2. 如果您使用AC'97音频面板,请按照下面的步骤将它安装到前面板音频接针:
   A. 将Mic_IN(MIC)连接到MIC2_L。
   B. 将Audio_R(RIN)连接到OUT2_R,将Audio_L(LIN)连接到OUT2_L。
   C. 将Ground(GND)连接到Ground(GND)。

简体中文

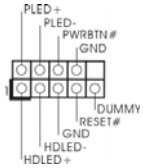
D. MIC_RET 和 OUT_RET 仅用于 HD 音频面板。您不必将它们连接到 AC’97 音频面板。

E. 进入 BIOS 设置程序。进入 Advanced Settings(高级设置)并选择 Chipset Configuration(芯片组配置)。将 Front Panel Control(前面板控制)选项由 Auto(自动)设置为 Enabled(启用)。

系统面板接头

(9 针 PANEL1)

(见第 2 页第 15 项)

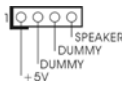


这个接头提供数个系统前面板功能。

机箱喇叭接头

(4 针 SPEAKER1)

(见第 2 页第 14 项)



请将机箱喇叭连接到这个接头。

机箱，电源风扇接头

(3 针 CHA_FAN1)

(见第 2 页第 13 项)

请将风扇连接线接到这个接头，并让黑线与接地的针脚相接。

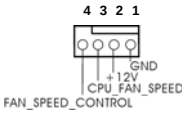
(3 针 PWR_FAN1)

(见第 2 页第 7 项)

CPU 风扇接头

(4 针 CPU_FAN1)

(见第 2 页第 4 项)



请将 CPU 风扇连接线接到这个接头，并让黑线与接地的针脚相接。

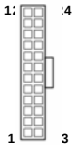
虽然此主板支持 4-Pin CPU 风扇(Quiet Fan,静音风扇),但是没有调速功能的 3-Pin CPU 风扇仍然可以在此主板上正常运行。如果您打算将 3-Pin CPU 风扇连接到此主板的 CPU 风扇接口,请将它连接到 Pin 1-3。

Pin 1-3 连接
3-Pin 风扇的安装

ATX 电源接头

(24 针 ATXPWR1)

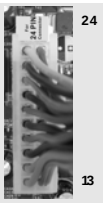
(见第 2 页第 8 项)



请将 ATX 电源供应器连接到这个接头。

简体中文

虽然此主板提供 24-pin ATX 电源接口，但是您仍然可以使用传统的 20-pin ATX 电源。为了使用 20-pin ATX 电源，请顺著 Pin 1 和 Pin 3 插上电源接头。

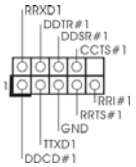


20-Pin ATX 电源安装说明

ATX 12V 接头
(4针 ATX12V1)
(见第2页第1项)

请将一个 ATX 12V 电源供应器接到这个接头。

串行接口连接器
(9针 COM1)
(见第2页第23项)

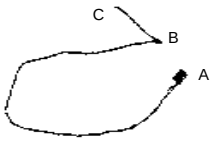


这个 COM1 端口支持一个串行接口的外设。

HDMI_SPDIF 接头
(3针 HDMI_SPDIF1)
(见第2页第35项)

HDMI_SPDIF 接头，提供 SPDIF 音频输出至 HDMI 显卡，支持将电脑连接至带 HDMI 的数字电视／投影仪／液晶显示器等设备。请将 HDMI 显卡的 HDMI_SPDIF 接口连接到这个接头。

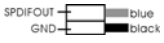
HDMI_SPDIF 传输线
(选配)



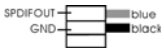
请将 HDMI_SPDIF 传输线的黑色接头(A)连接至主板的 HDMI_SPDIF 接针。然后将 HDMI_SPDIF 传输线的白色接头(B 或 C)连接至 HDMI 显卡的 HDMI_SPDIF 接口。

A. 黑色接头

B. 白色接头(2-pin)



C. 白色接头(3-pin)



简体中文

2. BIOS信息

主板上的Flash Memory存储了BIOS设置程序。请再启动电脑进行开机自检(POST)时按下<F2>键进入BIOS设置程序；此外，你也可以让开机自检(POST)进行常规检验。如果你需要在开机自检(POST)之后进入BIOS设置程序，请按下<Ctrl>+<Alt>+<Delete>键重新启动电脑，或者按下系统面板上的重启按钮。有关BIOS设置的详细信息，请查阅随机支持光盘里的用户手册(PDF文件)。

3. 支持光盘信息

本主板支持各种微软视窗操作系统：Microsoft® Windows® 7/7 64位元/Vista™/Vista™ 64位元/XP/XP 64位元。主板随机支持光盘包含各种有助于提高主板效能的必要驱动和实用程序。请将随机支持光盘放入光驱里，如果电脑的“自动运行”功能已启用，屏幕将会自动显示主菜单。如果主菜单不能自动显示，请查找支持光盘内BIN文件夹下的“ASSETUP.EXE”，并双击它，即可调出主菜单。

电子信息产品污染控制标示

依据中国发布的「电子信息产品污染控制管理办法」及SJ/T 11364-2006「电子信息产品污染控制标示要求」，电子信息产品应进行标示，藉以向消费者揭露产品中含有的有毒有害物质或元素不致发生外泄或突变从而对环境造成污染或对人身、财产造成严重损害的期限。依上述规定，您可于本产品之印刷电路板上看见图一之标示。图一中之数字为产品之环保使用期限。由此可知此主板之环保使用期限为10年。

图一

有毒有害物质或元素的名称及含量说明

若您欲了解此产品的有毒有害物质或元素的名称及含量说明，请参照以下表格及说明。

部件名称	有害物质或元素					
	铅(Pb)	镉(Cd)	汞(Hg)	六价铬(Cr(VI))	多溴联苯(PBB)	多溴二苯醚(PBDE)
印刷电路板及其电子组件	X	O	O	O	O	O
外部信号连接头及线材	X	O	O	O	O	O

O: 表示该有毒有害物质在该部件所有均质材料中的含量均在SJ/T 11363-2006标准规定的限量要求以下。

X: 表示该有毒有害物质至少在该部件的某一均质材料中的含量超出SJ/T 11363-2006标准规定的限量要求，然该部件仍符合欧盟指令2002/95/EC的规范。

备注： 此产品所标示之环保使用年限，系指在一般正常使用状况下。