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

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

## CALIFORNIA, USA ONLY

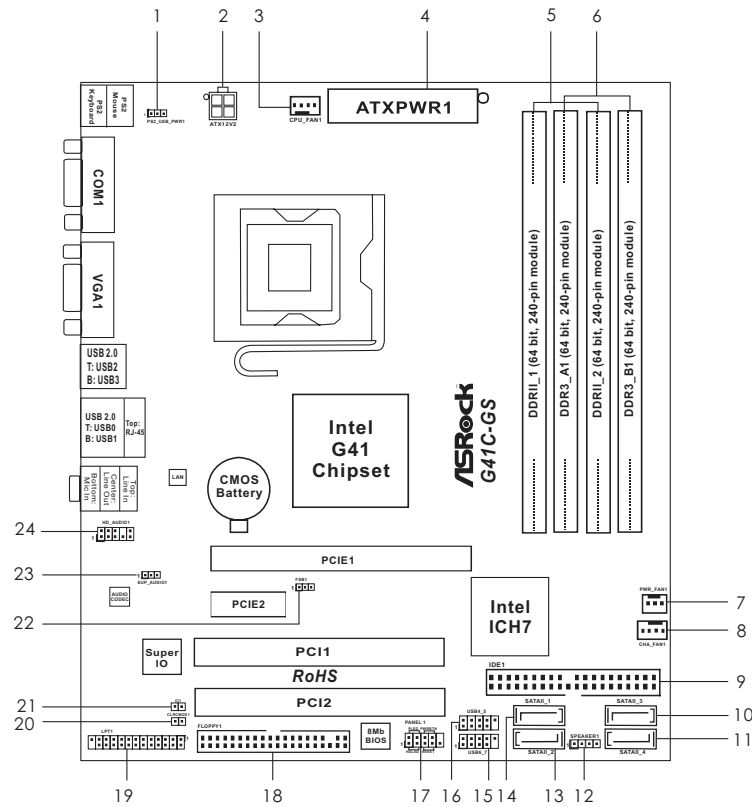
The Lithium battery adopted on this motherboard contains Perchlorate, a toxic substance controlled in Perchlorate Best Management Practices (BMP) regulations passed by the California Legislature. When you discard the Lithium battery in California, USA, please follow the related regulations in advance.

"Perchlorate Material-special handling may apply, see [www.dtsc.ca.gov/hazardouswaste/perchlorate](http://www.dtsc.ca.gov/hazardouswaste/perchlorate)"

**ASRock Website:** <http://www.asrock.com>

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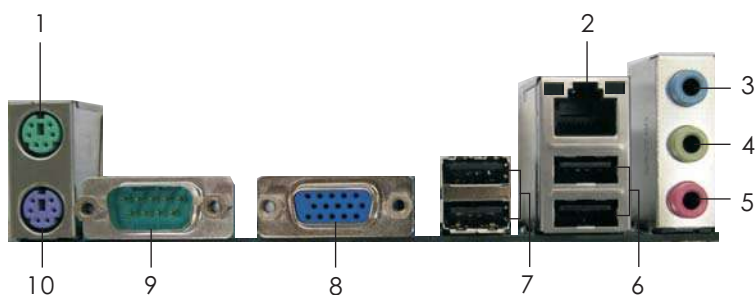
## Motherboard Layout



- |    |  |    |  |
|----|--|----|--|
| 1  | PS2_USB_PWR1 Jumper  | 13 | Secondary SATAII Connector (SATAII_2; Red) |
| 2  | ATX 12V Connector (ATX12V2)  | 14 | Primary SATAII Connector (SATAII_1; Red)   |
| 3  | CPU Fan Connector (CPU_FAN1)   | 15 | USB 2.0 Header (USB6_7, Blue)              |
| 4  | ATX Power Connector (ATXPWR1)  | 16 | USB 2.0 Header (USB4_5, Blue)              |
| 5  | 2 x 240-pin DDR2 DIMM Slots (Dual Channel: DDRII_1, DDRII_2; Yellow) | 17 | System Panel Header (PANEL1, Orange)       |
| 6  | 2 x 240-pin DDR3 DIMM Slots (Dual Channel: DDR3_A1, DDR3_B1; Blue)   | 18 | Floppy Connector (FLOPPY1)                 |
| 7  | Power Fan Connector (PWR_FAN1)                                       | 19 | Print Port Header (LPT1, Purple)           |
| 8  | Chassis Fan Connector (CHA_FAN1)                                     | 20 | Clear CMOS Jumper (CLR_CMOS1)              |
| 9  | IDE1 Connector (IDE1, Blue)  | 21 | Chassis Intrusion Header (CI1)             |
| 10 | Third SATAII Connector (SATAII_3; Red)                               | 22 | FSB1 Jumper                                |
| 11 | Fourth SATAII Connector (SATAII_4; Red)                              | 23 | EUP Audio Jumper (EUP_AUDIO1)              |
| 12 | Chassis Speaker Header (SPEAKER1, Purple)                            | 24 | Front Panel Audio Header (HD_AUDIO1, Lime) |

English

## I/O Panel



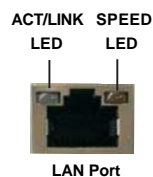
- |                           |                                |
|---------------------------|--------------------------------|
| 1 PS/2 Mouse Port (Green) | 6 USB 2.0 Ports (USB01)        |
| 2 RJ-45 Port*             | 7 USB 2.0 Ports (USB23)        |
| 3 Line In (Light Blue)    | 8 VGA Port                     |
| 4 Line Out (Lime)         | 9 COM Port                     |
| 5 Microphone (Pink)       | 10 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 Activity
Blinking	Data Activity

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



To enable Multi-Streaming function, you need to connect a front panel audio cable to the front panel audio header. Please refer to below steps for the software setting of Multi-Streaming.

#### For Windows® XP:

After restarting your computer, you will find "Mixer" tool on your system. Please select "Mixer ToolBox" , click "Enable playback multi-streaming", and click "ok". Choose "2CH" or

"4CH" and then you are allowed to select "Realtek HDA Primary output" to use Rear Speaker and Front Speaker, or select "Realtek HDA Audio 2nd output" to use front panel audio. Then reboot your system.

#### For Windows® 7 / Vista™:

After restarting your computer, please double-click "Realtek HD Audio Manager" on the system tray. Set "Speaker Configuration" to "Quadraphonic" or "Stereo". Click "Device advanced settings", choose "Make front and rear output devices playbacks two different audio streams simultaneously", and click "ok". Then reboot your system.

English



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## 1. Introduction

Thank you for purchasing ASRock **G41C-GS R2.0** 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](http://www.asrock.com/support/index.asp)

### 1.1 Package Contents

ASRock **G41C-GS R2.0** Motherboard (Micro ATX Form Factor)  
ASRock **G41C-GS R2.0** Quick Installation Guide  
ASRock **G41C-GS R2.0** Support CD  
Two Serial ATA (SATA) Data Cables (Optional)  
One I/O Panel Shield



## 1.2 Specifications

<b>Platform</b>	<ul style="list-style-type: none"><li>- Micro ATX Form Factor</li><li>- Solid Capacitor for CPU power</li></ul>
<b>CPU</b>	<ul style="list-style-type: none"><li>- 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</li><li>- Supports FSB1333/1066/800/533 MHz</li><li>- Supports Hyper-Threading Technology</li><li>- Supports Untied Overclocking Technology</li><li>- Supports EM64T CPU</li></ul>
<b>Chipset</b>	<ul style="list-style-type: none"><li>- Northbridge: Intel® G41</li><li>- Southbridge: Intel® ICH7</li></ul>
<b>Memory</b>	<ul style="list-style-type: none"><li>- Dual Channel DDR3/DDR2 Memory Technology</li><li>- 2 x DDR3 DIMM Slots</li><li>- Supports DDR3 1333(OC)/1066/800 non-ECC, un-buffered memory (see <b>CAUTION 1</b>)</li><li>- Max. capacity of system memory: 8GB (see <b>CAUTION 2</b>)</li><li>- 2 x DDR2 DIMM Slots</li><li>- Supports DDR2 800/667/533 non-ECC, un-buffered memory (see <b>CAUTION 1</b>)</li><li>- Max. capacity of system memory: 8GB (see <b>CAUTION 2</b>)</li></ul>
<b>Expansion Slot</b>	<ul style="list-style-type: none"><li>- 1 x PCI Express x16 Slot</li><li>- 1 x PCI Express x1 Slot</li><li>- 2 x PCI Slots</li></ul>
<b>Graphics</b>	<ul style="list-style-type: none"><li>- Intel® Graphics Media Accelerator X4500</li><li>- Pixel Shader 4.0, DirectX 10</li><li>- Max. shared memory 1759MB</li><li>- Supports D-Sub with max. resolution up to 2048x1536 @ 75Hz</li></ul>
<b>Audio</b>	<ul style="list-style-type: none"><li>- 5.1 CH HD Audio (Realtek ALC662 Audio Codec)</li><li>- Supports Surge Protection (ASRock Full Spike Protection)</li></ul>
<b>LAN</b>	<ul style="list-style-type: none"><li>- PCIE x1 Gigabit LAN 10/100/1000 Mb/s</li><li>- Realtek RTL8111GR</li><li>- Supports Wake-On-WAN</li><li>- Supports Wake-On-LAN</li><li>- Supports Lightning/ESD Protection (ASRock Full Spike Protection)</li><li>- Supports LAN Cable Detection</li><li>- Supports Energy Efficient Ethernet 802.3az</li></ul>

	- Supports PXE
<b>Rear Panel I/O</b>	<ul style="list-style-type: none"> <li>- 1 x PS/2 Mouse Port</li> <li>- 1 x PS/2 Keyboard Port</li> <li>- 1 x Serial Port: COM1</li> <li>- 1 x VGA Port</li> <li>- 4 x USB 2.0 Ports (Supports ESD Protection (ASRock Full Spike Protection))</li> <li>- 1 x RJ-45 LAN Port with LED (ACT/LINK LED and SPEED LED)</li> <li>- HD Audio Jacks: Line in / Front Speaker / Microphone</li> </ul>
<b>Storage</b>	- 4 x SATA2 3.0 Gb/s Connectors (No support for RAID and Hot Plug)
<b>Connector</b>	<ul style="list-style-type: none"> <li>- 1 x ATA100 IDE Connector (Supports 2 x IDE devices)</li> <li>- 1 x Floppy Connector</li> <li>- 1 x Print Port Header</li> <li>- 1 x Chassis Intrusion Header</li> <li>- 1 x CPU Fan Connector (4-pin)</li> <li>- 1 x Chassis Fan Connector (4-pin)</li> <li>- 1 x Power Fan Connector (3-pin)</li> <li>- 1 x 24 pin ATX Power Connector</li> <li>- 1 x 4 pin 12V Power Connector</li> <li>- 1 x Front Panel Audio Connector</li> <li>- 2 x USB 2.0 Headers (Support 4 USB 2.0 ports) (Supports ESD Protection (ASRock Full Spike Protection))</li> </ul>
<b>BIOS Feature</b>	<ul style="list-style-type: none"> <li>- 8Mb AMI Legal BIOS</li> <li>- Supports Plug and Play</li> <li>- ACPI 1.1 compliant wake up events</li> <li>- Supports jumperfree</li> <li>- VCCM, NB, VTT, GTLRef Voltage multi-adjustment</li> <li>- Supports Smart BIOS</li> </ul>
<b>Support CD</b>	- Drivers, Utilities, AntiVirus Software (Trial Version), Google Chrome Browser and Toolbar, Start8 (30 days trial)
<b>Hardware Monitor</b>	<ul style="list-style-type: none"> <li>- CPU temperature sensing</li> <li>- Chassis temperature sensing</li> <li>- CPU/Chassis/Power Fan Tachometer</li> <li>- CPU Quiet Fan</li> <li>- CASE OPEN detection</li> <li>- Voltage monitoring: +12V, +5V, +3.3V, CPU Vcore</li> </ul>
<b>OS</b>	- Microsoft® Windows® 7 / 7 64-bit / Vista™ / Vista™ 64-bit / XP / XP 64-bit
<b>Certifications</b>	<ul style="list-style-type: none"> <li>- FCC, CE</li> <li>- ErP/EuP ready (ErP/EuP ready power supply is required)</li> </ul>

\* 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. Please check the table below for the CPU FSB frequency and its corresponding memory support frequency.

CPU FSB Frequency	Memory Support Frequency
1333	DDR3 800, DDR3 1066, DDR3 1333 DDR2 667, DDR2 800
1066	DDR3 800, DDR3 1066 DDR2 667, DDR2 800
800	DDR3 800 DDR2 667, DDR2 800
533	DDR3 800 DDR2 533

\* DDR3 1333 memory modules will operate in overclocking mode.

\* When you use a FSB533-CPU on this motherboard, it will run at DDR3 533 if you adopt a DDR3 800 memory module.

\* If you adopt FSB1333-CPU and DDR3 1333 memory module on this motherboard, you need to adjust the jumper. Please refer to page 9 for proper jumper settings.

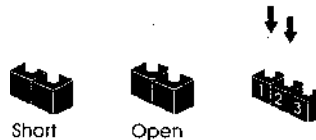
2. Due to the operating system limitation, the actual memory size may be less than 4GB for the reservation for system usage under Windows® 7 / Vista™ / XP. For Windows® OS with 64-bit CPU, there is no such limitation. In order to maximize the system memory, please install 4GB memory module with 16 cells or 2GB memory modules with at least 8 cells.





### 1.3 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. 1)	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>1_2</p>  <p>+5V</p> </div> <div style="text-align: center;"> <p>2_3</p>  <p>+5VSB</p> </div> </div>	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  
(CLRCMOS1, 2-pin jumper)  
(see p.2 No. 20)



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 2 pins on CLRCMOS1 for 5 seconds.

EUP Audio Jumper  
(EUP\_AUDIO1, 3-pin jumper)  
(see p.2 No. 23)



Note: EUP\_AUDIO jumper design decreases the power consumption of this motherboard to meet EuP standard. With an ASRock EuP ready motherboard and a power supply that the 5VSB power efficiency is higher than 50% under 100mA current consumption, your system is able to submit EuP standard. The default setting (short pin1 and pin2) is EuP enabled. If you want to disable this power saving function, you may short pin2 and pin3.



English





### FSB1 Jumper

(FSB1, 3-pin jumper, see p.2 No. 22)

FSB1  Default

If you adopt FSB1333-CPU and DDR3 1333 memory module on this motherboard, you need to adjust the jumper. Please short pin2, pin3 for FSB1 jumper. Otherwise, the CPU and memory module may not work properly on this motherboard. Please refer to below jumper setting.

FSB1 

## 1.4 Onboard Headers and Connectors



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

### Floppy Connector

(33-pin FLOPPY1)

(see p.2 No. 18)



↑  
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 cable

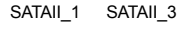
Note: Please refer to the instruction of your IDE device vendor for the details.

### Serial ATAII Connectors

(SATAII\_1: see p.2, No. 14)



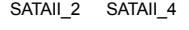
(SATAII\_2: see p.2, No. 13)



(SATAII\_3: see p.2, No. 10)



(SATAII\_4: see p.2, No. 11)



These four Serial ATAII (SATAII)

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

English

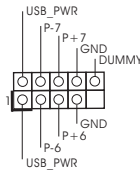


Serial ATA (SATA)  
Data Cable  
(Optional)



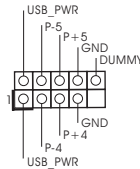
Either end of the SATA data cable can be connected to the SATA / SATAII hard disk or the SATAII connector on the motherboard.

USB 2.0 Headers  
(9-pin USB6\_7)  
(see p.2 No. 15)

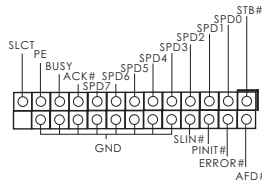


Besides four default USB 2.0 ports on the I/O panel, there are two USB 2.0 headers on this motherboard. Each USB 2.0 header can support two USB 2.0 ports.

(9-pin USB4\_5)  
(see p.2 No. 16)

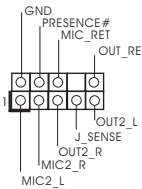


Print Port Header  
(25-pin LPT1)  
(see p.2 No. 19)



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

Front Panel Audio Header  
(9-pin HD\_AUDIO1)  
(see p.2 No. 24)



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

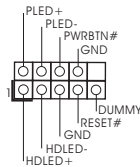


1. High Definition Audio supports Jack Sensing, but the panel wire on the chassis must support HDA to function correctly. Please follow the instruction in our manual and chassis manual to install your system.
2. If you use AC'97 audio panel, please install it to the front panel audio header as below: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

English

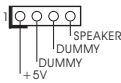


**System Panel Header**  
 (9-pin PANEL1)  
 (see p.2 No. 17)



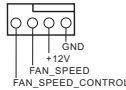
This header accommodates several system front panel functions.

**Chassis Speaker Header**  
 (4-pin SPEAKER 1)  
 (see p.2 No. 12)



Please connect the chassis speaker to this header.

**Chassis and Power Fan Connectors**  
 (4-pin CHA\_FAN1)  
 (see p.2 No. 8)

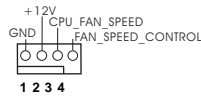


Please connect the fan cables to the fan connectors and match the black wire to the ground pin.

(3-pin PWR\_FAN1)  
 (see p.2 No. 7)



**CPU Fan Connector**  
 (4-pin CPU\_FAN1)  
 (see p.2 No. 3)

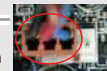


Please connect a CPU fan cable to this connector and match the black wire to the ground pin.

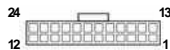


Though this motherboard provides 4-Pin CPU fan (Quiet Fan) support, the 3-Pin CPU fan still can work successfully even without the fan speed control function. If you plan to connect the 3-Pin CPU fan to the CPU fan connector on this motherboard, please connect it to Pin 1-3.

Pin 1-3 Connected ←  
 3-Pin Fan Installation



**ATX Power Connector**  
 (24-pin ATXPWR1)  
 (see p.2 No. 4)



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



English



**ATX 12V Connector**  
 (4-pin ATX12V2)  
 (see p.2 No. 2)



Please note that it is necessary to connect a power supply with ATX 12V plug to this connector so that it can provides sufficient power. Failing to do so will cause the failure to power up.

**Chassis Intrusion Header**  
 (2-pin C11)  
 (see p.2 No. 21)



This motherboard supports CASE OPEN detection feature that detects if the chassis cover has been removed. This feature requires a chassis with chassis intrusion detection design.

## 2. 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.

## 3. 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 "ASRSETUP.EXE" from the BIN folder in the Support CD to display the menus.

English



## Spezifikationen

<b>Plattform</b>	<ul style="list-style-type: none"> <li>- MicroATX-Formfaktor</li> <li>- Festkondensator für CPU-Leistung</li> </ul>
<b>CPU</b>	<ul style="list-style-type: none"> <li>- 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</li> <li>- FSB1333/1066/800/533 MHz</li> <li>- Unterstützt Hyper-Threading-Technologie</li> <li>- Unterstützt Untied-Übertaktungstechnologie</li> <li>- Unterstützt EM64T-CPU</li> </ul>
<b>Chipsatz</b>	<ul style="list-style-type: none"> <li>- Northbridge: Intel® G41</li> <li>- Southbridge: Intel® ICH7</li> </ul>
<b>Speicher</b>	<ul style="list-style-type: none"> <li>- Unterstützung von Dual-Kanal-Speichertechnologie</li> <li>- 2 x Steckplätze für DDR3</li> <li>- Unterstützt DDR3 1333(OC)/1066/800 non-ECC, ungepufferter Speicher</li> <li>- Max. Kapazität des Systemspeichers: 8GB</li> <li>- 2 x Steckplätze für DDR2</li> <li>- Unterstützt DDR2 800/667/533 non-ECC, ungepufferter Speicher</li> <li>- Max. Kapazität des Systemspeichers: 8GB</li> </ul>
<b>Erweiterungssteckplätze</b>	<ul style="list-style-type: none"> <li>- 1 x PCI Express x16-Steckplätze</li> <li>- 1 x PCI Express x1-Steckplätze</li> <li>- 2 x PCI -Steckplätze</li> </ul>
<b>Onboard-VGA</b>	<ul style="list-style-type: none"> <li>- Intel® Graphics Media Accelerator X4500</li> <li>- Pixel Shader 4.0, DX10 VGA</li> <li>- Maximal gemeinsam genutzter Speicher 1759MB</li> <li>- Unterstützt D-Sub mit einer maximalen Auflösung von 2048 x 1536 bei 75 Hz</li> </ul>
<b>Audio</b>	<ul style="list-style-type: none"> <li>- 5.1 CH HD Audio (Realtek ALC662 Audio Codec)</li> <li>- Unterstützt vollständigen Überspannungsschutz</li> </ul>
<b>LAN</b>	<ul style="list-style-type: none"> <li>- PCIE x1 Gigabit LAN 10/100/1000 Mb/s</li> <li>- Realtek RTL8111GR</li> <li>- Unterstützt Wake-On-WAN</li> <li>- Unterstützt Wake-On-LAN</li> <li>- Unterstützt vollständigen Überspannungsschutz</li> <li>- Unterstützt LAN-Kabelerkennung</li> <li>- Unterstützt energieeffizientes Ethernet 802.3az</li> <li>- Unterstützt PXE</li> </ul>

Deutsch

<b>E/A-Anschlüsse an der Rückseite</b>	<ul style="list-style-type: none"> <li>- 1 x PS/2 Mouse Port</li> <li>- 1 x PS/2 Keyboard Port</li> <li>- 1 x Serieller port: COM1</li> <li>- 1 x VGA Port</li> <li>- 4 x Standard-USB 2.0-Anschlüsse (Unterstützt vollständigen Überspannungsschutz)</li> <li>- 1 x RJ-45 LAN Port mit LED (ACT/LINK LED und SPEED LED)</li> <li>- Audioanschlüsse: Line In / Line Out / Mikrofon</li> </ul>
<b>Speicher</b>	<ul style="list-style-type: none"> <li>- 4 x SATA2-Anschlüsse, unterstützt bis 3.0 Gb/s Datenübertragungsrate (Unterstützt keine "RAID"- und "Hot-Plug"-Funktionen)</li> </ul>
<b>Anschlüsse</b>	<ul style="list-style-type: none"> <li>- 1 x ATA100 IDE-Anschlüsse (Unterstützt bis 2 IDE-Geräte)</li> <li>- 1 x FDD-Anschlüsse</li> <li>- 1 x Druckerport-Anschlussleiste</li> <li>- 1 x Verteiler für Gehäuseeindringversuche</li> <li>- 1 x CPU-Lüfteranschluss (4-polig)</li> <li>- 1 x Gehäuse-Lüfteranschluss (4-polig)</li> <li>- 1 x Strom-Lüfteranschluss (3-polig)</li> <li>- 1 x 24-pin ATX-Netz-Header</li> <li>- 1 x 4-pin anschluss für 12V-ATX-Netzteil</li> <li>- 1 x Anschluss für Audio auf der Gehäusevorderseite</li> <li>- 2 x USB 2.0 Buchse (unterstützt 4 USB 2.0 Ports) (Unterstützt vollständigen Überspannungsschutz)</li> </ul>
<b>BIOS</b>	<ul style="list-style-type: none"> <li>- 8Mb AMI legal BIOS</li> <li>- Unterstützung für "Plug and Play"</li> <li>- ACPI 1.1-Weckfunktionen</li> <li>- JumperFree-Modus</li> <li>- VCCM, NB, VTT, GTLRef Stromspannung Multianpassung</li> <li>- Unterstützt Smart BIOS</li> </ul>
<b>Support-CD</b>	<ul style="list-style-type: none"> <li>- Pilotes, utilitaires, logiciel anti-virus (version d'évaluation), Google Chrome Browser und Toolbar, Start8 (30-Tage-Testversion)</li> </ul>
<b>Hardware Monitor</b>	<ul style="list-style-type: none"> <li>- Überwachung der CPU-Temperatur</li> <li>- Motherboardtemperaturerkennung</li> <li>- Drehzahlmessung für CPU/Gehäuse/Stromlüfter</li> <li>- CPU-Lüftergeräuschdämpfung</li> <li>- GEHAUSE OFFEN-Erkennung</li> <li>- Spannungsüberwachung: +12V, +5V, +3.3V, Vcore</li> </ul>
<b>Betriebssysteme</b>	<ul style="list-style-type: none"> <li>- Unterstützt Microsoft® Windows® 7 / 7 64-Bit / Vista™ / Vista™ 64-Bit / XP / XP 64-Bit</li> </ul>



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<b>Zertifizierungen</b>	- FCC, CE - Gemäß Ökodesign-Richtlinie (ErP/EuP) (Stromversorgung gemäß Ökodesign-Richtlinie (ErP/EuP) erforderlich)
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\* Für die ausführliche Produktinformation, besuchen Sie bitte unsere Website:  
<http://www.asrock.com>

Deutsch



## Spécifications

<b>Format</b>	<ul style="list-style-type: none"> <li>- Facteur de forme Micro ATX</li> <li>- Condensateur résistant pour alimentation de processeur</li> </ul>
<b>CPU</b>	<ul style="list-style-type: none"> <li>- 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</li> <li>- FSB1333/1066/800/533MHz CPUs</li> <li>- Prise en charge de la technologie Hyper-Threading</li> <li>- Prend en charge la technologie Untied Overclocking</li> <li>- Prise en charge de la technologie EM64T par le CPU</li> </ul>
<b>Chipsets</b>	<ul style="list-style-type: none"> <li>- Northbridge: Intel® G41</li> <li>- Southbridge: Intel® ICH7</li> </ul>
<b>Mémoire</b>	<ul style="list-style-type: none"> <li>- Compatible avec la Technologie de Mémoire à Canal Double</li> <li>- 2 x slots DIMM DDR3</li> <li>- Supporter DDR3 1333(OC)/1066/800 non-ECC, sans amortissement mémoire</li> <li>- Capacité maxi de mémoire système: 8GB</li> <li>- 2 x slots DIMM DDR2</li> <li>- Supporter DDR2 800/667/533 non-ECC, sans amortissement mémoire</li> <li>- Capacité maxi de mémoire système: 8GB</li> </ul>
<b>Slot d'extension</b>	<ul style="list-style-type: none"> <li>- 1 x slot PCI Express x16</li> <li>- 1 x slot PCI Express x1</li> <li>- 2 x slot PCI</li> </ul>
<b>VGA sur carte</b>	<ul style="list-style-type: none"> <li>- Intel® Graphics Media Accelerator X4500</li> <li>- nuanceur de pixels 4.0, VGA DX10</li> <li>- mémoire partagée max 1759MB</li> <li>- Prend en charge le D-Sub avec une résolution maximale jusqu'à 2048x1536 @ 75Hz</li> </ul>
<b>Audio</b>	<ul style="list-style-type: none"> <li>- 5.1 Son haute définition de CH (codec audio Realtek ALC662)</li> <li>- Protection complète contre les surtensions prise en charge</li> </ul>
<b>LAN</b>	<ul style="list-style-type: none"> <li>- Realtek RTL8111GR</li> <li>- Support du Wake-On-WAN</li> <li>- Support du Wake-On-LAN</li> <li>- Protection complète contre les surtensions prise en charge</li> <li>- Prise en charge de la détection de câble LAN</li> <li>- Prend en charge la fonction d'économie d'énergie Ethernet 802.3az</li> <li>- Support du PXE</li> </ul>



<b>E/A-Anschlüsse an der Rückseite</b>	<ul style="list-style-type: none"> <li>- 1 x PS/2 Mouse Port</li> <li>- 1 x PS/2 Keyboard Port</li> <li>- 1 x Serieller port: COM1</li> <li>- 1 x VGA Port</li> <li>- 4 x ports USB 2.0 par défaut (Protection complète contre les surtensions prise en charge)</li> <li>- 1 x RJ-45 LAN Port mit LED (ACT/LINK LED und SPEED LED)</li> <li>- Audioanschlüsse: Line In / Line Out / Mikrofon</li> </ul>
<b>Stockage</b>	<ul style="list-style-type: none"> <li>- 4 x SATA2-Anschlüsse, unterstützt bis 3.0 Gb/s Datenübertragungsrate (Unterstützt keine "RAID"- und "Hot-Plug"-Funktionen)</li> </ul>
<b>Anschlüsse</b>	<ul style="list-style-type: none"> <li>- 1 x ATA100 IDE-Anschlüsse (Unterstützt bis 2 IDE-Geräte)</li> <li>- 1 x FDD-Anschlüsse</li> <li>- 1 x Druckerport-Anschlussleiste</li> <li>- 1 x Embase d'intrusion chassis</li> <li>- 1 x Connecteur pour ventilateur de CPU (br. 4)</li> <li>- 1 x Connecteur pour ventilateur de Châssis (br. 4)</li> <li>- 1 x Connecteur pour ventilateur de Strom (br. 3)</li> <li>- 1 x 24-pin ATX-Netz-Header</li> <li>- 1 x 4-pin anschluss für 12V-ATX-Netzteil</li> <li>- 1 x Anschluss für Audio auf der Gehäusevorderseite</li> <li>- 2 x USB 2.0 Buchse (unterstützt 4 USB 2.0 Ports) (Protection complète contre les surtensions prise en charge)</li> </ul>
<b>BIOS</b>	<ul style="list-style-type: none"> <li>- 8Mb AMI legal BIOS</li> <li>- Unterstützung für "Plug and Play"</li> <li>- ACPI 1.1-Weckfunktionen</li> <li>- Gestion jumperless</li> <li>- VCCM, NB, VTT, GTLRef Stromspannung Multianpassung</li> <li>- Unterstützt Smart BIOS</li> </ul>
<b>CD d'assistance</b>	<ul style="list-style-type: none"> <li>- Pilotes, utilitaires, logiciel anti-virus (version d'évaluation), Google Chrome Browser et Toolbar, Start8 (30 jours d'évaluation)</li> </ul>
<b>Hardware Monitor</b>	<ul style="list-style-type: none"> <li>- Überwachung der CPU-Temperatur</li> <li>- Motherboardtemperaturerkennung</li> <li>- Drehzahlmessung für CPU/Gehäuse/Stromlüfter</li> <li>- CPU-Lüftergeräuschdämpfung</li> <li>- Detection d'OUVERTURE DE BOITIER</li> <li>- Spannungsüberwachung: +12V, +5V, +3.3V, Vcore</li> </ul>
<b>Betriebssysteme</b>	<ul style="list-style-type: none"> <li>- Unterstützt Microsoft® Windows® 7 / 7 64-Bit / Vista™ / Vista™ 64-Bit / XP / XP 64-Bit</li> </ul>
<b>Zertifizierungen</b>	<ul style="list-style-type: none"> <li>- FCC, CE</li> <li>- Gemäß Ökodesign-Richtlinie (ErP/EuP) (Stromversorgung gemäß Ökodesign-Richtlinie (ErP/EuP) erforderlich)</li> </ul>

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

## Specifiche

<b>Piattaforma</b>	<ul style="list-style-type: none"> <li>- Micro ATX Form Factor</li> <li>- Condensatore solido per alimentazione CPU</li> </ul>
<b>Processore</b>	<ul style="list-style-type: none"> <li>- 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</li> <li>- FSB1333/1066/800/533 MHz</li> <li>- Supporto tecnologia Hyper Threading</li> <li>- Supporta la tecnologia overclocking "slegata"</li> <li>- Supporto CPU EM64T</li> </ul>
<b>Chipset</b>	<ul style="list-style-type: none"> <li>- Northbridge: Intel® G41</li> <li>- Southbridge: Intel® ICH7</li> </ul>
<b>Memoria</b>	<ul style="list-style-type: none"> <li>- Supporto tecnologia Dual Channel Memory</li> <li>- 2 x slot DDR3 DIMM</li> <li>- Supporto DDR3 1333(OC)/1066/800 non-ECC, memoria senza buffer )</li> <li>- Capacità massima della memoria di sistema: 8GB</li> <li>- 2 x slot DDR2 DIMM</li> <li>- Supporto DDR2 800/667/533 non-ECC, memoria senza buffer</li> <li>- Capacità massima della memoria di sistema: 8GB</li> </ul>
<b>Slot di espansione</b>	<ul style="list-style-type: none"> <li>- 1 x slot PCI Express x16</li> <li>- 1 x slot PCI Express x1</li> <li>- 2 x slot PCI</li> </ul>
<b>VGA su scheda</b>	<ul style="list-style-type: none"> <li>- Intel® Graphics Media Accelerator X4500</li> <li>- Pixel Shader 4.0, VGA DX10</li> <li>- Memoria massima condivisa 1759MB</li> <li>- Supporta D-Sub con risoluzione massima fino a 2048x1536 @ 75Hz</li> </ul>
<b>Audio</b>	<ul style="list-style-type: none"> <li>- 5.1 Audio HD CH (Realtek ALC662 Audio Codec)</li> <li>- Supporta protezione completa da sovratensione</li> </ul>
<b>LAN</b>	<ul style="list-style-type: none"> <li>- PCIE x1 Gigabit LAN 10/100/1000 Mb/s</li> <li>- Realtek RTL8111GR</li> <li>- Supporta Wake-On-WAN</li> <li>- Supporta Wake-On-LAN</li> <li>- Supporta protezione completa da sovratensione</li> <li>- Supporta il rilevamento cavo LAN</li> <li>- Supporta Energy Efficient Ethernet 802.3az</li> <li>- Supporta PXE</li> </ul>

<b>Pannello posteriore-I/O</b>	<ul style="list-style-type: none"> <li>- 1 x porta PS/2 per mouse</li> <li>- 1 x porta PS/2 per tastiera</li> <li>- 1 x Porta COM</li> <li>- 1 x Porta VGA</li> <li>- 4 x porte USB 2.0 già integrate (Supporta protezione completa da sovratensione)</li> <li>- 1 x porte LAN RJ-45 con LED (LED azione/collegamento e LED velocità)</li> <li>- Audio Jack: Line In / Line Out / Microfono</li> </ul>
<b>Archiviazione</b>	- 4 x connettori SATA2 3.0Go/s (Non supporta le funzioni "RAID" e "Collegamento a caldo")
<b>Connettori</b>	<ul style="list-style-type: none"> <li>- 1 x connettori ATA100 IDE (supporta fino a 2 dispositivi IDE)</li> <li>- 1 x porta Floppy</li> <li>- 1 x Collettore porta stampante</li> <li>- 1 x header di intrusione dello chassis</li> <li>- 1 x Connettore ventolina CPU (4-pin)</li> <li>- 1 x Connettore ventolina telaio (4-pin)</li> <li>- 1 x Connettore ventola alimentazione (3-pin)</li> <li>- 1 x 24-pin collettore alimentazione ATX</li> <li>- 1 x 4-pin connettore ATX 12V</li> <li>- 1 x Connettore audio sul pannello frontale</li> <li>- 2 x header USB 2.0 (supporta 4 porte USB 2.0) (Supporta protezione completa da sovratensione)</li> </ul>
<b>BIOS</b>	<ul style="list-style-type: none"> <li>- 8Mb AMI legal BIOS</li> <li>- Supporta "Plug and Play"</li> <li>- Compatibile con ACPI 1.1 wake up events</li> <li>- Supporta jumperfree</li> <li>- Regolazione multi-voltaggio VCCM, NB, VTT, GTLRef</li> <li>- Smart BIOS supportato</li> </ul>
<b>CD di supporto</b>	- Driver, Utilità, Software AntiVirus (versione di prova), Google Chrome Browser e Toolbar, Start8 (30 giorni di prova)
<b>Monitoraggio Hardware</b>	<ul style="list-style-type: none"> <li>- Sensore per la temperatura del processore</li> <li>- Sensore temperatura scheda madre</li> <li>- Indicatore di velocità per la ventola del CPU/Chassis/ Alimentazione</li> <li>- Ventola CPU silenziosa</li> <li>- Rilevamento CASE APERTO</li> <li>- Voltaggio: +12V, +5V, +3.3V, Vcore</li> </ul>
<b>Compatibilità SO</b>	- Microsoft® Windows® 7 / 7 64 bit / Vista™ / Vista™ 64 bit / XP XP 64 bit
<b>Certificazioni</b>	<ul style="list-style-type: none"> <li>- FCC, CE</li> <li>- Predisposto ErP/EuP (è necessaria l'alimentazione predisposta per il sistema ErP/EuP)</li> </ul>

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

## Especificación

<b>Plataforma</b>	<ul style="list-style-type: none"> <li>- Factor forma Micro ATX</li> <li>- Condensador sólido para alimentación de CPU</li> </ul>
<b>Procesador</b>	<ul style="list-style-type: none"> <li>- 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</li> <li>- FSB1333/1066/800/533 MHz</li> <li>- Admite tecnología Hyper Threading</li> <li>- Admite tecnología de aumento de velocidad liberada</li> <li>- Admite CPU EM64T</li> </ul>
<b>Chipset</b>	<ul style="list-style-type: none"> <li>- North Bridge: Intel® G41</li> <li>- South Bridge: Intel® ICH7</li> </ul>
<b>Memoria</b>	<ul style="list-style-type: none"> <li>- Soporte de Tecnología de Memoria de Doble Canal</li> <li>- 2 x DDR3 DIMM slots</li> <li>- Apoya DDR3 1333(OC)/1066/800 non-ECC, memoria de un-buffered</li> <li>- Máxima capacidad de la memoria del sistema: 8GB</li> <li>- 2 x DDR2 DIMM slots</li> <li>- Apoya DDR2 800/667/533 non-ECC, memoria de un-buffered</li> <li>- Máxima capacidad de la memoria del sistema: 8GB</li> </ul>
<b>Ranuras de Expansión</b>	<ul style="list-style-type: none"> <li>- 1 x ranuras PCI Express x16</li> <li>- 1 x ranuras PCI Express x1</li> <li>- 1 x ranuras PCI</li> </ul>
<b>VGA OnBoard</b>	<ul style="list-style-type: none"> <li>- Intel® Graphics Media Accelerator X4500</li> <li>- Sombreador de Píxeles 4.0, VGA DX10</li> <li>- 1759MB de Memoria máxima compartida</li> <li>- Admite D-Sub con una resolución máxima de 2048x1536 a 75 Hz</li> </ul>
<b>Audio</b>	<ul style="list-style-type: none"> <li>- Sonido HD de 5.1 Canales (Códec de sonido Realtek ALC662)</li> <li>- Admite protección total contra subidas de tensión</li> </ul>
<b>LAN</b>	<ul style="list-style-type: none"> <li>- PCIE x1 Gigabit LAN 10/100/1000 Mb/s</li> <li>- Realtek RTL8111GR</li> <li>- Soporta Wake-On-WAN</li> <li>- Soporta Wake-On-LAN</li> <li>- Admite protección total contra subidas de tensión</li> <li>- Admite detección de conexión de cable LAN</li> <li>- Compatible con Ethernet de consumo eficiente de energía 802.3az</li> <li>- Soporta PXE</li> </ul>

<b>Entrada/Salida de Panel Trasero</b>	<ul style="list-style-type: none"> <li>- 1 x puerto de ratón PS/2</li> <li>- 1 x puerto de teclado PS/2</li> <li>- 1 x puerto serial: COM1</li> <li>- 1 x Puerto VGA</li> <li>- 4 x puertos USB 2.0 predeterminados (Admite protección total contra subidas de tensión)</li> <li>- 1 x Puerto LAN RJ-45 con LED (LED de ACCIÓN/ENLACE y LED de VELOCIDAD)</li> <li>- Audio Jack: Line In / Line Out / Micrófono</li> </ul>
<b>Almacenamiento</b>	<ul style="list-style-type: none"> <li>- 4 x conexiones SATA2, admiten una velocidad de transferencia de datos de hasta 3,0Gb/s (No soporta las funciones "RAID" y "Conexión en caliente")</li> </ul>
<b>Conectores</b>	<ul style="list-style-type: none"> <li>- 1 x ATA100 conexiones IDE (admite hasta 2 dispositivos IDE)</li> <li>- 1 x puerto Floppy</li> <li>- 1 x cabecera de puerto de impresora</li> <li>- 1 x Conector de detección de intrusión en el chasis</li> <li>- 1 x Conector del ventilador del CPU (4-pin)</li> <li>- 1 x Conector del ventilador del chasis (4-pin)</li> <li>- 1 x Conector del ventilador del alimentación (3-pin)</li> <li>- 1 x 24-pin cabezal de alimentación ATX</li> <li>- 1 x 4-pin conector de ATX 12V power</li> <li>- 1 x Conector de audio de panel frontal</li> <li>- 2 x Conector USB 2.0 (compatible con 4 puertos USB 2.0) (Admite protección total contra subidas de tensión)</li> </ul>
<b>BIOS</b>	<ul style="list-style-type: none"> <li>- 8Mb AMI legal BIOS</li> <li>- Soporta "Plug and Play"</li> <li>- ACPI 1.1 compliance wake up events</li> <li>- Soporta "jumper free setup"</li> <li>- Múltiple ajuste de VCCM, NB, VTT, GTLRef oltage</li> <li>- Compatible con Smart BIOS</li> </ul>
<b>CD de soporte</b>	<ul style="list-style-type: none"> <li>- Controladores, utilidades, software de antivirus (versión de prueba), Google Chrome Browser y Toolbar, Start8 (Version de prueba de 30 días)</li> </ul>
<b>Monitor Hardware</b>	<ul style="list-style-type: none"> <li>- Sensibilidad a la temperatura del procesador</li> <li>- Sensibilidad a la temperatura de la placa madre</li> <li>- Taquímetros de los ventiladores del procesador y del CPU / chasis / alimentación</li> <li>- Ventilador silencioso para procesador</li> <li>- Control de APERTURA DE CARCASA</li> <li>- Monitor de Voltaje: +12V, +5V, +3.3V, Vcore</li> </ul>

Español



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<b>OS</b>	- En conformidad con Microsoft® Windows® 7 / 7 64 bits / Vista™ / Vista™ 64 bits / XP / XP 64 bits
<b>Certificaciones</b>	- FCC, CE - Cumple con la directiva ErP/EuP (se requiere una fuente de alimentación que cumpla con la directiva ErP/EuP)

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

**Español**



## Спецификации

<b>Платформа</b>	- форм-фактор Micro ATX - Твердотельный конденсатор в цепи питания процессора
<b>Процессор</b>	- LGA 775 для Intel® Core™ 2 Extreme / Core™ 2 Quad / Core™ 2 Duo / Pentium® Dual Core / Celeron® Dual Core / Celeron® с поддержкой процессоров Penryn Quad Core Yorkfield и Dual Core Wolfdale - FSB1333/1066/800/533 MHz - Поддержка технологии Hyper-Threading - Поддержка технологии Untied Overclocking - Поддержка процессоров EM64T
<b>Набор микросхем</b>	- Северный мост: Intel® G41 - Южный мост: Intel® ICH7
<b>Память</b>	- Поддержка технологии Dual Channel DDR3/DDR2 Memory Technology - 2 x гнезда DDR3 DIMM - Поддержите DDR3 1333(OC)/1066/800 не- ECC, безбуферная память - Макс. 8 Гб - 2 x гнезда DDR2 DIMM - Поддержите DDR2 800/667/533 не- ECC, безбуферная память - Макс. 8 Гб
<b>Гнезда расширения</b>	- 1 x гнезда PCI Express x16 - 1 x гнезда PCI Express x1 - 2 x гнезда PCI
<b>Графика</b>	- Intel® Graphics Media Accelerator X4500 - Pixel Shader 4.0, Поддержка DirectX 10 - Макс. объем разделяемой памяти 1759Мб - Поддержка D-Sub с максимальным разрешением до 2048x1536 @ 75 Гц
<b>Аудиосистема</b>	- 5.1-канальный звук HD Audio уровня (аудиокодек Realtek ALC662) - Поддержка полной защиты от перенапряжения
<b>ЛВС</b>	- PCI-E x1 Gigabit LAN 10/100/1000 Mb/s - Realtek RTL8111GR - Поддержка Wake-On-WAN - Поддержка Wake-On-LAN - Поддержка полной защиты от перенапряжения - Поддержка определения кабеля лвс - Поддержка Energy Efficient Ethernet 802.3az - Поддержка PXE
<b>Разъемы ввода-вывода на задней панели</b>	- 1 x порт мыши PS/2 - 1 x порт клавиатуры PS/2 - 1 x порт COM1 - 1 x VGA порт

Русский

	<ul style="list-style-type: none"> <li>- 4 x порта USB 2.0 на задней панели в стандартной конфигурации (Поддержка полной защиты от перенапряжения)</li> <li>- Разъем 1 x RJ-45 LAN с светодиодным индикатором (индикатор АСТ/LINK и индикатор SPEED)</li> <li>- Аудиоразъемы: линейный вход / линейный выход / микрофон</li> </ul>
<b>Запоминающие устройства</b>	<ul style="list-style-type: none"> <li>- 4 x разъема SATA2 3,0 Гбит/с (Не поддерживает функции "RAID" и "Hot-Plug" (горячее подключение))</li> </ul>
<b>Колодки и плате</b>	<ul style="list-style-type: none"> <li>- 1 x разъема ATA100 IDE (Поддерживает до 2 устройств IDE)</li> <li>- 1 x Порт гибкого диска</li> <li>- 1 x Разъем порта печати</li> <li>- 1 x разъем датчика открытой крышки</li> <li>- 1 x соединитель: CPU FAN (4-контактный)</li> <li>- 1 x соединитель: Chassis FAN (4-контактный)</li> <li>- 1 x соединитель: Power FAN (3-контактный)</li> <li>- 1 x 24-контактный Колодка питания ATX</li> <li>- 1 x 4-контактный Разъем ATX 12 В</li> <li>- 1 x Аудиоразъем передней панели</li> <li>- 2 x Колодка USB 2.0 (поддержка 4 портов USB 2.0) (Поддержка полной защиты от перенапряжения)</li> </ul>
<b>BIOS</b>	<ul style="list-style-type: none"> <li>- Лицензированная 8Mb AMI BIOS</li> <li>- поддержка "Plug and Play"</li> <li>- ACPI 1.1, включение по событиям</li> <li>- поддержка режима настройки без перемычек</li> <li>- центральный VCCM, NB, VTT, GTLRef Мультирегулирование Напряжения</li> <li>- Поддержка Smart BIOS</li> </ul>
<b>Компактдиск</b>	<ul style="list-style-type: none"> <li>- Драйверы, утилиты, антивирусное программное обеспечение (Пробный Вариант), Google Chrome Browser и Toolbar, Start8</li> </ul>
<b>поддержки</b>	<ul style="list-style-type: none"> <li>(демоверсия на 30 дней)</li> </ul>
<b>Контроль оборудования</b>	<ul style="list-style-type: none"> <li>- Датчики температуры процессора</li> <li>- Датчики температуры корпуса</li> <li>- Тахометры вентиляторов CPU/Chassis/Power FAN</li> <li>- Тихий режим вентилятора процессора</li> <li>- Определение открытой крышки</li> <li>- Контроль напряжения: +12V, +5V, +3.3V, Vcore</li> </ul>
<b>Операционные системы</b>	<ul style="list-style-type: none"> <li>- Совместимость с Microsoft® Windows® 7 / 7 64-bit / Vista™ / Vista™ 64-bit / XP / XP 64-bit</li> </ul>
<b>Сертификаты</b>	<ul style="list-style-type: none"> <li>- FCC, CE</li> <li>- Совместимость с ErP/EuP Ready (требуется блок питания совместимый с ErP/EuP)</li> </ul>

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



## Especificações

<b>Plataforma</b>	<ul style="list-style-type: none"><li>- Formato Micro ATX</li><li>- Condensador Solid para alimentação da CPU</li></ul>
<b>CPU</b>	<ul style="list-style-type: none"><li>- Socket Intel® Dual Core Core™ 2 Extreme / Core™ 2 Quad / Core™ 2 Duo / Pentium® Dual Core / Celeron® Dual Core / Celeron® de 775 pinos com suporte para o processador Penryn Quad Core Yorkfield e Dual Core Wolfdale</li><li>- FSB1333/1066/800/533MHz CPUs</li><li>- Suporta a tecnologia Hyper-Threading</li><li>- Suporta a tecnologia Untied Overclocking</li><li>- Suporta a CPU EM64T</li></ul>
<b>Chipsets</b>	<ul style="list-style-type: none"><li>- North Bridge: Intel® G41</li><li>- South Bridge: Intel® ICH7</li></ul>
<b>Memória</b>	<ul style="list-style-type: none"><li>- Suporte à tecnologia de memória de duplo canal</li><li>- 2 x slots de DDR3 DIMM</li><li>- Suporte para memória não intermédia DDR3 1333(OC)/1066/800, não ECC</li><li>- Capacidade máxima de memória do sistema: 8GB</li><li>- 2 x slots de DDR2 DIMM</li><li>- Suporte para memória não intermédia DDR2 800/667/533, não ECC</li><li>- Capacidade máxima de memória do sistema: 8GB</li></ul>
<b>Slots de Expansão</b>	<ul style="list-style-type: none"><li>- 1 x slot de PCI Express x16</li><li>- 1 x slot de PCI Express x1</li><li>- 1 x slot de PCI</li></ul>
<b>VGA integrado</b>	<ul style="list-style-type: none"><li>- Intel® Graphics Media Accelerator X4500</li><li>- Pixel Shader 4.0, DX10 VGA</li><li>- Memória partilhada máxima 1759MB</li><li>- Suporta D-Sub com resolução máxima até 2048x1536 @ 75Hz</li></ul>
<b>Áudio</b>	<ul style="list-style-type: none"><li>- Áudio de alta definição de canal 5.1 (Codec de áudio Realtek ALC662)</li><li>- Suporta proteção total contra sobretensão</li></ul>
<b>LAN</b>	<ul style="list-style-type: none"><li>- PCIE x1 Gigabit LAN 10/100/1000 Mb/s</li><li>- Realtek RTL8111GR</li><li>- Suporta Wake-On-WAN</li><li>- Suporta Wake-On-LAN</li><li>- Suporta proteção total contra sobretensão</li><li>- Suporta Detecção de cabo LAN</li><li>- Suporta Wake-On-LAN</li><li>- Suporta PXE</li></ul>

<b>Entrada/Saída pelo painel traseiro</b>	<ul style="list-style-type: none"> <li>- 1 x porta para mouse PS/2</li> <li>- 1 x porta para teclado PS/2</li> <li>- 1 x porta COM1</li> <li>- 1 x porta VGA</li> <li>- 4 x portas USB 2.0 padrão (Suporta proteção total contra sobretensão)</li> <li>- 1 x porta LAN RJ-45 com LED (LED ACT/LIG e LED VELOCIDADE)</li> <li>- Áudio Jack: saída / entrada de linha / microfone + porta de jogos</li> </ul>
<b>Armazenamento</b>	<ul style="list-style-type: none"> <li>- 4 x conectores SATA2, suporte a taxa de transferência de dados de até 3,0 Gb/s (Serial Não suporta as funções "RAID" e "conexão a quente")</li> </ul>
<b>Conectores</b>	<ul style="list-style-type: none"> <li>- 1 x conectores ATA100 IDE (suporta até 2 dispositivos IDE)</li> <li>- 1 x porta para disquete</li> <li>- 1 x Conector de Porta de Impressão</li> <li>- 1 x Conector de intrusão no chassis</li> <li>- 1 x Conector do ventilador da CPU (4 pinos)</li> <li>- 1 x Conector do ventilador da chassis (4 pinos)</li> <li>- 1 x Conector do ventilador da energia (3 pinos)</li> <li>- 1 x Conector de força do ATX de 24 pinos</li> <li>- 1 x Conector ATX 12 V de 4 pinos</li> <li>- 1 x Conector Áudio do painel frontal</li> <li>- 2 x cabezal USB 2.0 (suporta 4 portas USB 2.0) (Suporta proteção total contra sobretensão)</li> </ul>
<b>BIOS</b>	<ul style="list-style-type: none"> <li>- 8Mb BIOS AMI</li> <li>- Suporta dispositivos "Plug and Play"</li> <li>- ACPI 1.1 atendendo a eventos de "wake up"</li> <li>- Suporta dispositivos sem jumper</li> <li>- Regulação Múltipla de Voltagem de VCCM, NB, VTT, GTLRef</li> <li>- Suporte para Smart BIOS</li> </ul>
<b>CD de suporte</b>	<ul style="list-style-type: none"> <li>- Controladores, utilitários, software antivírus (Experimentação Versão), Navegador Google Chrome e Barra de Ferramentas, Start8 (30 dias de avaliação)</li> </ul>
<b>Monitor do HW</b>	<ul style="list-style-type: none"> <li>- Sensores de temperatura do processador</li> <li>- Medição de temperatura da placa-mãe</li> <li>- Tacômetros de ventilador do CPU/chassis/energia</li> <li>- Ventoinha silenciosa para a CPU</li> <li>- Detecção de CAIXA ABERTA</li> <li>- Monitoramento de voltagem: +12 V, +5 V, +3.3 V, Vcore</li> </ul>

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<b>Sistema Operacional</b>	- Microsoft® Windows® 7 / 7 de 64 bits / Vista™ / Vista™ de 64 bits / XP / XP de 64 bits
<b>Certificações</b>	- FCC, CE - “ErP/EuP Ready” (é necessária alimentação eléctrica “ErP/EuP Ready”)

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

## Özellikler

<b>Platform</b>	- Mikro ATX Form Faktörü - CPU gücü için Katı Kapasitör
<b>CPU</b>	- Intel® Core™ 2 Extreme / Core™ 2 Quad / Core™ 2 Duo / Pentium® Çift Çekirdekli / Celeron® Çift Çekirdekli / Celeron® için LGA 775, Penryn Dört Çekirdekli Yorkfield ve Çift Çekirdekli Wolfdale işlemcileri destekler - FSB1333/1066/800/533 MHz'yi destekler - Hyper-Threading Teknolojisini destekler - Untied Overclocking Teknolojisini destekler - EM64T CPU'yu destekler
<b>Yonga seti</b>	- Northbridge: Intel® G41 - Southbridge: Intel® ICH7
<b>Bellek</b>	- Çift Kanallı DDR3/DDR2 Belleği Teknolojisi - 2 x DDR3 DIMM yuva - DDR3 1333(OC)/1066/800 ECC olmayan, ara belleksiz bellek - Sistem belleğinin maks. kapasitesi: 8 GB - 2 x DDR2 DIMM yuva - DDR2 800/667/533 ECC olmayan, ara belleksiz bellek - Sistem belleğinin maks. kapasitesi: 8 GB
<b>Genişletme Yuvası</b>	- 1 x PCI Express x16 yuva - 1 x PCI Express x1 yuva - 2 x PCI yuva
<b>Grafikler</b>	- Intel® Grafik Ortam Hızlandırıcısı X4500 - Pixel Shader 4.0, DirectX 10 - Maks. paylaşılan bellek 1759 MB - 75Hz'de 2048x1536'ya kadar maks. çözünürlükle D-Sub'ı destekler
<b>Ses</b>	- 5,1 Kanal HD Ses (Realtek ALC662 Ses Codec'i) - Tam Dalgalanma Korumasını Destekler
<b>LAN</b>	- PCIE x1 Gigabit LAN 10/100/1000 Mb/sn - Realtek RTL8111GR - WAN'da Uyan özelliğini destekler - LAN'da Uyan özelliğini destekler - Tam Dalgalanma Korumasını Destekler - LAN Kablo Algılama'yı destekler - Enerji Verimliliğine Sahip Ethernet 802.3az işlevini destekler - PXE destekler

<b>Arka Panel G/C</b>	<ul style="list-style-type: none"> <li>- 1 x PS/2 Fare Portu</li> <li>- 1 x PS/2 Klavye Portu</li> <li>- 1 x Seri Port: COM1</li> <li>- 1 x VGA Portu</li> <li>- 4 x Kullanıma Hazır USB 2.0 Portu (Tam Dalgalanma Korumasını Destekler)</li> <li>- 1 x RJ-45 LAN Portu, LED'li (AKT/LINK LED'i ve HIZ LED'i)</li> <li>- HD Ses Jakı: Hat girişi/Ön Hoparlör/Mikrofon</li> </ul>
<b>Depolama</b>	- 4 x SATA2 3.0 Gb/sn konektör (RAID ve "Sistem Açıkken Bileşen Takma" işlevleri desteği yoktur)
<b>Konektör</b>	<ul style="list-style-type: none"> <li>- 1 x ATA100 IDE konektörü (2 x IDE cihazları destekler)</li> <li>- 1 x Disket konektörü</li> <li>- 1 x Yazdırma portu fişi</li> <li>- 1 x Kasaya Yetkisiz Erişim fişi</li> <li>- 1 x CPU FAN konektörü (4 pin)</li> <li>- 1 x Kasa FAN konektörü (4 pin)</li> <li>- 1 x Güç FAN konektörü (3 pin)</li> <li>- 1 x 24 pin ATX güç konektörü</li> <li>- 1 x 4 pin 12V güç konektörü</li> <li>- 1 x Ön panel ses konektörü</li> <li>- 2 x USB 2.0 fiş (4 USB 2.0 portu destekler) (Tam Dalgalanma Korumasını Destekler)</li> </ul>
<b>BIOS Özelliği</b>	<ul style="list-style-type: none"> <li>- 8 Mb AMI Legal BIOS</li> <li>- "Tak Çalıştır"ı destekler</li> <li>- ACPI 1.1 Uyumlu Uyandırma Olayları</li> <li>- Jumpersız destekler</li> <li>- VCCM, NB, VTT, GTLRef gerilim çok ayarı</li> <li>- Smart BIOS Desteği</li> </ul>
<b>Destek CD'si</b>	- Sürücüler, Yardımcı Programlar, AntiVirus Yazılımı (Deneme Sürümü), Google Chrome Browser ve Toolbar, Start8 (30 günlük deneme)
<b>Donanım Monitör</b>	<ul style="list-style-type: none"> <li>- CPU Sıcaklık Duyarlılığı</li> <li>- Kasa Sıcaklık Duyarlılığı</li> <li>- CPU/Kasa/Güç Fan Takometresi</li> <li>- CPU Sessiz Fan</li> <li>- KASA ACİK algılaması.</li> <li>- Voltaj İzleme: +12V, +5V, +3,3V, Vcore</li> </ul>
<b>İS</b>	- Microsoft® Windows® 7 / 7 64-bit / Vista™ / Vista™ 64-bit / XP / XP 64-bit uyumlu
<b>Sertifikalar</b>	<ul style="list-style-type: none"> <li>- FCC, CE, WHQL</li> <li>- ErP/EuP Hazır (ErP/EuP hazır güç kaynağı gerekli)</li> </ul>

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

## 설명서

플랫폼	- Micro ATX 폼 팩터 - CPU 전원용 솔리드 콘덴서
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® / Celeron® Dual Core - FSB1333/1066/800/533MHz CPU 와 겸용합니다 - 하이퍼-스레딩 기술 지원 - 언타이드 오버클러킹(Untied Overclocking) 기술 지원 - EM64T CPU 지원
칩셋	- 노스브릿지: Intel® G41 - 사우스 브릿지: Intel® ICH7
메모리	- 듀얼 채널 메모리 기술 지원 - DDR3 DIMM 슬롯 2 개 - DDR3 1333(OC)/1066/800 비-ECC, 언버퍼드 메모리를 지원 - 최대 시스템 메모리 용량: 8GB - DDR2 DIMM 슬롯 2 개 - DDR2 800/667/533 비-ECC, 언버퍼드 메모리를 지원 - 최대 시스템 메모리 용량: 8GB
확장 슬롯	- 1 개의 PCI Express x16 슬롯 - 1 개의 PCI Express x1 슬롯 - 2 개의 PCI 슬롯
온보드 VGA	- Intel® Graphics Media Accelerator X4500 - Pixel Shader 4.0, DX10 VGA - 최대 공유 메모리 1759MB - 최대 해상도 2048x1536 @ 75Hz 까지 D-Sub 지원
오디오	- 5.1CHHD 오디오 (Realtek ALC662 오디오 코덱) - 폴 서지 보호 지원
랜	- PCIE x1 Gigabit LAN 10/100/1000 Mb/s - Realtek RTL8111GR - Wake-On-WAN 지원 - Wake-On-LAN 지원 - 폴 서지 보호 지원 - LAN 케이블 감지 지원 - 절전형 이더넷 802.3az 지원 - PXE 지원
후면판 I/O	- 1개 PS/2 마우스 포트 - 1개 PS/2 키보드 포트

	<ul style="list-style-type: none"> <li>- 1개의 COM1</li> <li>- 1개의 VGA 포트</li> <li>- 4개더포트 USB 2.0 포트(풀 서지 보호 지원)</li> <li>- 1개LED(ACT/LINK LED 및 SPEED LED)가 있는 RJ-45 LAN 포트</li> <li>- 라인 출력/라인 입력/마이크 폰+게임 포트</li> </ul>
저장 장치	<ul style="list-style-type: none"> <li>- SATA2커넥터 4개, 최고 3.0 Gb/s의 데이터 전송 속도 (RAID 및 핫플러그기능은 지원되지 않음)</li> </ul>
온보드 헤더 및 커넥터	<ul style="list-style-type: none"> <li>- ATA100 IDE 커넥터 1개 (최고 2개의 IDE 장치 지원)</li> <li>- 플로피 포트 1개</li> <li>- 프린트 포트 헤더 1개</li> <li>- 새시 침입 헤더 1개</li> <li>- CPU 팬 커넥터 1개 (4핀)</li> <li>- 새시 팬 커넥터 1개 (4핀)</li> <li>- 전원 팬 커넥터 1개 (3핀)</li> <li>- 24 핀 ATX 전원 헤더 1개</li> <li>- 4핀 ATX 12V 파워 콘넥터 1개</li> <li>- 전면부 오디오 콘넥터 1개</li> <li>- USB 2.0 헤더 2개 (4개의 USB 2.0 포트 지원)(풀 서지 보호 지원)</li> </ul>
BIOS	<ul style="list-style-type: none"> <li>- 8Mb AMI BIOS</li> <li>- AMI 에 따른 바이오스 : “플러그 앤 플레이” 지원</li> <li>- ACPI 1.1 웨이크-업 이벤트와의 호환</li> <li>- 점퍼 프리 지원</li> <li>- VCCM, NB, VTT, GTLRef 전압 멀티 조절</li> <li>- Smart BIOS 지원</li> </ul>
지원 CD	<ul style="list-style-type: none"> <li>- 드라이버, 유틸리티, 안티 바이러스 소프트웨어(트라이얼 버전), Google Chrome Browser 및 Toolbar, Start8 (30일 시험판)</li> </ul>
하드웨어 모니터	<ul style="list-style-type: none"> <li>- CPU 온도 감지</li> <li>- 마더보드 온도 감지</li> <li>- CPU/ 새시/ 전원 팬 회전 속도계: 새시(케이스) 팬 회전 속도계</li> <li>- CPU 소음팬</li> <li>- 케이스 열림 감지</li> <li>- 전압 감시 기능 : +12V, +5V, +3.3V, Vcore</li> </ul>
OS	<ul style="list-style-type: none"> <li>- 마이크로 소프트 Windows® 7/7 64 비트 /Vista™/ Vista™64 비트/XP/XP 64 비트 와 호환</li> </ul>
인증서	<ul style="list-style-type: none"> <li>- FCC, CE</li> <li>- ErP/EuP 지원(ErP/EuP 지원 전원 공급기가 요구됨)</li> </ul>

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

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## 仕様

プラットフォーム	<ul style="list-style-type: none"> <li>- Micro ATX フォームファクター</li> <li>- CPU電源用固体コンデンサ</li> </ul>
CPU	<ul style="list-style-type: none"> <li>- LGA 775はIntel® Core™ 2 Extreme / Core™ 2 Quad / Core™ 2 Duo / Pentium® Dual Core / Celeron® Dual Core / Celeron®に対応し、Penryn Quad Core Yorkfield、Dual Core Wolfdale プロセッサをサポートします</li> <li>- FSB1333/1066/800/533 MHz</li> <li>- ハイパースレッド テクノロジをサポート</li> <li>- Untied Overclocking をサポート</li> <li>- EM64T CPU をサポート</li> </ul>
チップセット	<ul style="list-style-type: none"> <li>- ノースブリッジ: Intel® G41</li> <li>- サウスブリッジ: Intel® ICH7</li> </ul>
メモリー	<ul style="list-style-type: none"> <li>- デュアルチャンネル DDR3 / DDR2 メモリーテクノロジー</li> <li>- DDR3 DIMM スロット x 2</li> <li>- DDR3 1333(OC)/1066/800 non-ECC, un-buffered メモリーに対応</li> <li>- システムメモリーの最大容量: 8GB</li> <li>- DDR2 DIMM スロット x 2</li> <li>- DDR2 800/667/533 non-ECC, un-buffered メモリーに対応</li> <li>- システムメモリーの最大容量: 8GB</li> </ul>
拡張スロット	<ul style="list-style-type: none"> <li>- 1 x PCI Express x16 スロット</li> <li>- 1 x PCI Express x1 スロット</li> <li>- 2 x PCI スロット</li> </ul>
グラフィック	<ul style="list-style-type: none"> <li>- Intel® Graphics Media Accelerator X4500</li> <li>- Pixel Shader 4.0、DirectX 10</li> <li>- 最大の共有メモリー 1759MB</li> <li>- 2048x1536 @ 75Hz の最大解像度で D-Sub をサポート</li> </ul>
オーディオ	<ul style="list-style-type: none"> <li>- 5.1 CH HD オーディオ (Realtek ALC662 オーディオコーデック)</li> <li>- 完全なサージ保護に対応</li> </ul>
LAN	<ul style="list-style-type: none"> <li>- PCIE x1 Gigabit LAN 10/100/1000 Mb/s</li> <li>- Realtek RTL8111GR</li> <li>- Wake-On-WAN をサポート</li> <li>- Wake-On-LAN をサポート</li> <li>- 完全なサージ保護に対応</li> <li>- LAN ケーブル検出をサポート</li> <li>- エネルギー効率のよいイーサネット 802.3az をサポート</li> <li>- PXE をサポート</li> </ul>



リアパネル I/O	<ul style="list-style-type: none"> <li>- PS/2マウスポート x 1</li> <li>- PS/2キーボードポート x 1</li> <li>- シリアルポート (コネクタ-巻状: COM1) x 1</li> <li>- VGAポート x 1</li> <li>- USB 2.0ポート x 4 (完全なサージ保護に対応)</li> <li>- LED( ACT/LINK LED および SPEED LED) 付き</li> <li>- RJ-45 LAN ポート x 1</li> <li>- オーディオジャック: 入力、前部スピーカー、マイク入力</li> </ul>
ストレージ	<ul style="list-style-type: none"> <li>- 4 x SATA2 3.0 Gb/s コネクタ (RAID および「ホットプラグ」機能はサポートしていません)</li> </ul>
コネクタ	<ul style="list-style-type: none"> <li>- ATA100 IDEコネクタ-s (サポート 2 x IDE devices) x 1</li> <li>- フロッピーコネクタ x 1</li> <li>- プリントポートヘッダ x 1</li> <li>- シャーシ侵入ヘッダ x 1</li> <li>- CPUファンコネクタ x 1 (4ピン)</li> <li>- シャーシファンコネクタ x 1 (4ピン)</li> <li>- 電源ファンコネクタ x 1 (3ピン)</li> <li>- 24ピン ATX 電源コネクタ x 1</li> <li>- 4ピン 12V 電源コネクタ x 1</li> <li>- フロントパネルオーディオコネクタ x 1</li> <li>- USB 2.0 ヘッダー(USB 2.0用4ポートをサポート) x 2 (完全なサージ保護に対応)</li> </ul>
BIOS 関連機能	<ul style="list-style-type: none"> <li>- 8Mb AMI Legal BIOS</li> <li>- プラグ&amp;プレイをサポート</li> <li>- ACPI 1.1 準拠ウェイクアップイベント</li> <li>- jumperfreeモードサポート</li> <li>- VCCM、NB、VTT、GTLRefブリッジ電圧</li> <li>- Smart BIOS をサポート</li> </ul>
サポート CD	<ul style="list-style-type: none"> <li>- ドライバー、ユーティリティ、アンチウィルスソフトウェアハードウェア (体験版)、Google Chrome Browser およびToolbar、Start8( 30 日トライアル版)</li> </ul>
モニター	<ul style="list-style-type: none"> <li>- CPU温度検知</li> <li>- マザーボード温度検知</li> <li>- CPU/シャーシ/電源ファンタコメータ</li> <li>- CPUクワイエットファン</li> <li>- ケースオープン検出</li> <li>- 電源モニター: +12V, +5V, +3.3V, Vcore</li> </ul>
OS	<ul style="list-style-type: none"> <li>- Microsoft® Windows®7 / 7 64-bit / Vista™ / Vista™ 64-bit / XP / XP 64-bit compliant</li> </ul>
認証	<ul style="list-style-type: none"> <li>- FCC, CE 認証済み</li> <li>- ErP/EuP 対応( ErP/EuP 対応の電源装置が必要です)</li> </ul>

\* 製品の詳細については、<http://www.asrock.com> を御覧ください。

## 主板规格

架构	<ul style="list-style-type: none"> <li>- Micro ATX 规格</li> <li>- CPU 供电采用固态电容</li> </ul>
处理器	<ul style="list-style-type: none"> <li>- 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</li> <li>- FSB1333/1066/800/533MHz CPU</li> <li>- 支持 Hyper-Threading 超线程技术</li> <li>- 支持自由超频技术</li> <li>- 支持 EM64T CPU</li> </ul>
芯片组	<ul style="list-style-type: none"> <li>- 北桥: Intel® G41</li> <li>- 南桥: Intel® ICH7</li> </ul>
系统内存	<ul style="list-style-type: none"> <li>- 双通道 DDR3/DDR2 内存技术</li> <li>- 配备 2 个 DDR3 DIMM 插槽</li> <li>- 支持 DDR3 1333(超频)/1066/800 non-ECC、un-buffered 内存</li> <li>- 最高支持 8GB 系统容量</li> <li>- 配备 2 个 DDR2 DIMM 插槽</li> <li>- 支持 DDR2 800/667/533 non-ECC、un-buffered 内存</li> <li>- 最高支持 8GB 系统容量</li> </ul>
扩展插槽	<ul style="list-style-type: none"> <li>- 1 x PCI Express x16 插槽</li> <li>- 1 x PCI Express x1 插槽</li> <li>- 2 x PCI 插槽</li> </ul>
板载显卡	<ul style="list-style-type: none"> <li>- Intel® Graphics Media Accelerator X4500 显示核心</li> <li>- Pixel Shader 4.0 技术, DX10 显卡</li> <li>- 最大共享内存 1759MB</li> <li>- 支持 D-Sub, 最高分辨率达 2048x1536 @ 75Hz</li> </ul>
音效	<ul style="list-style-type: none"> <li>- 5.1 声道高保真音频(Realtek ALC662 音频编解码器)</li> <li>- 支持防突波(华擎全防护)</li> </ul>
局域网	<ul style="list-style-type: none"> <li>- PCIE x1 千兆网卡 10/100/1000 Mb/s</li> <li>- Realtek RTL8111GR</li> <li>- 支持远端开机功能(Wake-On-WAN)</li> <li>- 支持网络唤醒功能(Wake-On-LAN)</li> <li>- 支持防雷击/防ESD静电(华擎全防护)</li> <li>- 支持网线侦测</li> <li>- 支持 Energy Efficient Ethernet 802.3az</li> <li>- 支持 PXE</li> </ul>

后面板输入/输出接口	<ul style="list-style-type: none"> <li>- 1 个 PS/2 鼠标接口</li> <li>- 1 个 PS/2 键盘接口</li> <li>- 1 个 串行端口:COM1</li> <li>- 1 个 VGA 接口</li> <li>- 4 个 USB 2.0 接口(支持防ESD 静电(华擎全防护))</li> <li>- 1 个 RJ-45 局域网接口与 LED 指示灯(ACT/LINK LED 和 SPEED LED)</li> <li>- 高保真音频插孔: 音频输出/输入/ 麦克风</li> </ul>
存储	<ul style="list-style-type: none"> <li>- 4 x SATA2 3.0Gb/s 连接头 (不支持RAID 和 Hot-Plug)</li> </ul>
连接头	<ul style="list-style-type: none"> <li>- 1 x ATA100 IDE 插座 (最高支持 2 个 IDE 驱动器)</li> <li>- 1 x 软驱接口</li> <li>- 1 x 打印机端口接针</li> <li>- 1 x 机箱开启警告功能接针</li> <li>- 1 x CPU 风扇接头(4-pin)</li> <li>- 1 x 机箱风扇接头(4-pin)</li> <li>- 1 x 电源风扇接头(3-pin)</li> <li>- 1 x 24 针 ATX 电源接头</li> <li>- 1 x 4 针 12V 电源接头</li> <li>- 1 x 前置音频面板接头</li> <li>- 2 x USB 2.0 接头(支持 4 USB 2.0 接口)(支持防ESD 静电(华擎全防护))</li> </ul>
BIOS	<ul style="list-style-type: none"> <li>- 8Mb AMI Legal BIOS</li> <li>- 支持即插即用 (Plug and Play,PnP)</li> <li>- 符合 ACPI 1.1, 支持唤醒与自动开机 (Wake Up Events)</li> <li>- 支持免跳线</li> <li>- VCCM, NB, VTT, GTLRef 电压多功能调节器</li> <li>- 支持 Smart BIOS</li> </ul>
支持光盘	<ul style="list-style-type: none"> <li>- 驱动程序, 工具软件, 杀毒软件 (试用版), Chrome 谷歌浏览器和工具栏, Start8 (30 天试用版)</li> </ul>
硬件监控器	<ul style="list-style-type: none"> <li>- CPU 温度侦测</li> <li>- 主板温度侦测</li> <li>- CPU/ 机箱/ 电源风扇转速计</li> <li>- CPU 静音风扇</li> <li>- 机箱开启侦测</li> <li>- 电压范围: +12V, +5V, +3.3V, 核心电压</li> </ul>
操作系统	<ul style="list-style-type: none"> <li>- Microsoft® Windows® 7/7 64 位元/Vista™/Vista™ 64 位元/XP/XP 64 位元</li> </ul>
认证	<ul style="list-style-type: none"> <li>- FCC, CE</li> <li>- 支持 ErP/EuP (需要同时使用支持 ErP/EuP 的电源供应器)</li> </ul>

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

### 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。

## 主機板規格

架構	<ul style="list-style-type: none"> <li>- Micro ATX 規格</li> <li>- CPU 供電電路固態電容</li> </ul>
處理器	<ul style="list-style-type: none"> <li>- LGA 775 支援 Intel® Core™ 2 Extreme / Core™ 2 Quad / Core™ 2 Duo / Pentium® Dual Core / Celeron® Dual Core / Celeron®, 支援 Penryn Quad Core Yorkfield 和 Dual Core Wolfdale 處理器</li> <li>- FSB1333/1066/800/533MHz CPU</li> <li>- 支援 Hyper-Threading 技術</li> <li>- 支援非同步超頻技術</li> <li>- 支援 EM64T CPU</li> </ul>
晶片組	<ul style="list-style-type: none"> <li>- 北橋: Intel® G41</li> <li>- 南橋: Intel® ICH7</li> </ul>
系統記憶體	<ul style="list-style-type: none"> <li>- 支援雙通道記憶體技術</li> <li>- 2 個 DDR3 DIMM 插槽</li> <li>- 支援 DDR3 1333(OC)/1066/800 non-ECC、un-buffered 記憶體</li> <li>- 最高支援 8GB 系統容量</li> <li>- 2 個 DDR2 DIMM 插槽</li> <li>- 支援 DDR2 800/667/533 non-ECC、un-buffered 記憶體</li> <li>- 最高支援 8GB 系統容量</li> </ul>
擴充插槽	<ul style="list-style-type: none"> <li>- 1 x PCI Express x16 插槽</li> <li>- 1 x PCI Express x1 插槽</li> <li>- 2 x PCI 插槽</li> </ul>
內建顯示	<ul style="list-style-type: none"> <li>- Intel® Graphics Media Accelerator X4500</li> <li>- Pixel Shader 4.0 技術, DX10 顯示</li> <li>- 最大共享記憶體 1759MB</li> <li>- 支援 D-Sub, 最高解析度達 2048x1536 @ 75Hz</li> </ul>
音效	<ul style="list-style-type: none"> <li>- 5.1 聲道高清晰音效(Realtek ALC662 音效編解碼器)</li> <li>- 支援防突波(華擎全防護)</li> </ul>
網路功能	<ul style="list-style-type: none"> <li>- PCIE x1 Gigabit LAN 10/100/1000 Mb/s</li> <li>- Realtek RTL8111GR</li> <li>- 支援遠端開機 (Wake-On-WAN)</li> <li>- 支援網路喚醒 (Wake-On-LAN)</li> <li>- 支援防突波(華擎全防護)</li> <li>- 支援網路線偵測功能</li> <li>- 支援 Energy Efficient Ethernet 802.3az</li> <li>- 支援 PXE</li> </ul>

Rear Panel I/O (後背板輸入/輸出接口)	<ul style="list-style-type: none"> <li>- 1 個 PS/2 滑鼠接口</li> <li>- 1 個 PS/2 鍵盤接口</li> <li>- 1 個序列埠</li> <li>- 1 個 VGA 接口</li> <li>- 4 個 USB 2.0 接口(支援防突波(華擎全防護))</li> <li>- 1 個 RJ-45 區域網接口與 LED 指示燈(ACT/LINK LED 和 SPEED LED)</li> <li>- 高清晰音效插孔：音效輸出/輸入/麥克風</li> </ul>
儲存裝置	- 4 x SATA2 3.0Gb/s 接頭 (不支援 RAID 和 Hot-Plug)
接頭	<ul style="list-style-type: none"> <li>- 1 x ATA100 IDE 插座 (最高支持 2 個 IDE 驅動器)</li> <li>- 1 x 磁碟機接口</li> <li>- 1 x 印表機接針</li> <li>- 1 x 機殼開啟警告功能接頭</li> <li>- 1 x CPU 風扇接頭(4 針)</li> <li>- 1 x 機箱風扇接頭(4 針)</li> <li>- 1 x 電源風扇接頭(3 針)</li> <li>- 1 x 24 針 ATX 電源接頭</li> <li>- 1 x 4 針 12V 電源接頭</li> <li>- 1 x 前置音效接頭</li> <li>- 2 x USB 2.0 接口 (支援 4 個 USB 2.0 接口)(支援防突波(華擎全防護))</li> </ul>
BIOS	<ul style="list-style-type: none"> <li>- 8Mb AMI BIOS</li> <li>- 支援即插即用 (Plug and Play, PnP)</li> <li>- ACPI 1.1 電源管理支援喚醒功能</li> <li>- 支援 jumperfree 免跳線模式</li> <li>- VCCM, NB, VTT, GTLRef 電壓多功能調節器</li> <li>- 支持 Smart BIOS (智能 BIOS)</li> </ul>
支援光碟	- 驅動程式, 工具軟體, 防毒軟體 (試用版), Google Chrome Browser 和 Toolbar, Start8 (30 天試用)
硬體監控器	<ul style="list-style-type: none"> <li>- CPU 溫度偵測</li> <li>- 主機板溫度偵測</li> <li>- CPU/ 機箱 / 電源風扇轉速計</li> <li>- CPU 靜音風扇</li> <li>- 機殼開啟偵測</li> <li>- 電壓範圍：+12V, +5V, +3.3V, 核心電壓</li> </ul>
操作系統	- Microsoft® Windows® 7/7 64 位元/Vista™/ Vista™ 64 位元/XP/XP 64 位元
認證	<ul style="list-style-type: none"> <li>- FCC, CE</li> <li>- 支援 ErP/EuP(需要同時使用支援 ErP/EuP 的電源供應器)</li> </ul>

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

## Spesifikasi

<b>Podium</b>	<ul style="list-style-type: none"><li>- Faktor Form Mikro ATX</li><li>- Kapasitor Solid untuk daya CPU</li></ul>
<b>CPU</b>	<ul style="list-style-type: none"><li>- LGA 775 untuk Intel® Core™ 2 Extreme / Core™ 2 Quad / Core™ 2 Duo / Pentium® Dual Core / Celeron® Dual Core / Celeron® mendukung prosesor Penryn Quad Core Yorkfield dan Dual Core Wolfdale</li><li>- FSB1333/1066/800/533 MHz</li><li>- Menggunakan Teknologi Hyper-Threading</li><li>- Menggunakan Teknologi Untied Overclocking</li><li>- Menggunakan CPU EM64T</li></ul>
<b>Grup Chip</b>	<ul style="list-style-type: none"><li>- Jembatanutara: Intel® G41</li><li>- Jembatanselatan: Intel® ICH7</li></ul>
<b>Ingatan</b>	<ul style="list-style-type: none"><li>- Teknologi ingatan DDR3/DDR2 dwisaluran</li><li>- 2 x Alur DDR3 DIMM</li><li>- Menggunakan DDR3 1333(OC)/1066/800</li><li>- Kapasitas paling banyak: 8GB</li><li>- 2 x Alur DDR2 DIMM</li><li>- Menggunakan DDR3 800/667/533</li><li>- Kapasitas paling banyak: 8GB</li></ul>
<b>Alur Ekspansi</b>	<ul style="list-style-type: none"><li>- 1 x PCI Express x16 slot</li><li>- 1 x PCI Express x1 slot</li><li>- 2 x Alur PCI</li></ul>
<b>Diagram</b>	<ul style="list-style-type: none"><li>- Intel® Graphics Media Accelerator X4500</li><li>- Pixel Shader 4.0, DirectX 10</li><li>- Ingatan sama Max. 1759MB</li><li>- Mendukung D-Sub dengan resolusi maksimal hingga 2048x1536 @ 75Hz</li></ul>
<b>Audio</b>	<ul style="list-style-type: none"><li>- 5.1 CH HD Audio (Realtek ALC662 Audio Codec)</li><li>- Mendukung Perlindungan Tegangan Penuh</li></ul>
<b>LAN</b>	<ul style="list-style-type: none"><li>- PCIE x1 Gigabit LAN 10/100/1000 Mb/s</li><li>- Realtek RTL8111GR</li><li>- Menggunakan Wake-On-WAN</li><li>- Menggunakan Wake-On-LAN</li><li>- Mendukung Perlindungan Tegangan Penuh</li><li>- Mendukung Deteksi Kabel LAN</li><li>- Mendukung Energy Efficient Ethernet 802.3az</li><li>- Menggunakan PXE</li></ul>
<b>Papan Belakang I/O</b>	<ul style="list-style-type: none"><li>- 1 x Port Mouse PS/2</li><li>- 1 x Port Keyboard PS/2</li></ul>

	<ul style="list-style-type: none"> <li>- 1 x Serial Port: COM1</li> <li>- 1 x Port VGA</li> <li>- 4 x Port USB 2.0 siap-dipakai (Mendukung Perlindungan Tegangan Penuh)</li> <li>- 1 x RJ-45 LAN Port LED (ACT/LINK LED dan SPEED LED)</li> <li>- HD Audio Jack: Line in/Penyuaran Depan/mikropon</li> </ul>
<b>Penyimpanan</b>	<ul style="list-style-type: none"> <li>- 4 x penghubung SATA2 3.0 Gb/s (Tanpa penggunaan RAID dan fungsi "Hot Plug")</li> </ul>
<b>Penghubung</b>	<ul style="list-style-type: none"> <li>- 1 x Penghubung ATA100 IDE (menggunakan perlengkapan 2 x IDE)</li> <li>- 1 x Penghubung Floppy</li> <li>- 1 x print port header</li> <li>- 1 x Chassis Intrusion header</li> <li>- 1 x Penghubung KIPAS CPU (4 pin)</li> <li>- 1 x Penghubung KIPAS Casis (4 pin)</li> <li>- 1 x Penghubung KIPAS power (3 pin)</li> <li>- 1 x Penghubung power 24 pin ATX</li> <li>- 1 x Penghubung power 4 pin 12V</li> <li>- 1 x Penghubung audio panel dapan</li> <li>- 2 x USB 2.0 header (menggunakan 4 port USB 2.0) (Mendukung Perlindungan Tegangan Penuh)</li> </ul>
<b>Ciri-ciri BIOS</b>	<ul style="list-style-type: none"> <li>- 8Mb AMI Legal BIOS</li> <li>- Menggunakan "Plug and Play"</li> <li>- ACPI 1.1 Compliance Wake Up Events</li> <li>- Menggunakan jumperfree</li> <li>- Penyesuaian berbagai tegangan VCCM, NB, VTT, GTLRef</li> <li>- Menggunakan Smart BIOS</li> </ul>
<b>Sokongan CD</b>	<ul style="list-style-type: none"> <li>- Driver, Utilitas, Perangkat Lunak Anti Virus (Versi Percobaan), Google Chrome Browser dan Toolbar, Start8 (uji coba 30 hari)</li> </ul>
<b>Penjaga Hardware</b>	<ul style="list-style-type: none"> <li>- Perasa Suhu CPU</li> <li>- Perasa Suhu Casis</li> <li>- Pengukur Kipas CPU/Casis/Power</li> <li>- Kipas diam CPU</li> <li>- Deteksi CASING TERBUKA</li> <li>- Penjagaan voltasi: +12V, +5V, +3.3V, Vcore</li> </ul>
<b>OS</b>	<ul style="list-style-type: none"> <li>- dapat digunakan Microsoft® Windows® 7 / 7 64-bit / Vista™ / Vista™ 64-bit / XP / XP 64-bit</li> </ul>
<b>Sertifikasi</b>	<ul style="list-style-type: none"> <li>- FCC, CE</li> <li>- ErP/EuP Ready (memerlukan catu daya ErP/EuP ready)</li> </ul>





## Contact Information

If you need to contact ASRock or want to know more about ASRock, you're welcome to visit ASRock's website at <http://www.asrock.com>; or you may contact your dealer for further information. For technical questions, please submit a support request form at <http://www.asrock.com/support/tsd.asp>

### **ASRock Incorporation**

2F., No.37, Sec. 2, Jhongyang S. Rd., Beitou District,  
Taipei City 112, Taiwan (R.O.C.)

### **ASRock EUROPE B.V.**

Bijsterhuizen 3151  
6604 LV Wijchen  
The Netherlands

Phone: +31-24-345-44-33

Fax: +31-24-345-44-38

### **ASRock America, Inc.**

13848 Magnolia Ave, Chino, CA91710  
U.S.A.

Phone: +1-909-590-8308

Fax: +1-909-590-1026

