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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.

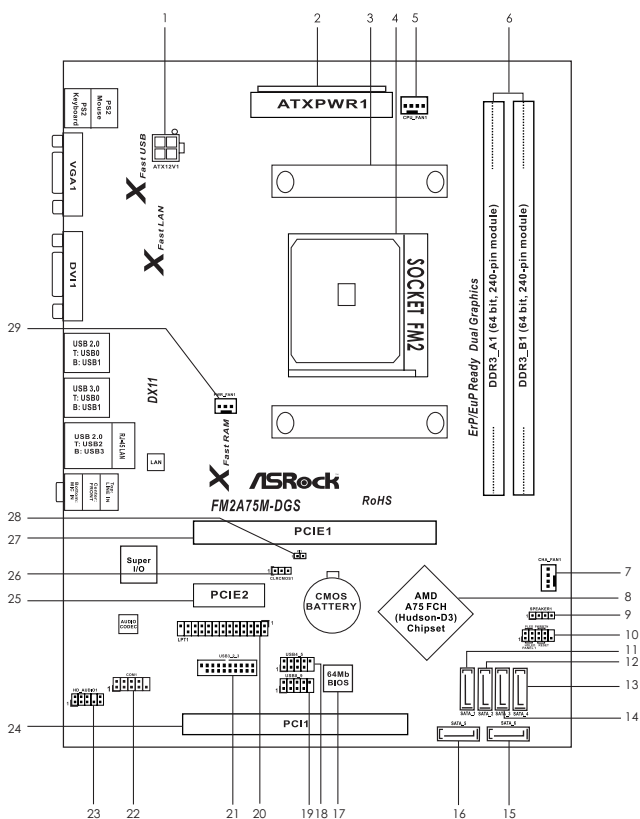
"Perchlorate Material-special handling may apply, see [www.dtsc.ca.gov/hazardouswaste/perchlorate](http://www.dtsc.ca.gov/hazardouswaste/perchlorate)"



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

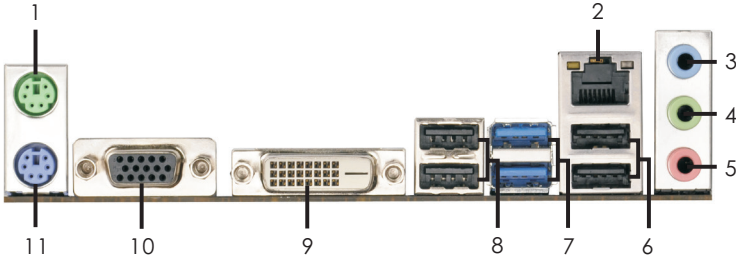
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# Motherboard Layout



- |    |   |    |                                      |
|----|---|----|--------------------------------------|
| 1  | ATX 12V Power Connector (ATX12V1)                               | 16 | SATA3 Connector (SATA_5)             |
| 2  | ATX Power Connector (ATXPWR1)                                   | 17 | SPI Flash Memory (64Mb)              |
| 3  | CPU Heatsink Retention Module                                   | 18 | USB 2.0 Header (USB4_5)              |
| 4  | CPU Socket  | 19 | USB 2.0 Header (USB8_9)              |
| 5  | CPU Fan Connector (CPU_FAN1)                                    | 20 | Print Port Header (LPT1)             |
| 6  | 2 x 240-pin DDR3 DIMM Slots<br>(Dual Channel: DDR3_A1, DDR3_B1) | 21 | USB 3.0 Header (USB3_2_3)            |
| 7  | Chassis Fan Connector (CHA_FAN1)                                | 22 | COM Port Header (COM1)               |
| 8  | Southbridge Controller  | 23 | Front Panel Audio Header (HD_AUDIO1) |
| 9  | Chassis Speaker Header (SPEAKER1)                               | 24 | PCI Slot (PCI1)                      |
| 10 | System Panel Header (PANEL1)                                    | 25 | PCI Express 2.0 x1 Slot (PCIE2)      |
| 11 | SATA3 Connector (SATA_1)  | 26 | Clear CMOS Jumper (CLR_CMOS1)        |
| 12 | SATA3 Connector (SATA_2)  | 27 | PCI Express 2.0 x16 Slot (PCIE1)     |
| 13 | SATA3 Connector (SATA_4)  | 28 | Chassis Intrusion Header (CI1)       |
| 14 | SATA3 Connector (SATA_3)  | 29 | Power Fan Connector (PWR_FAN1)       |
| 15 | SATA3 Connector (SATA_6)  |    |                                      |

# I/O Panel

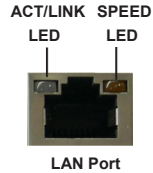


- 1 PS/2 Mouse Port (Green)
- \* 2 LAN RJ-45 Port
- 3 Line In (Light Blue)
- \*\* 4 Front Speaker (Lime)
- 5 Microphone (Pink)
- \*\*\* 6 USB 2.0 Ports (USB23)
- 7 USB 3.0 Ports (USB3\_01)
- \*\*\* 8 USB 2.0 Ports (USB01)
- 9 DVI-D Port (DVI1)
- 10 D-Sub Port (VGA1)
- 11 PS/2 Keyboard Port (Purple)

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

### LAN Port LED Indications

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



\*\* 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. 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.

\*\*\* It is recommended to install the USB Keyboard/Mouse cable to USB 2.0 ports (USB01 or USB23) instead of USB 3.0 ports.

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# 1. Introduction

Thank you for purchasing ASRock **FM2A75M-DGS 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 **FM2A75M-DGS R2.0** Motherboard (Micro ATX Form Factor)

ASRock **FM2A75M-DGS R2.0** Quick Installation Guide

ASRock **FM2A75M-DGS R2.0** Support CD

2 x Serial ATA (SATA) Data Cables (Optional)

1 x I/O Panel Shield



### **ASRock Reminds You...**

To get better performance in Windows® 8 / 8 64-bit / 7 / 7 64-bit / Vista™ / Vista™ 64 bit, it is recommended to set the BIOS option in Storage Configuration to AHCI mode.

## 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>- Support for Socket FM2 100W processors</li> <li>- Supports AMD's Cool 'n' Quiet™ Technology</li> <li>- UMI-Link GEN2</li> </ul>
<b>Chipset</b>	<ul style="list-style-type: none"> <li>- AMD A75 FCH (Hudson-D3)</li> </ul>
<b>Memory</b>	<ul style="list-style-type: none"> <li>- Dual Channel DDR3 Memory Technology</li> <li>- 2 x DDR3 DIMM slots</li> <li>- Support DDR3 1866/1600/1333/1066 non-ECC, un-buffered memory (see <b>CAUTION 1</b>)</li> <li>- Max. capacity of system memory: 32GB (see <b>CAUTION 2</b>)</li> <li>- Supports Intel® Extreme Memory Profile (XMP) 1.3 / 1.2</li> <li>- Supports AMD Memory Profile (AMP)</li> </ul>
<b>Expansion Slot</b>	<ul style="list-style-type: none"> <li>- 1 x PCI Express 2.0 x16 slot (PCI-E1 @ x16 mode)</li> <li>- 1 x PCI Express 2.0 x1 slot</li> <li>- 1 x PCI slot</li> <li>- Supports AMD Dual Graphics (see <b>CAUTION 3</b>)</li> </ul>
<b>Graphics</b>	<ul style="list-style-type: none"> <li>- AMD Radeon HD 7000 graphics</li> <li>- DirectX 11, Pixel Shader 5.0</li> <li>- Max. shared memory 2GB</li> <li>- Dual VGA Output: support DVI and D-Sub ports by independent display controllers</li> <li>- Supports Dual-link DVI with max. resolution up to 2560x1600 @ 75Hz</li> <li>- Supports D-Sub with max. resolution up to 1920x1600 @ 60Hz</li> <li>- Supports AMD Steady Video™ 2.0: New video post processing capability for automatic jitter reduction on home/online video</li> <li>- Supports HDCP function with DVI port</li> <li>- Supports Full HD 1080p Blu-ray (BD) / HD-DVD playback with DVI port</li> </ul>
<b>Audio</b>	<ul style="list-style-type: none"> <li>- 5.1 CH HD Audio (Realtek ALC662 Audio Codec)</li> </ul>
<b>LAN</b>	<ul style="list-style-type: none"> <li>- PCIe x1 Gigabit LAN 10/100/1000 Mb/s</li> <li>- Realtek RTL8111E</li> <li>- Supports Wake-On-LAN</li> <li>- Supports LAN Cable Detection</li> <li>- Supports Energy Efficient Ethernet 802.3az</li> <li>- Supports PXE</li> </ul>

<b>Rear Panel I/O</b>	<p>I/O Panel</p> <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 D-Sub Port</li> <li>- 1 x DVI-D Port</li> <li>- 4 x Ready-to-Use USB 2.0 Ports</li> <li>- 2 x Ready-to-Use USB 3.0 Ports</li> <li>- 1 x RJ-45 LAN Port with LED (ACT/LINK LED and SPEED LED)</li> <li>- HD Audio Jack: Line in / Front Speaker / Microphone</li> </ul>
<b>SATA3</b>	<ul style="list-style-type: none"> <li>- 6 x SATA3 6.0 Gb/s connectors, support RAID (RAID 0, RAID 1 and RAID 10), NCQ, AHCI and “Hot Plug” functions</li> </ul>
<b>USB 3.0</b>	<ul style="list-style-type: none"> <li>- 2 x Rear USB 3.0 ports, support USB 1.1/2.0/3.0 up to 5Gb/s</li> <li>- 1 x Front USB 3.0 header (supports 2 USB 3.0 ports), supports USB 1.1/2.0/3.0 up to 5Gb/s</li> </ul>
<b>Connector</b>	<ul style="list-style-type: none"> <li>- 6 x SATA3 6.0Gb/s connectors</li> <li>- 1 x Print port header</li> <li>- 1 x COM 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>- 24 pin ATX power connector</li> <li>- 4 pin 12V power connector</li> <li>- Front panel audio connector</li> <li>- 2 x USB 2.0 headers (support 4 USB 2.0 ports)</li> <li>- 1 x USB 3.0 header (supports 2 USB 3.0 ports)</li> </ul>
<b>BIOS Feature</b>	<ul style="list-style-type: none"> <li>- 64Mb AMI UEFI Legal BIOS with GUI support</li> <li>- Supports “Plug and Play”</li> <li>- ACPI 1.1 Compliance Wake Up Events</li> <li>- Supports jumperfree</li> <li>- SMBIOS 2.3.1 Support</li> <li>- DRAM, VDDP, VDDR, SB Voltage Multi-adjustment</li> </ul>
<b>Support CD</b>	<ul style="list-style-type: none"> <li>- Drivers, Utilities, AntiVirus Software (Trial Version), CyberLink MediaEspresso 6.5 Trial, Google Chrome Browser and Toolbar</li> </ul>
<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/Chassis Quiet Fan</li> <li>- CPU/Chassis Fan Multi-Speed Control</li> </ul>

	<ul style="list-style-type: none"> <li>- CASE OPEN detection</li> <li>- Voltage Monitoring: +12V, +5V, +3.3V, Vcore</li> </ul>
<b>OS</b>	<ul style="list-style-type: none"> <li>- Microsoft® Windows® 8 / 8 64-bit / 7 / 7 64-bit / Vista™ / Vista™ 64-bit compliant</li> </ul>
<b>Certifications</b>	<ul style="list-style-type: none"> <li>- FCC, CE, WHQL</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**

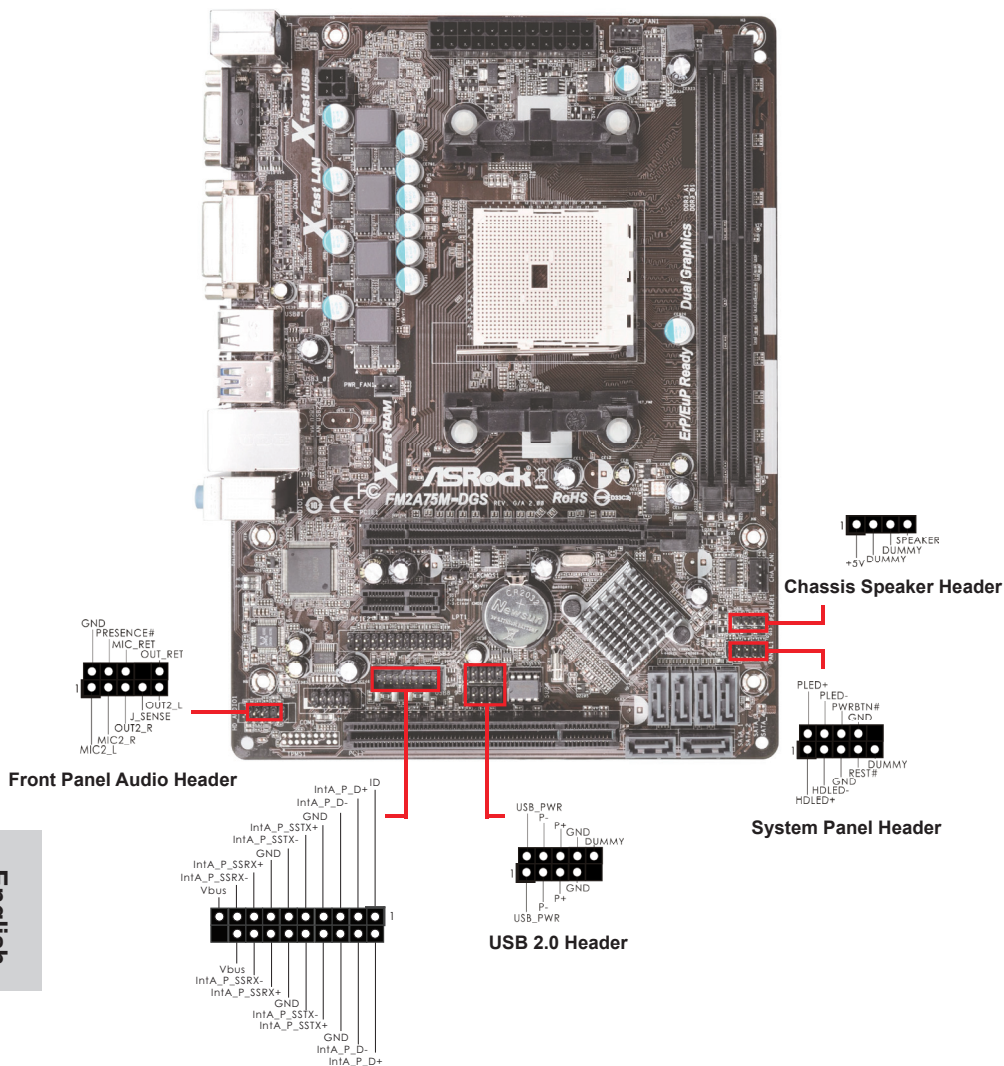
Please realize that there is a certain risk involved with overclocking, including adjusting the setting in the BIOS, applying Untied Overclocking Technology, or using third-party overclocking tools. Overclocking may affect your system's stability, or even cause damage to the components and devices of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

### **CAUTION!**

1. Whether 1866/1600MHz memory speed is supported depends on the CPU you adopt. If you want to adopt DDR3 1866/1600 memory module on this motherboard, please refer to the memory support list on our website for the compatible memory modules.  
ASRock website <http://www.asrock.com>
2. Due to the operating system limitation, the actual memory size may be less than 4GB for the reservation for system usage under Windows® 8 / 7 / Vista™. For Windows® 64-bit OS with 64-bit CPU, there is no such limitation. You can use ASRock XFast RAM to utilize the memory that Windows® cannot use.
3. For the discrete GPUs which support Dual Graphics technology, please refer to <http://www.amd.com/us/products/technologies/dual-graphics/Pages/dual-graphics.aspx#3> for details.

### 1.3 Pin Header Easy Installation Guide

ASRock motherboard is equipped with pin headers with obvious colors which indicate you to recognize the crucial headers more easily. Please refer to below illustrations for the pin definition of onboard headers. If you want to have more information about the usage of these headers, please refer to “Jumpers Setup” and “Onboard Headers and Connectors” for details.

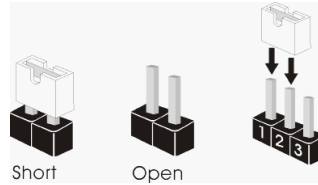




English



## 1.4 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
Clear CMOS Jumper (CLR CMOS1) (see p.2, No. 26)	 <b>1_2</b> Default	 <b>2_3</b> Clear CMOS

Note: CLR CMOS1 allows you to clear the data in CMOS. 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 CLR CMOS1 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. Please be noted that the password, date, time, user default profile, 1394 GUID and MAC address will be cleared only if the CMOS battery is removed.



If you clear the CMOS, the case open may be detected. Please adjust the BIOS option “Clear Status” to clear the record of previous chassis intrusion status.

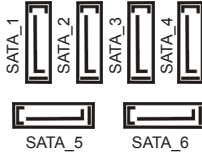
## 1.5 Onboard Headers and Connectors



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!

### Serial ATA3 Connectors

- (SATA\_1: see p. 2, No. 11)
- (SATA\_2: see p. 2, No. 12)
- (SATA\_3: see p. 2, No. 14)
- (SATA\_4: see p. 2, No. 13)
- (SATA\_5: see p. 2, No. 16)
- (SATA\_6: see p. 2, No. 15)



These six Serial ATA3 (SATA3) connectors support SATA data cables for internal storage devices. The current SATA3 interface allows up to 6.0 Gb/s data transfer rate.

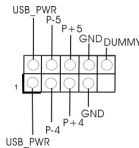
### Serial ATA (SATA) Data Cable (Optional)



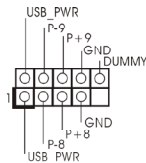
Either end of the SATA data cable can be connected to the SATA3 hard disk or the SATA3 connector on this motherboard.

### USB 2.0 Headers

- (9-pin USB4\_5)
- (see p. 2, No. 18)



- (9-pin USB8\_9)
- (see p. 2, No. 19)

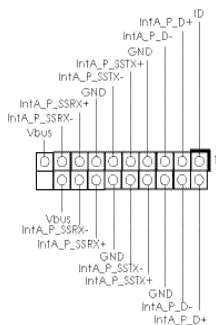


Besides four default USB 2.0 ports on the I/O panel, there are two USB 2.0 headers on this motherboard. Each USB 2.0 header can support two USB 2.0 ports.

## USB 3.0 Header

(19-pin USB3\_2\_3)

(see p. 2, No. 21)

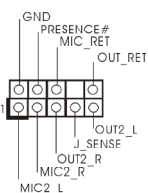


Besides two default USB 3.0 ports on the I/O panel, there is one USB 3.0 header on this motherboard. This USB 3.0 header can support two USB 3.0 ports.

## Front Panel Audio Header

(9-pin HD\_AUDIO1)

(see p. 2, No. 23)



This is an interface for the 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. To activate the front mic.

For Windows® 8 / 8 64-bit / 7 / 7 64-bit / Vista™ / Vista™ 64-bit OS:  
Go to the "FrontMic" Tab in the Realtek Control panel. Adjust "Recording Volume".

## Chassis Intrusion Header

(2-pin C11)

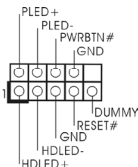
(see p.2, No. 28)



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.

## System Panel Header

(9-pin PANEL1)  
(see p.2 No. 10)



This header accommodates several system front panel functions.



Connect the power switch, reset switch and system status indicator on the chassis to this header according to the pin assignments below. Note the positive and negative pins before connecting the cables.

### PWRBTN (Power Switch):

Connect to the power switch on the chassis front panel. You may configure the way to turn off your system using the power switch.

### RESET (Reset Switch):

Connect to the reset switch on the chassis front panel. Press the reset switch to restart the computer if the computer freezes and fails to perform a normal restart.

### PLED (System Power LED):

Connect to the power status indicator on the chassis front panel. The LED is on when the system is operating. The LED keeps blinking when the system is in S1 sleep state. The LED is off when the system is in S3/S4 sleep state or powered off (S5).

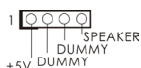
### HDLED (Hard Drive Activity LED):

Connect to the hard drive activity LED on the chassis front panel. The LED is on when the hard drive is reading or writing data.

The front panel design may differ by chassis. A front panel module mainly consists of power switch, reset switch, power LED, hard drive activity LED, speaker and etc. When connecting your chassis front panel module to this header, make sure the wire assignments and the pin assignments are matched correctly.

## Chassis Speaker Header

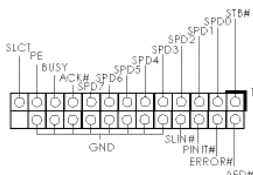
(4-pin SPEAKER 1)  
(see p.2 No. 9)



Please connect the chassis speaker to this header.

## Print Port Header

(25-pin LPT1)  
(see p.2 No. 20)



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

## Chassis and Power Fan Connectors

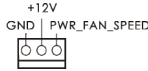
(4-pin CHA\_FAN1)

(see p.2 No. 7)



(3-pin PWR\_FAN1)

(see p.2 No. 29)

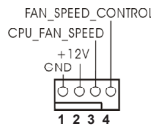


Please connect the fan cables to the fan connectors and match the black wire to the ground pin. CHA\_FAN1 fan speed can be controlled through UEF1 or AXTU.

## CPU Fan Connectors

(4-pin CPU\_FAN1)

(see p.2 No. 5)



Please connect the CPU fan cable to the 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 ←

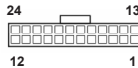
3-Pin Fan Installation



## ATX Power Connector

(24-pin ATXPWR1)

(see p.2 No. 2)



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)

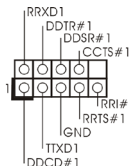


Please connect an ATX 12V power supply to this connector.

## Serial port Header

(9-pin COM1)

(see p.2 No.22)



This COM1 header supports a serial port module.

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## **2. BIOS Information**

The Flash Memory on the motherboard stores BIOS Setup Utility. When you start up the computer, please press <F2> or <Del> 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 pre-determined 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: 8 / 8 64-bit / 7 / 7 64-bit / Vista™ / Vista™ 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.

## Spezifikationen

<b>Plattform</b>	<ul style="list-style-type: none"> <li>- Micro ATX-Formfaktor</li> <li>- Festkondensator für CPU-Leistung</li> </ul>
<b>CPU</b>	<ul style="list-style-type: none"> <li>- Unterstützt Sockel-FM2-100-W-Prozessoren</li> <li>- Unterstützt Cool 'n' Quiet™-Technologie von AMD</li> <li>- UMI-Link-GEN2</li> </ul>
<b>Chipsatz</b>	<ul style="list-style-type: none"> <li>- AMD A75 FCH (Hudson-D3)</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 1866/1600/1333/1066 non-ECC, ungepufferter Speicher</li> <li>- Max. Kapazität des Systemspeichers: 32GB</li> <li>- Unterstützt Intel® Extreme Memory Profile (XMP)1.3/1.2</li> <li>- Unterstützt AMD Memory Profile (AMP)</li> </ul>
<b>Erweiterungssteckplätze</b>	<ul style="list-style-type: none"> <li>- 1 x PCI-Express-2.0-x16-Steckplätze (PCI-E1: x16-Modus)</li> <li>- 1 x PCI Express 2.0 x1-Steckplätze</li> <li>- 1 x PCI -Steckplätze</li> <li>- Unterstützt AMD duale Grafikkarten</li> </ul>
<b>Onboard-VGA</b>	<ul style="list-style-type: none"> <li>- AMD Radeon HD 7000-Grafik</li> <li>- DirectX 11, Pixel Shader 5.0</li> <li>- Maximal gemeinsam genutzter Speicher 2GB</li> <li>- Doppel-VGA Ausgabe: unterstützt DVI und D-Sub Ports durch unabhängige Bildschirmanzeige Kontrolleure</li> <li>- Unterstützt Dual-link DVI mit einer maximalen Auflösung von 2560 x 1600 bei 75 Hz</li> <li>- Unterstützt D-Sub mit einer maximalen Auflösung von 1920 x 1600 bei 60 Hz</li> <li>- Unterstützt AMD Steady Video™ 2.0: Neuartige Funktion der Videonachbearbeitung für automatische Reduzierung von Bildschwankungen bei Heim-/Online-Videos</li> <li>- Unterstützt HDCP-Funktion mit DVI-Port</li> <li>- Unterstützt 1080p Blu-ray (BD) / HD-DVD-Wiedergabe mit DVI-Port</li> </ul>
<b>Audio</b>	<ul style="list-style-type: none"> <li>- 5.1 CH HD Audio (Realtek ALC662 Audio Codec)</li> </ul>
<b>LAN</b>	<ul style="list-style-type: none"> <li>- PCIe x1 Gigabit LAN 10/100/1000 Mb/s</li> <li>- Realtek RTL8111E</li> <li>- Unterstützt Wake-On-LAN</li> <li>- Unterstützt LAN-Kabelerkennung</li> <li>- Unterstützt energieeffizientes Ethernet 802.3az</li> <li>- Unterstützt PXE</li> </ul>

<b>E/A-Anschlüsse an der Rückseite</b>	<p>I/O Panel</p> <ul style="list-style-type: none"> <li>- 1 x PS/2-Mausanschluss</li> <li>- 1 x PS/2-Tastaturanschluss</li> <li>- 1 x D-Sub port</li> <li>- 1 x DVI-D port</li> <li>- 4 x Standard-USB 2.0-Anschlüsse</li> <li>- 2 x Standard-USB 3.0-Anschlüsse</li> <li>- 1 x RJ-45 LAN Port mit LED (ACT/LINK LED und SPEED LED)</li> <li>- HD Audiobuchse: Audioeingang / Lautsprecher vorne / Mikrofon</li> </ul>
<b>SATA3</b>	- 6 x SATA 3-Anschluss mit 6,0 Gb/s, unterstützt RAID-(RAID 0, RAID 1 und RAID 10), NCQ-, AHCI- und „Hot Plugging“-Funktionen
<b>USB3.0</b>	<ul style="list-style-type: none"> <li>- 2 x USB 3.0-Ports an der Rückseite, unterstützt USB 1.1/2.0/3.0 mit bis zu 5 Gb/s</li> <li>- 1 x USB 3.0-Header (unterstützt zwei USB 3.0-Ports) an der Vorderseite, unterstützt USB 1.1/2.0/3.0 mit bis zu 5 Gb/s</li> </ul>
<b>Anschlüsse</b>	<ul style="list-style-type: none"> <li>- 6 x SATA3 6,0 GB/s-Anschlüsse</li> <li>- 1 x Druckerport-Anschlussleiste</li> <li>- 1 x COM-Anschluss-Header</li> <li>- 1 x Verteiler für Gehäuseeindringversuche</li> <li>- 1 x CPUlüfter-Anschluss (4-pin)</li> <li>- 1 x Gehäuselüfter-Anschluss (4-pin)</li> <li>- 1 x Stromlüfter-Anschluss (3-pin)</li> <li>- 24-pin ATX-Netz-Header</li> <li>- 4-pin anschluss für 12V-ATX-Netzteil</li> <li>- Anschluss für Audio auf der Gehäusevorderseite</li> <li>- 2 x USB 2.0-Anschlüsse (Unterstützung 4 zusätzlicher USB 2.0-Anschlüsse)</li> <li>- 1 x USB 3.0-Anschlüsse (Unterstützung 2 zusätzlicher USB 3.0-Anschlüsse)</li> </ul>
<b>BIOS</b>	<ul style="list-style-type: none"> <li>- 64Mb AMIs Legal BIOS UEFI mit GUI-Unterstützung</li> <li>- Unterstützung für "Plug and Play"</li> <li>- ACPI 1.1-Weckfunktionen</li> <li>- JumperFree-Modus</li> <li>- SMBIOS 2.3.1</li> <li>- DRAM, VDDP, VDDR, SB Stromspannung Multianpassung</li> </ul>
<b>Support-CD</b>	- Treiber, Dienstprogramme, Antivirussoftware (Probeversion), CyberLink MediaEspresso 6.5-Testversion, Google Chrome Browser und Toolbar



<b>Hardware Monitor</b>	<ul style="list-style-type: none"> <li>- CPU-Temperatursensor</li> <li>- Motherboardtemperaturerkennung</li> <li>- Drehzahlmessung für CPU/Gehäuse/Stromlüfter</li> <li>- Geräuscharmer CPU/Gehäuselüfter</li> <li>- Mehrstufige Geschwindigkeitsteuerung für CPU-/Gehäuselüfter</li> <li>- GEHÄUSE 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® 8 / 8 64-Bit / 7 / 7 64-Bit / Vista™ / Vista™ 64-Bit</li> </ul>
<b>Zertifizierungen</b>	<ul style="list-style-type: none"> <li>- FCC, CE, WHQL</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>

## 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>- Support des unités centrales Socket FM2 100W</li> <li>- Supporte la technologie Cool 'n' Quiet™ d'AMD</li> <li>- UMI-Link GEN2</li> </ul>
<b>Chipsets</b>	<ul style="list-style-type: none"> <li>- AMD A75 FCH (Hudson-D3)</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 1866/1600/1333/1066 non-ECC, sans amortissement mémoire</li> <li>- Capacité maxi de mémoire système: 32GB</li> <li>- Prend en charge le profil de mémoire extrême Intel® (XMP) 1.3/1.2</li> <li>- Prend en charge le profil de mémoire AMD (AMP)</li> </ul>
<b>Slot d'extension</b>	<ul style="list-style-type: none"> <li>- 1 x slot PCI Express 2.0 x16 (PCIE1 à mode x16)</li> <li>- 1 x slot PCI Express 2.0 x1</li> <li>- 1 x slot PCI</li> <li>- Support de AMD Dual Graphics</li> </ul>
<b>VGA sur carte</b>	<ul style="list-style-type: none"> <li>- Graphiques à l'AMD Radeon HD 7000</li> <li>- DirectX 11, nuanceur de pixels 5.0</li> <li>- mémoire partagée max 2GB</li> <li>- Output de VGA Dual: supporter DVI et D-Sub ports par les contrôleurs de display indépendants</li> <li>- Prend en charge le Dual-link DVI avec une résolution maximale jusqu'à 2560x1600 @ 75Hz</li> <li>- Prend en charge le D-Sub avec une résolution maximale jusqu'à 1920x1600 @ 60Hz</li> <li>- Supporte AMD Steady Video™ 2.0: Nouvelle fonctionnalité de traitement post-vidéo pour réduction automatique des tremblements dans les clips vidéo en ligne/maison</li> <li>- Prise en charge de la fonction HDCP avec ports DVI</li> <li>- Supporter 1080p Blu-ray(BD)/ lecteur de HD-DVD avec ports DVI</li> </ul>
<b>Audio</b>	<ul style="list-style-type: none"> <li>- 5,1 CH HD Audio (Realtek ALC662 Audio Codec)</li> </ul>
<b>LAN</b>	<ul style="list-style-type: none"> <li>- PCIE x1 Gigabit LAN 10/100/1000 Mb/s</li> <li>- Realtek RTL8111E</li> <li>- Supporte du Wake-On-LAN</li> <li>- Prise en charge de la détection de câble LAN</li> </ul>

	<ul style="list-style-type: none"> <li>- Prend en charge la norme Energy Efficient Ethernet (Ethernet à efficacité énergétique) 802.3az</li> <li>- Supporte PXE</li> </ul>
<b>Panneau arrière</b>	<p>I/O Panel</p> <ul style="list-style-type: none"> <li>- 1 x port souris PS/2</li> <li>- 1 x port clavier PS/2</li> <li>- 1 x port D-Sub</li> <li>- 1 x port DVI-D</li> <li>- 4 x ports USB 2.0 par défaut</li> <li>- 2 x ports USB 3.0 par défaut</li> <li>- 1 x port LAN RJ-45 avec LED (ACT/LED CLIGNOTANTE et LED VITESSE)</li> <li>- Prise HD Audio: Entrée Ligne / Haut-parleur frontal / Microphone</li> </ul>
<b>SATA3</b>	<ul style="list-style-type: none"> <li>- 6 x connecteurs 6,0 Gb/s SATA3, prise en charge des fonctions RAID (RAID 0, RAID 1 et RAID 10), NCQ, AHCI et « Connexion à chaud »</li> </ul>
<b>USB 3.0</b>	<ul style="list-style-type: none"> <li>- 2 x ports USB3.0 à l'arrière, prennent en charge USB 1.1/2.0/3.0 jusqu'à 5 Gb/s</li> <li>- 1 x barrette USB3.0 en façade (prend en charge 2 ports USB 3.0), prend en charge USB 1.1/2.0/3.0 jusqu'à 5 Gb/s</li> </ul>
<b>Connecteurs</b>	<ul style="list-style-type: none"> <li>- 6 x connecteurs SATA3, prennent en charge un taux de transfert de données pouvant aller jusqu'à 6.0Go/s</li> <li>- 1 x embase de port d'impression</li> <li>- 1 x En-tête de port COM</li> <li>- 1 x Embase d'intrusion châssis</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 pouvoir (br. 3)</li> <li>- br. 24 connecteur d'alimentation ATX</li> <li>- br. 4 connecteur d'alimentation 12V ATX</li> <li>- Connecteur audio panneau avant</li> <li>- 2 x En-tête USB 2.0 (prendre en charge 4 ports USB 2.0 supplémentaires)</li> <li>- 1 x En-tête USB 3.0 (prendre en charge 2 ports USB 3.0 supplémentaires)</li> </ul>
<b>BIOS</b>	<ul style="list-style-type: none"> <li>- 64Mb AMI UEFI Legal BIOS avec support GUI</li> <li>- Support du "Plug and Play"</li> <li>- Compatible pour événements de réveil ACPI 1.1</li> <li>- Gestion jumperless</li> <li>- Support SMBIOS 2.3.1</li> <li>- DRAM, VDDP, VDDR, SB Tension Multi-ajustement</li> </ul>

<b>CD d'assistance</b>	- Pilotes, utilitaires, logiciel anti-virus (Version d'essai), CyberLink MediaEspresso 6.5 Trial, Google Chrome Browser et Toolbar
<b>Surveillance système</b>	- Détection de la température de l'UC - Mesure de température de la carte mère - Tachéomètre ventilateur CPU/Châssis/Ventilateur - Ventilateur silencieux pour unité CPU/Châssis - Commande de ventilateur CPU/Châssis à plusieurs vitesses - Détection d'OUVERTURE DE BOÎTIER - Monitoring de la tension: +12V, +5V, +3.3V, Vcore
<b>OS</b>	- Microsoft® Windows® 8 / 8 64-bit / 7 / 7 64-bit / Vista™ / Vista™ 64-bit
<b>Certifications</b>	- FCC, CE, WHQL - Prêt pour ErP/EuP (alimentation Prêt pour ErP/EuP requise)

\* Pour de plus amples informations sur les produits, s'il vous plaît visitez notre site web:

<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>- Supporto per processori socket FM2 100W</li><li>- Supporto tecnologia AMD Cool 'n' Quiet™</li><li>- UMI-Link GEN2</li></ul>
<b>Chipset</b>	<ul style="list-style-type: none"><li>- AMD A75 FCH (Hudson-D3)</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 1866/1600/1333/1066 non-ECC, memoria senza buffer</li><li>- Capacità massima della memoria di sistema: 32GB</li><li>- Supporto di Intel® XMP (Extreme Memory Profile) 1.3/1.2</li><li>- Supporto di AMD AMP (AMD Memory Profile)</li></ul>
<b>Slot di espansione</b>	<ul style="list-style-type: none"><li>- 1 x slot PCI Express 2.0 x16 (PCI-E1 modalità x16)</li><li>- 1 x slot PCI Express 2.0 x1</li><li>- 1 x slot PCI</li><li>- Supporta AMD Dual Graphics</li></ul>
<b>VGA su scheda</b>	<ul style="list-style-type: none"><li>- Grafica AMD Radeon HD 7000</li><li>- DirectX 11, Pixel Shader 5.0</li><li>- Memoria massima condivisa 2GB</li><li>- Uscita VGA Doppia: supporto porte DVI e D-Sub tramite verificatore display indipendente</li><li>- Supporta Dual-link DVI con risoluzione massima fino a 2560x1600 @ 75Hz</li><li>- Supporta D-Sub con risoluzione massima fino a 1920x1600 @ 60Hz</li><li>- Supporta AMD Steady Video™ 2.0: Nuova capacità di post-elaborazione video per la riduzione automatica delle vibrazioni nei video a casa/on-line</li><li>- Supporto della funzione HDCP con le porte DVI</li><li>- Supporto 1080p Blu-ray (BD) / HD-DVD riproduzione con le porte DVI</li></ul>
<b>Audio</b>	<ul style="list-style-type: none"><li>- 5.1 CH HD Audio (Realtek ALC662 Audio Codec)</li></ul>
<b>LAN</b>	<ul style="list-style-type: none"><li>- PCI-E x1 Gigabit LAN 10/100/1000 Mb/s</li><li>- Realtek RTL8111E</li><li>- Supporta Wake-On-LAN</li><li>- Supporta il rilevamento cavo LAN</li><li>- Supporto di Energy Efficient Ethernet 802.3az</li><li>- Supporta PXE</li></ul>

<b>Pannello posteriore I/O</b>	<p>I/O Panel</p> <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 D-Sub</li> <li>- 1 x Porta DVI-D</li> <li>- 4 x porte USB 2.0 già integrate</li> <li>- 2 x porte USB 3.0 già integrate</li> <li>- 1 x porte LAN RJ-45 con LED (LED azione/collegamento e LED velocità)</li> <li>- Connettore HD Audio: ingresso linea / cassa frontale / microfono</li> </ul>
<b>SATA3</b>	<ul style="list-style-type: none"> <li>- 6 x connettori SATA3 6,0 Gb/s, supporto di RAID (RAID 0, RAID 1 e RAID 10) e delle funzioni NCQ, AHCI e "Hot Plug"</li> </ul>
<b>USB 3.0</b>	<ul style="list-style-type: none"> <li>- 2 x porte USB 3.0 posteriori amministrare dal controller, supporto di USB 1.1/2.0/3.0 fino a 5Gb/s</li> <li>- 1 x header USB 3.0 frontale (supporta 2 porte USB 3.0) amministrato dal controller, supporto di USB 1.1/2.0/3.0 fino a 5Gb/s</li> </ul>
<b>Connettori</b>	<ul style="list-style-type: none"> <li>- 6 x connettori SATA3 6.0Go/s</li> <li>- 1 x Collettore porta stampante</li> <li>- 1 x collettore porta COM</li> <li>- 1 x header di intrusione dello chassis</li> <li>- 1 x Connettore CPU ventola (4-pin)</li> <li>- 1 x Connettore Chassis ventola (4-pin)</li> <li>- 1 x Connettore Alimentazione ventola (3-pin)</li> <li>- 24-pin collettore alimentazione ATX</li> <li>- 4-pin connettore ATX 12V</li> <li>- Connettore audio sul pannello frontale</li> <li>- 2 x Collettore USB 2.0 (supporta 4 porte USB 2.0)</li> <li>- 1 x Collettore USB 3.0 (supporta 2 porte USB 3.0)</li> </ul>
<b>BIOS</b>	<ul style="list-style-type: none"> <li>- 64Mb AMI UEFI Legal BIOS con interfaccia di supporto</li> <li>- Supporta "Plug and Play"</li> <li>- Compatibile con ACPI 1.1 wake up events</li> <li>- Supporta jumperfree</li> <li>- Supporta SMBIOS 2.3.1</li> <li>- Regolazione multi-voltaggio DRAM, VDDP, VDDR, SB</li> </ul>
<b>CD di supporto</b>	<ul style="list-style-type: none"> <li>- Driver, utilità, software antivirus (Versione dimostrativa), CyberLink MediaEspresso 6.5 Trial, Google Chrome Browser e Toolbar</li> </ul>
<b>Monitoraggio Hardware</b>	<ul style="list-style-type: none"> <li>- Sensore per la temperatura del processore</li> <li>- Sensore temperatura scheda madre</li> </ul>

	<ul style="list-style-type: none"> <li>- Indicatore di velocità per la ventola del CPU/chassis/ Alimentazione</li> <li>- Ventola CPU/chassis silenziosa</li> <li>- Ventola CPU/chassis con controllo di varie velocità</li> <li>- Rilevamento CASE APERTO</li> <li>- Voltaggio: +12V, +5V, +3.3V, Vcore</li> </ul>
<b>Compatibilità SO</b>	- Microsoft® Windows® 8 / 8 64 bit / 7 / 7 64 bit / Vista™ / Vista™ 64 bit
<b>Certificazioni</b>	<ul style="list-style-type: none"> <li>- FCC, CE, WHQL</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>- Admite procesadores de 100 W para zócalo FM2</li> <li>- Con soporte para tecnología Cool 'n' Quiet™ de AMD</li> <li>- UMI-Link GEN2</li> </ul>
<b>Chipset</b>	<ul style="list-style-type: none"> <li>- AMD A75 FCH (Hudson-D3)</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 1866/1600/1333/1066 non-ECC, memoria de un-buffered</li> <li>- Máxima capacidad de la memoria del sistema: 32GB</li> <li>- Compatible con Intel® Extreme Memory Profile (XMP)1.3/1.2</li> <li>- Compatible con AMD Memory Profile (AMP)</li> </ul>
<b>Ranuras de Expansión</b>	<ul style="list-style-type: none"> <li>- 1 x ranura PCI Express 2.0 x16 (PCIE1: modo x16)</li> <li>- 1 x ranura PCI Express 2.0 x1</li> <li>- 1 x ranura PCI</li> <li>- Admite AMD Dual Graphics</li> </ul>
<b>VGA OnBoard</b>	<ul style="list-style-type: none"> <li>- Tarjeta gráfica AMD Radeon HD 7000</li> <li>- DirectX 11, Pixel Shader 5.0</li> <li>- 2GB de Memoria máxima compartida</li> <li>- Salida de VGA dual: apoya los puertos de DVI y de D-Sub por los reguladores independientes de la exhibición</li> <li>- Admite Dual-link DVI con una resolución máxima de 2560x1600 a 75 Hz</li> <li>- Admite D-Sub con una resolución máxima de 1920x1600 a 60 Hz</li> <li>- Admite AMD Steady Video™ 2.0: Nueva capacidad de pospro cesamiento de vídeo para reducción automática de oscilaciones en vídeo doméstico y en línea</li> <li>- Admite la función HDCP con puertos DVI</li> <li>- Apoya la reproducción de Blu-ray de 1080p (BD) / HD-DVD con puertos DVI</li> </ul>
<b>Audio</b>	<ul style="list-style-type: none"> <li>- 5.1 CH HD Audio (Realtek ALC662 Audio Codec)</li> </ul>
<b>LAN</b>	<ul style="list-style-type: none"> <li>- PCIE x1 Gigabit LAN 10/100/1000 Mb/s</li> <li>- Realtek RTL8111E</li> <li>- Soporta Wake-On-LAN</li> <li>- Admite detección de conexión de cable LAN</li> <li>- Compatible con Ethernet 802.3az de bajo consumo energético</li> <li>- Compatible con PXE</li> </ul>



<b>Entrada/Salida de Panel Trasero</b>	I/O Panel - 1 x puerto de ratón PS/2 - 1 x puerto de teclado PS/2 - 1 x Puerto D-Sub - 1 x Puerto DVI-D - 4 x puertos USB 2.0 predeterminados - 2 x puertos USB 3.0 predeterminados - 1 x Puerto LAN RJ-45 con LED (LED de ACCIÓN/ ENLACE y LED de VELOCIDAD) - Conexión de audio: Entrada de línea / Altavoz frontal / Micrófono
<b>SATA3</b>	- 6 x conectores SATA3 de 6,0 Gb/s compatibles con funciones RAID (RAID 0, RAID 1 y RAID 10), NCQ, AHCI y de “conexión en caliente”
<b>USB 3.0</b>	- 2 x puertos USB 3.0 traseros, compatible con USB 1.1/2.0/3.0 de hasta 5 GB/s - 1 x cabecera USB 3.0 delantera (compatible con 2 puertos USB 3.0), compatible con USB 1.1/2.0/3.0 de hasta 5 GB/s
<b>Conectores</b>	- 6 x conexiones SATA3, admiten una velocidad de transferencia de datos de hasta 6,0Gb/s - 1 x cabecera de puerto de impresora - 1 x En-tête de port COM - 1 x Conector de detección de intrusión en el chasis - 1 x Conector de ventilador de CPU (4-pin) - 1 x Conector de ventilador de chasis (4-pin) - 1 x Conector de ventilador de alimentación (3-pin) - 24-pin cabezal de alimentación ATX - 4-pin conector de ATX 12V power - Conector de audio de panel frontal - 2 x Cabezal USB 2.0 (admite 4 puertos USB 2.0 adicionales) - 1 x Cabezal USB 3.0 (admite 2 puertos USB 3.0 adicionales)
<b>BIOS</b>	- 64Mb AMI BIOS legal UEFI AMI compatible con GUI - Soporta “Plug and Play” - ACPI 1.1 compliance wake up events - Soporta “jumper free setup” - Soporta SMBIOS 2.3.1 - Múltiple ajuste de DRAM, VDDP, VDDR, SB Voltage

<b>CD de soport</b>	- Controladores, Utilerías, Software de Anti Virus (Versión de prueba), Prueba de CyberLink MediaEspresso 6.5, Google Chrome Browser y Toolbar
<b>Monitor Hardware</b>	- Sensibilidad a la temperatura del procesador - Sensibilidad a la temperatura de la placa madre - Taquímetros de los ventiladores del procesador y del CPU / chasis / alimentacion - Ventilador silencioso del CPU / chasis - Control de ajuste de la velocidad del ventilador de la CPU y el chasis - Control de APERTURA DE CARCASA - Monitor de Voltaje: +12V, +5V, +3.3V, Vcore
<b>OS</b>	- En conformidad con Microsoft® Windows® 8 / 8 64 bits / 7 / 7 64 bits / Vista™ / Vista™ 64 bits
<b>Certificaciones</b>	- FCC, CE, WHQL - 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>

## Спецификации

<b>Платформа</b>	- форм-фактор Micro ATX - Твердотельный конденсатор в цепи питания процессора
<b>Процессор</b>	- Поддерживаются процессоры для гнезда Socket FM2 с потребляемой мощностью до 100 Вт - Поддержка технологии AMD Cool 'n' Quiet™ - UMI-Link GEN2
<b>Набор микросхем</b>	- AMD A75 FCH (Hudson-D3)
<b>Память</b>	- Поддержка технологии Dual Channel DDR3 Memory Technology - 2 х гнезда DDR3 DIMM - Поддержите DDR3 1866/1600/1333/1066 не- ECC, безбуферная память - Макс. 32 Гб - поддержка профиля Intel® Extreme Memory Profile (XMP)1.3/1.2 - поддержка профиля AMD Memory Profile (AMP)
<b>Гнезда расширения</b>	- 1 х гнезда PCI Express 2.0 x16 (PCIЕ1: режим x16) - 1 х гнезда PCI Express 2.0 x1 - 1 х гнезда PCI - Поддерживаются режимы AMD двойные видеокарты
<b>Графика</b>	- Видеоадаптер AMD Radeon HD 7000 - Поддержка DirectX 11, Pixel Shader 5.0 - Макс. объем разделяемой памяти 2GB - Двойственное VGA выходное устройство: поддерживает DVI и D-Sub порты через независимый контроллер дисплея - Поддержка Dual-link DVI с максимальным разрешением до 2560x1600 @ 75 Гц - Поддержка D-Sub с максимальным разрешением до 1920x1600 @ 60 Гц - Поддержка технологии AMD Steady Video™ 2.0: новая функция постобработки видеоизображения для автоматического устранения дрожания при просмотре домашних и онлайн-видео записей - Поддержка функции HDCP через разъемы DVI - Поддержат Blu-луч 1080p (КОММУТАЦИОННАЯ ДОСКА) / воспроизведение HD-DVD через разъемы DVI
<b>Аудиосистема</b>	- 5.1 CH HD Audio HD (Кодер-декодер Audio Realtek ALC662)
<b>ЛВС</b>	- PCIЕ x 1 Gigabit LAN 10/100/1000 Mb/s - Realtek RTL8111E - поддержка Wake-On-LAN - Поддержка определения кабеля ЛВС - Поддержка энергосберегающего интерфейса Ethernet 802.3az - Поддержка PXE
<b>Разъемы ввода-вывода на задней панели</b>	I/O Panel - 1 х порт мыши PS/2 - 1 х порт клавиатуры PS/2 - 1 х D-Sub порт

	<ul style="list-style-type: none"> <li>- 1 x DVI-D порт</li> <li>- 4 x порта USB 2.0 на задней панели в стандартной конфигурации</li> <li>- 2 x порта USB 3.0 на задней панели в стандартной конфигурации</li> <li>- Разъем 1 x RJ-45 LAN с светодиодным индикатором (индикатор АСТ/LINK и индикатор SPEED)</li> <li>- Соединитель звуковой подсистемы: линейный вход / передняя колонка / микрофон</li> </ul>
<b>SATA3</b>	- 6 x разъемы SATA3 6,0 Гбит/с, поддержка функций RAID (RAID 0, RAID 1 и RAID 10), NCQ, AHCI и «горячего подключения»
<b>USB 3.0</b>	<ul style="list-style-type: none"> <li>- 2 x задних порта USB 3.0 на контроллере с поддержкой интерфейсов USB 1.1/2.0/3.0 и скорости передачи данных до 5 Гбит/с</li> <li>- 1 x передний разъем USB 3.0 (поддерживает 2 порта USB 3.0) с поддержкой интерфейсов USB 1.1/2.0/3.0 и скорости передачи данных до 5 Гбит/с</li> </ul>
<b>Колодки и плате</b>	<ul style="list-style-type: none"> <li>- 6 x разъемы SATA3 6,0 Гбит/с</li> <li>- 1 x Разъем порта печати</li> <li>- 1 x Колодка COM</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>- 24-контактный Колодка питания ATX</li> <li>- 4-контактный Разъем ATX 12 В</li> <li>- Аудиоразъем передней панели</li> <li>- 2 x Колодка USB 2.0 (одна колодка для поддержки 4 дополнительных портов USB 2.0)</li> <li>- 1 x Колодка USB 3.0 (одна колодка для поддержки 2 дополнительных портов USB 3.0)</li> </ul>
<b>BIOS</b>	<ul style="list-style-type: none"> <li>- 64Mb AMI UEFI Legal BIOS с поддержкой графического интерфейса поль зователя</li> <li>- поддержка "Plug and Play"</li> <li>- ACPI 1.1, включение по событиям</li> <li>- поддержка режима настройки без перемычек</li> <li>- поддержка SMBIOS 2.3.1</li> <li>- Регулировка напряжений DRAM, VDDP, VDDR, SB</li> </ul>
<b>Компактдиск поддержки</b>	- Драйверы, Утилиты, Антивирус (пробная версия), Пробная версия программы CyberLink MediaEspresso 6.5, Google Chrome Browser и Toolbar
<b>Контроль оборудования</b>	<ul style="list-style-type: none"> <li>- Датчики температуры процессора</li> <li>- Датчики температуры корпуса</li> <li>- Тахометры вентиляторов ЦП/Шасси/Power FAN</li> <li>- Бесшумный вентилятор ЦП/Шасси блока</li> <li>- Мультиконтроль скорости вентилятора ЦП/Шасси</li> <li>- Определение открытой крышки</li> <li>- Контроль напряжения: +12V, +5V, +3.3V, Vcore</li> </ul>

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<b>Операционные системы</b>	- Совместимость с Microsoft® Windows® 8 / 8 64-bit / 7 / 7 64-bit / Vista™ / Поддержка 64-разрядной версии Vista™
<b>Сертификаты</b>	- FCC, CE, WHQL - Совместимость с ErP/EuP Ready (требуется блок питания совместимый с ErP/EuP)

\* 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>- Suporte para processadores com Socket FM2 de 100W</li><li>- Suporta a tecnologia Cool 'n' Quiet da AMD</li><li>- UMI-Link GEN2</li></ul>
<b>Chipsets</b>	<ul style="list-style-type: none"><li>- AMD A75 FCH (Hudson-D3)</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>- Suporta memória DDR3 1866/1600/1333/1066, não ECC, sem tampão</li><li>- Capacidade máxima de memória do sistema: 32GB</li><li>- Suporta Extreme Memory Profile (XMP)1.3/1.2 da Intel®</li><li>- Suporta Perfil de Memória AMD (AMP)</li></ul>
<b>Slots de Expansão</b>	<ul style="list-style-type: none"><li>- 1 x slot de PCI Express 2.0 x16 (PCIE1: modo x16)</li><li>- 1 x slot de PCI Express 2.0 x1</li><li>- 1 x slot de PCI</li><li>- Suporta Dual Graphics da AMD</li></ul>
<b>VGA integrado</b>	<ul style="list-style-type: none"><li>- Placa gráfica AMD Radeon HD Série 7000</li><li>- DirectX 11, Pixel Shader 5.0</li><li>- Memória partilhada máxima 2GB</li><li>- Porta de saída VGA dupla: suporta portas DVI e D-Sub através de controladores de visualização independentes</li><li>- Suporta Dual-link DVI com resolução máxima até 2560x1600 @ 75Hz</li><li>- Suporta D-Sub com resolução máxima até 1920x1600 @ 60Hz</li><li>- Suporta AMD Steady Video™ 2.0: Nova capacidade de pós-processamento de vídeo para redução automática de vibrações em vídeo local/online</li><li>- Suporta função HDCP com porta DVI</li><li>- Suporta a norma Blu-ray de alta definição 1080p (BD) / e a reprodução de DVDs de alta definição com porta DVI</li></ul>
<b>Áudio</b>	<ul style="list-style-type: none"><li>- Áudio HD de 5.1 canais (Realtek ALC662 Audio Codec)</li></ul>
<b>LAN</b>	<ul style="list-style-type: none"><li>- PCIE x1 Gigabit LAN 10/100/1000 Mb/s</li><li>- Realtek RTL8111E</li><li>- Suporta Wake-On-LAN</li><li>- Suporta Detecção de cabo LAN</li><li>- Suporta Ethernet com Eficiência Energética 802.3az</li><li>- Suporta PXE</li></ul>

<b>Entrada/Saída pelo painel</b>	<p>I/O Panel</p> <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 D-Sub</li> <li>- 1 x porta DVI-D</li> <li>- 4 x portas USB 2.0 padrão</li> <li>- 2 x portas USB 3.0 padrão</li> <li>- 1 x porta LAN RJ-45 com LED (LED ACT/LIG e LED VELOCIDADE)</li> <li>- Ficha de áudio HD: Entrada de linha / Altifalante frontal / Microfone</li> </ul>
<b>SATA3</b>	- 6 x conectores SATA3 a 6,0 Gb/s, com suporte para RAID (RAID 0, RAID 1 e RAID 10), NCQ, AHCI e funções Hot Plug
<b>USB3.0</b>	<ul style="list-style-type: none"> <li>- 2 x Portas USB 3.0 traseiras, com suporte para USB 1.1/2.0/3.0 até 5Gb/s</li> <li>- 1 x Conector USB 3.0 frontal (suporta 2 portas USB 3.0), com suporte para USB 1.1/2.0/3.0 até 5Gb/s</li> </ul>
<b>Conectores</b>	<ul style="list-style-type: none"> <li>- 6 x conectores SATA3, suporte a taxa de transferência de dados de até 6,0 Gb/s</li> <li>- 1 x Conector de Porta de Impressão</li> <li>- 1 x conector de porta COM</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>- Conector de força do ATX de 24 pinos</li> <li>- Conector ATX 12 V de 4 pinos</li> <li>- Conector Áudio do painel frontal</li> <li>- 2 x cabezal USB 2.0 (suporta 4 portas USB 2.0)</li> <li>- 1 x cabezal USB 3.0 (suporta 2 portas USB 3.0)</li> </ul>
<b>BIOS</b>	<ul style="list-style-type: none"> <li>- 64Mb BIOS UEFI oficial da AMI com suporte para GUI</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>- Suporte para SMBIOS 2.3.1</li> <li>- DRAM, VDDP, VDDR, SB Voltage Multi-adjustment</li> </ul>
<b>CD de suporte</b>	- Controladores, utilitários, software antivírus (Experimentacao Versao), CyberLink MediaEspresso 6.5 versão de demonstração, Navegador Google Chrome e Barra de Ferramentas
<b>Monitor do HW</b>	- Sensores de temperature do procesador

	<ul style="list-style-type: none"> <li>- Tacômetros de ventilador do Processador/chassis/energia</li> <li>- Ventoinha silenciosa para a CPU/Chassis</li> <li>- CPU/Chassis Fan Controle Multi-Velocidade</li> <li>- Detecção de ABERTURA da CAIXA</li> <li>- Monitoramento de voltagem : +12 V, +5 V, +3.3 V, Vcore</li> </ul>
<b>Sistema Operacional</b>	- Microsoft® Windows® 8 / 8 de 64 bits / 7 / 7 de 64 bits / Vista™ / Vista™ de 64 bits
<b>Certificações</b>	<ul style="list-style-type: none"> <li>- FCC, CE, WHQL</li> <li>- “ErP/EuP Ready” (é necessária alimentação eléctrica “ErP/EuP Ready”)</li> </ul>

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



## Özellikler

<b>Platform</b>	- Micro ATX Form Faktörü - CPU gücü için Katı Kapasitör
<b>CPU</b>	- Yuva Tipi FM2 100W İşlemcileri destekler - AMD'nin Cool 'n' Quiet™ Teknolojisini Destekler - UMI-Bağlantısı GEN2
<b>Yonga seti</b>	- AMD A75 FCH (Hudson-D3)
<b>Bellek</b>	- Çift Kanallı DDR3 Belleği Teknolojisi - 2 x DDR3 DIMM yuva - DDR3 1866/1600/1333/1066 ECC olmayan, ara belleksiz bellek - Sistem belleğinin maks. kapasitesi: 32 GB - Intel® Extreme Bellek Profilini (XMP)1.3/1.2 destekler - AMD Bellek Profilini (AMP) destekler
<b>Genişletme Yuvası</b>	- 1 x PCI Express 2.0 x16 yuva (PCI E1: x16 modu) - 1 x PCI Express 2.0 x1 yuva - 1 x PCI yuva - AMD Dual Graphics'i destekler
<b>Grafikler</b>	- AMD Radeon HD 7000 grafik - DirectX 11, Pixel Shader 5.0 - Maks. paylaşılan bellek 2GB - Çift VGA Çıkış: desteği DVI ve bağımsız görüntü denetleyiciler tarafından D-Sub bağlantı noktaları - 75Hz'de 2560x1600'e kadar maks. çözünürlükle Dual-link DVI'ye destekler - 60Hz'de 1920x1600'ya kadar maks. çözünürlükle D-Sub'a destekler - AMD Steady Video™'yu destekler 2.0: Ev/çevrimiçi videoda otomatik titreşim azaltma için yeni video işleme sonrası özelliği - DVI portlarıyla HDCP işlevini destekler - DVI portlarıyla Tam HD 1080p Blu-ray (BD) / HD-DVD oynatımına destekler
<b>Ses</b>	- (Realtek ALC662 Ses Codec'i) 5,1 Kanal HD Ses
<b>LAN</b>	- PCIe x1 Gigabit LAN 10/100/1000 Mb/sn - Realtek RTL8111E - LAN'da Uyan özelliğini destekler - LAN Kablo Algılama'yı destekler - Enerji Verimli Ethernet 802.3az desteği - PXE'yi destekler

<b>Arka Panel G/3</b>	<p>G/3 Paneli</p> <ul style="list-style-type: none"> <li>- 1 x PS/2 Fare Portu</li> <li>- 1 x PS/2 Klavye Port</li> <li>- 1 x D-Sub Portu</li> <li>- 1 x DVI-D Portu</li> <li>- 4 x Kullanıma Hazır USB 2.0 Portu</li> <li>- 2 x Kullanıma Hazır USB 3.0 Portu</li> <li>- 1 x RJ-45 LAN Portu, LED'li (AKT/L3NK LED'i ve HIZ LED)</li> <li>- HD Ses Jaki: Hat Girişil/Ön Hoparlör/Mikrofon</li> </ul>
<b>SATA3</b>	<ul style="list-style-type: none"> <li>- 6 x SATA3 6,0Gb/sn konektör, donanım RAID (RAID 0, RAID 1 ve RAID 10), NCQ, AHCI ve "Sistem Aızekken Bileşen Takma" işlevlerini</li> </ul>
<b>USB 3.0</b>	<ul style="list-style-type: none"> <li>- 2 x Arka USB 3.0 bağlantı noktası, 5Gb/s'ye kadar USB 1.1/2.0/3.0</li> <li>- 1 x Ön USB 3.0 bağlantısı (2 USB 3.0 bağlantı noktasını destekler), 5Gb/s'ye kadar USB 1.1/2.0/3.0</li> </ul>
<b>Konektör</b>	<ul style="list-style-type: none"> <li>- 6 x SATA3 6.0 Gb/sn konektör</li> <li>- 1 x Yazdırma Portu fişii</li> <li>- 1 x COM portu fişii</li> <li>- 1 x Kasaya Yetkisiz Erişim fişii</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>- 24 pin ATX güç konektörü</li> <li>- 4 pin 12V güç konektörü</li> <li>- Ön panel ses konektörü</li> <li>- 2 x USB 2.0 fiş (4 USB 2.0 portu destekler)</li> <li>- 1 x USB 3.0 fiş (2 USB 3.0 portu destekler)</li> </ul>
<b>BIOS Özelliđi</b>	<ul style="list-style-type: none"> <li>- 64 Mb AMI BIOS</li> <li>- GUI destekli AMI UEFI Geçerli BIOS</li> <li>- "Tak Çalıştır"ı destekler</li> <li>- ACPI 1.1 Uyumlu Uyandırma Olayları</li> <li>- Jumpersız ayarlamayı destekler</li> <li>- AMBIOS 2.3.1 Desteđi</li> <li>- DRAM, VDDP, VDDR, SB Voltaj Çoklu ayarı</li> </ul>
<b>Destek CD'si</b>	<ul style="list-style-type: none"> <li>- Sürücüler, Yardımcı Programlar, AntiVirüs Yazılımı (Deneme Sürümü), CyberLink MediaEspresso 6.5 Deneme Sürümü, Google Chrome Browser ve Toolbar</li> </ul>
<b>Donanım Monitör</b>	<ul style="list-style-type: none"> <li>- CPU Sıcaklık Duyarlılıđı</li> <li>- Kasa Sıcaklık Duyarlılıđı</li> <li>- CPU/Kasa/Güç Fan Takometresi</li> <li>- CPU/Kasa Sessiz Fanı</li> </ul>

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	<ul style="list-style-type: none"><li>- CPU/Kasa Fan Çoklu-Hız Kontrolü</li><li>- KASA AÇIK algılaması</li><li>- Voltaj İzleme: +12V, +5V, +3,3V, CPU Vcore</li></ul>
<b>İS</b>	<ul style="list-style-type: none"><li>- Microsoft® Windows® 8 / 8 64-bit / 7 / 7 64-bit / Vista™ / Vista™ 64-bit uyumlu</li></ul>
<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	- 소켓 FM2 100W 프로세서 지원 - AMD의 Cool 'n' Quiet™ 기술 지원 - UMI-Link GEN2
칩셋	- AMD A75 FCH (Hudson-D3)
메모리	- 듀얼 채널 메모리 기술 지원 - DDR3 DIMM 슬롯 2 개 - DDR3 1866/1600/1333/1066 비-ECC, 언버퍼드 메모리를 지원 - 최대 시스템 메모리 용량 : 32GB - Intel® 익스트림 메모리 프로파일 (XMP) 1.3/1.2 지원 - AMD 메모리 프로파일 (AMP) 지원
확장 슬롯	- 1 개의 PCI Express 2.0 x16 슬롯 (PCIe1: x16 모드) - 1 개의 PCI Express 2.0 x1 슬롯 - 1 개의 PCI 슬롯 - AMD 듀얼 그래픽 지원
온보드 VGA	- AMD의 라테온 HD 7000 그래픽 - DirectX 11, Pixel Shader 5.0 - 최대 공유 메모리 2GB - 더블 VGA 수출 : DVI와 D-Sub 포트 독립 디스플레이 컨트롤러를 지원 - 최대 해상도 2560x1600 @ 75Hz 까지 Dual-link DVI 지원 - 최대 해상도 1920x1600 @ 60Hz 까지 D-Sub 지원 - AMD Steady Video™ 2.0 지원 : 홈 / 온라인 비디오의 자동 떨림감소를 위한 새로운 비디오 포스트 프로세싱 능력 - DVI 포트를 이용한 HDCP 기능 지원 - DVI 포트를 이용한 1080p Blu-ray (BD) / HD-DVD 재생을 지원
오디오	- 5.1 CH HD Audio (Realtek ALC662 Audio Codec)
랜	- PCIe x1 Gigabit LAN 10/100/1000 Mb/s - Realtek RTL8111E - 웨이크-온-랜 지원 - LAN 케이블 감지 지원 - 절전형 이더넷 802.3az 지원 - PXE 지원
후면판 I/O	I/O Panel - 1 개 PS/2 마우스 포트 - 1 개 PS/2 키보드 포트 - 1 개의 D-Sub 포트

	<ul style="list-style-type: none"> <li>- 1 개의 DVI-D 포트</li> <li>- 4 개디폴트 USB 2.0 포트</li> <li>- 2 개디폴트 USB 3.0 포트</li> <li>- 1 개 LED(ACT/LINK LED 및 SPEED LED) 가 있는 RJ-45 LAN 포트</li> <li>- 오디오 잭 : 라인 인 / 전방 스피커 / 마이크</li> </ul>
SATA3	- 6 개 의 SATA3 6.0Gb/s 커넥터 , RAID (RAID 0, RAID 1 및 RAID 10), NCQ, AHCI 및 “ 핫 플러그 ” 기능 지원
USB 3.0	<ul style="list-style-type: none"> <li>- 에 의한 후면 패널 USB 3.0 포트 2 개 , 최고 5Gb/s 의 USB 1.1/2.0/3.0 지원</li> <li>- 에 의한 전면 패널 USB 3.0 헤더 1 개 (USB 3.0 포트 2 개 지원) , 최고 5Gb/s 의 USB 1.1/2.0/3.0 지원</li> </ul>
온보드 헤더 및 커넥터	<ul style="list-style-type: none"> <li>- 6 개 의 SATA3 6.0Gb/s 커넥터</li> <li>- 프린트 포트 헤더 1 개</li> <li>- COM 포트 헤더 1 개</li> <li>- 새시 침입 헤더 1 개</li> <li>- CPU 팬 커넥터 1 개 (4 핀 )</li> <li>- 새시 팬 커넥터 1 개 (4 핀 )</li> <li>- 전원 팬 커넥터 1 개 (3 핀 )</li> <li>- 24 핀 ATX 전원 헤더</li> <li>- 4 핀 ATX 12V 파워 콘넥터</li> <li>- 전면부 오디오 콘넥터</li> <li>- USB 2.0 헤더 2 개 (4 개의 추가 USB 2.0 포트를 지원하는 헤더 2 개 )</li> <li>- USB 3.0 헤더 1 개 (2 개의 추가 USB 3.0 포트를 지원하는헤더 2 개 )</li> </ul>
BIOS	<ul style="list-style-type: none"> <li>- 64Mb GUI 지원을 제공하는 AMI UEFI 적합형 BIOS</li> <li>- “플러그 앤 플레이” 지원</li> <li>- ACPI 1.1 웨이크 - 업 이벤트와의 호환</li> <li>- 점퍼 프리 지원</li> <li>- 점퍼 프리 지원 ; SMBIOS 2.3.1 지원</li> <li>- DRAM, VDDP, VDDR, SB 전압 멀티 조절</li> </ul>
지원 CD	- 드라이버 , 유틸리티 , 안티바이러스 소프트웨어 ( 시험판) , CyberLink MediaEspresso 6.5 평가판 , Google Chrome Browser 및 Toolbar
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 : 사시 ( 케이스 ) 팬 회전 속도 계</li> <li>- CPU/ 새시 저소음 팬</li> <li>- CPU/ 새시 팬 멀티스피드 컨트롤</li> <li>- 케이스 열림 감지</li> </ul>

	- 전압 감시 기능 : +12V,+5V,+3.3V,Vcore
OS	- 마이크로 소프트 Windows® 8/8 64 비트 /7/7 64 비트 /Vista™/ Vista™ 64 비트 와 호환
인증서	- FCC, CE, WHQL - ErP/EuP 지원 (ErP/EuP 지원 전원 공급기가 요구됨 )

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

## 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>- Socket FM2 100W Processors に対応</li> <li>- AMD 社 Cool 'n' Quiet™ をサポート</li> <li>- UMI-Link GEN2</li> </ul>
チップセット	<ul style="list-style-type: none"> <li>- AMD A75 FCH (Hudson-D3)</li> </ul>
メモリー	<ul style="list-style-type: none"> <li>- デュアルチャンネル DDR3 メモリーテクノロジー</li> <li>- DDR3 DIMM スロット x 2</li> <li>- DDR3 1866/1600/1333/1066 non-ECC, un-buffered メモリーに対応</li> <li>- システムメモリの最大容量: 32GB</li> <li>- Intel® Extreme Memory Profile (XMP)1.3/1.2 をサポート</li> <li>- AMD Memory Profile (AMP) をサポート</li> </ul>
拡張スロット	<ul style="list-style-type: none"> <li>- 1 x PCI Express 2.0 x16 スロット (PCIe1: x16 モード)</li> <li>- 1 x PCI Express 2.0 x1 スロット</li> <li>- 1 x PCI スロット</li> <li>- AMD Dual Graphics に対応</li> </ul>
グラフィック	<ul style="list-style-type: none"> <li>- AMD Radeon HD 7000 シリーズ</li> <li>- DirectX 11, Pixel Shader 5.0</li> <li>- 最大の共有メモリ 2GB</li> <li>- デュアル VGA 出力: 独立型ディスプレイコントローラによる DVI および D-Sub ポートサポート</li> <li>- 2560x1600 @ 75Hz の最大解像度で Dual-link DVI をサポート</li> <li>- 1920x1600 @ 60Hz の最大解像度で D-Sub をサポート</li> <li>- AMD Steady Video™ のサポート: 家庭 / オンラインビデオの自動ジッター低減用の新しいビデオポストの処理機能</li> <li>- HDCP 機能、DVI ポートをサポート</li> <li>- 1080p Blu-ray (BD) / HD-DVD 再生サポート、DVI ポートをサポート</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 Codec)</li> </ul>
LAN	<ul style="list-style-type: none"> <li>- PCIe x1 Gigabit LAN 10/100/1000 Mb/s</li> <li>- Realtek RTL8111E</li> <li>- Wake-On-LAN をサポート</li> <li>- LAN ケーブル検出をサポート</li> <li>- Energy Efficient Ethernet 802.3az をサポート</li> <li>- PXE をサポート</li> </ul>

リアパネル I/O	I/O Panel <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>- D-Sub ポート x 1</li> <li>- DVI-D ポート x 1</li> <li>- Ready-to-Use USB 2.0 ポート x 4</li> <li>- Ready-to-Use USB 3.0 ポート x 2</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>
SATA3	- 6 x SATA3 6.0Gb/秒コネクタが、RAID (RAID 0、RAID 1 および RAID 10)、NCQ、AHCI および “Hot Plug” (ホットプラグ) 機能をサポート
USB 3.0	- 2 x リア USB 3.0 ポート、USB 1.1/2.0/3.0 に最高 5Gb/s まで対応 - 1 x フロント USB 3.0 ヘッダ (USB 3.0 ポート 2 基対応)、USB 1.1/2.0/3.0 に最高 5Gb/s まで対応
コネクタ	- 6 x SATA3 6.0Gb/秒コネクタが - プリントポートヘッダ x 1 - COM ポートヘッダ x 1 - シャーシ侵入ヘッダ x 1 - CPU ファンコネクタ x 1 (4 ピン) - シャーシファンコネクタ x 1 (4 ピン) - 電源ファンコネクタ x 1 (3 ピン) - 24 ピン ATX 電源コネクタ - 4 ピン 12V 電源コネクタ - フロントパネルオーディオコネクタ - USB 2.0 ヘッダ (USB 2.0 用 4 ポートをサポート) x 2 - USB 3.0 ヘッダ (USB 3.0 用 2 ポートをサポート) x 1
BIOS 関連機能	- 64Mb AMI UEFI Legal BIOS(GUI サポート) - ブラグ&プレイをサポート - ACPI 1.1 準拠ウェイクアップイベント - jumperfree モードサポート - SMBIOS 2.3.1 サポート - DRAM、VDDP、VDDR、SB ブリッジ電圧
サポート CD	- 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)、CyberLink MediaEspresso 6.5 試用版、Google Chrome Browser および Toolbar
モニター	- CPU 温度検知 - マザーボード温度検知 - CPU / シャーシ / 電源ファンタコメータ - CPU / シャーシ静音ファン



	<ul style="list-style-type: none"> <li>- CPU/ シャーシファンマルチ速度制御</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® 8 / 8 64-bit / 7/7 64-bit/ Vista™/Vista™ 64-bit compliant</li> </ul>
認証	<ul style="list-style-type: none"> <li>- FCC, CE, Microsoft® WHQL 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 供电电路固态电容</li></ul>
处理器	<ul style="list-style-type: none"><li>- FM2 插槽支持 100W 处理器</li><li>- 支持 AMD Cool 'n' Quiet™ 冷静技术</li><li>- UMI-Link GEN2</li></ul>
芯片组	<ul style="list-style-type: none"><li>- AMD A75 FCH (Hudson-D3)</li></ul>
系统内存	<ul style="list-style-type: none"><li>- 支持双通道 DDR3 内存技术</li><li>- 配备 2 个 DDR3 DIMM 插槽</li><li>- 支持 DDR3 1866/1600/1333/1066 non-ECC、un-buffered 内存</li><li>- 最高支持 32GB 系统容量</li><li>- 支持 Intel® Extreme Memory Profile(XMP)1.3/1.2</li><li>- 支持 AMD Memory Profile(AMP)</li></ul>
扩展插槽	<ul style="list-style-type: none"><li>- 1 x PCI Express 2.0 x16 插槽 (PCIe1: x16 模式)</li><li>- 1 x PCI Express 2.0 x1 插槽</li><li>- 1 x PCI 插槽</li><li>- 支持 AMD 双显卡技术</li></ul>
板载显卡	<ul style="list-style-type: none"><li>- AMD Radeon HD 7000 显卡</li><li>- DirectX 11、Pixel Shader 5.0 技术</li><li>- 最大共享内存 2GB</li><li>- 双 VGA 输出：通过独立显示控制器提供 DVI 和 D-Sub 接口</li><li>- 支持 Dual-link DVI, 最高分辨率达 2560x1600 @ 75Hz</li><li>- 支持 D-Sub, 最高分辨率达 1920x1600 @ 60Hz</li><li>- 支持 AMD Steady Video™ 2.0: 最新视频后处理能力, 可为家庭 / 在线视频提供自动降低抖动的功能</li><li>- 通过 DVI 接口支持 HDCP 功能</li><li>- 通过 DVI 接口可播放 10800 线蓝光光盘 (BD) / HD-DVD 光盘</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></ul>
板载 LAN 功能	<ul style="list-style-type: none"><li>- PCIe x1 Gigabit LAN 10/100/1000 Mb/s</li><li>- Realtek RTL8111E</li><li>- 支持网路唤醒 (Wake-On-LAN)</li><li>- 支持网路线侦测功能</li><li>- 支持 Energy Efficient Ethernet 802.3az</li><li>- 支持 PXE</li></ul>
Rear Panel (后面板输入 / 输出接口)	<p>I/O 界面</p> <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 D-Sub 接口</li><li>- 1 个 DVI-D 接口</li><li>- 4 个可直接使用的 USB 2.0 接口</li></ul>

	<ul style="list-style-type: none"> <li>- 2 个可直接使用的 USB 3.0 接口</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: 音频输入 / 前置喇叭 / 麦克风</li> </ul>
SATA3	<ul style="list-style-type: none"> <li>- 6 x SATA3 6.0Gb/s 连接头, 支持 RAID (RAID 0, RAID 1 和 RAID 10), NCQ, AHCI 和热插拔功能</li> </ul>
USB 3.0	<ul style="list-style-type: none"> <li>- 2 x 后置 USB 3.0 接口, 支持 USB 1.1/2.0/3.0 到 5Gb/s</li> <li>- 1 x 前置 USB 3.0 接针 (支持 2 个 USB 3.0 接口), 支持 USB 1.1/2.0/3.0 到 5Gb/s</li> </ul>
连接头	<ul style="list-style-type: none"> <li>- 6 x SATA3 6.0Gb/s 连接头</li> <li>- 1 x 打印机端口接针</li> <li>- 1 x 串行接口</li> <li>- 1 x 机箱开启警告功能接针</li> <li>- 1 x CPU 风扇接头 (4 针)</li> <li>- 1 x 机箱风扇接头 (4 针)</li> <li>- 1 x 电源风扇接头 (3 针)</li> <li>- 24 针 ATX 电源接头</li> <li>- 4 针 12V 电源接头</li> <li>- 前置音频面板接头</li> <li>- 2 x USB 2.0 接口 (可支持 4 个额外的 USB 2.0 接口)</li> <li>- 1 x USB 3.0 接针 (可支持 2 个额外的 USB 3.0 接口)</li> </ul>
BIOS	<ul style="list-style-type: none"> <li>- 64Mb AMI BIOS</li> <li>- AMI UEFI Legal BIOS, 支持 GUI</li> <li>- 支持即插即用 (Plug and Play, PnP)</li> <li>- ACPI 1.1 电源管理</li> <li>- 支持唤醒功能</li> <li>- 支持 jumperfree 免跳线模式</li> <li>- DRAM, VDDP, VDDR, SB 电压多功能调节器</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 (测试版本)、CyberLink MediaEspresso 6.5 试用版、Chrome 谷歌浏览器和工具栏</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/ 机箱静音风扇</li> <li>- CPU/ 机箱风扇多速控制</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® 8/8 64 位元 / 7/7 64 位元 / Vista™ / Vista™ 64 位元适用于此主板</li> </ul>
认证	<ul style="list-style-type: none"> <li>- FCC, CE, WHQL</li> <li>- 支持 ErP/EuP (需要同时使用支持 ErP/EuP 的电源供应器)</li> </ul>

## 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>- FM2 插槽支援 100W 處理器</li> <li>- 支援 AMD Cool 'n' Quiet 冷靜技術</li> <li>- UMI-Link GEN2</li> </ul>
晶片組	<ul style="list-style-type: none"> <li>- AMD A75 FCH (Hudson-D3)</li> </ul>
系統記憶體	<ul style="list-style-type: none"> <li>- 支援雙通道 DDR3 記憶體技術</li> <li>- 2 個 DDR3 DIMM 插槽</li> <li>- 支援 DDR3 1866/1600/1333/1066 non-ECC、un-buffered 記憶體</li> <li>- 最高支援 32GB 系統容量</li> <li>- 支援 Intel® Extreme Memory Profile(XMP)1.3/1.2</li> <li>- 支援 AMD Memory Profile(AMP)</li> </ul>
擴充插槽	<ul style="list-style-type: none"> <li>- 1 x PCI Express 2.0 x16 插槽 (PCIe1: x16 模式)</li> <li>- 1 x PCI Express 2.0 x1 插槽</li> <li>- 1 x PCI 插槽</li> <li>- 支援 AMD 雙顯卡技術</li> </ul>
內建顯示	<ul style="list-style-type: none"> <li>- AMD Radeon HD 7000 顯示</li> <li>- DirectX 11 顯示, Pixel Shader 5.0 技術</li> <li>- 最大共享記憶體 2GB</li> <li>- 雙 VGA 輸出: 透過獨立顯示控制器提供 DVI 和 D-Sub 接口</li> <li>- 支援 Dual-link DVI, 最高解析度達 2560x1600 @ 75Hz</li> <li>- 支援 D-Sub, 最高解析度達 1920x1600 @ 60Hz</li> <li>- 支援 AMD Steady Video™ 2.0: 最新影像後處理能力, 可為家庭 / 線上影像提供自動降低手震的功能</li> <li>- DVI 接口支援 HDCP 功能</li> <li>- DVI 接口可播放 1080p 藍光光碟 (BD) / HD-DVD 光碟</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> </ul>
網路功能	<ul style="list-style-type: none"> <li>- PCIe x1 Gigabit LAN 10/100/1000 Mb/s</li> <li>- Realtek RTL8111E</li> <li>- 支援網路喚醒 (Wake-On-LAN)</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 (後背板輸入 / 輸出接口)	<p>I/O 界面</p> <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 D-Sub 接口</li> <li>- 1 個 DVI-D 接口</li> </ul>

	<ul style="list-style-type: none"> <li>- 4 個可直接使用的 USB 2.0 接口</li> <li>- 2 個可直接使用的 USB 3.0 接口</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：音效輸入 / 前置喇叭 / 麥克風</li> </ul>
SATA3	<ul style="list-style-type: none"> <li>- 6 x SATA3 6.0Gb/s 接頭，支援 RAID (RAID 0, RAID 1 和 RAID 10), NCQ, AHCI 和熱插拔功能</li> </ul>
USB 3.0	<ul style="list-style-type: none"> <li>- 2 x 後置 USB 3.0 接口，支援 USB 1.1/2.0/3.0 到 5Gb/s</li> <li>- 1 x 前置 USB 3.0 接頭 (支援 2 個 USB 3.0 接口)，支援 USB 1.1/2.0/3.0 到 5Gb/s</li> </ul>
接頭	<ul style="list-style-type: none"> <li>- 6 x SATA3 6.0Gb/s 接頭</li> <li>- 1 x 印表機接針</li> <li>- 1 x 序列埠</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>- 24 針 ATX 電源接頭</li> <li>- 4 針 12V 電源接頭</li> <li>- 前置音效接頭</li> <li>- 2 x USB 2.0 接頭 (可支援 4 個額外的 USB 2.0 接口)</li> <li>- 1 x USB 3.0 接頭 (可支援 2 個額外的 USB 3.0 接口)</li> </ul>
BIOS	<ul style="list-style-type: none"> <li>- 64Mb AMI BIOS</li> <li>- AMI UEFI Legal BIOS (支援 GUI)</li> <li>- 支援即插即用 (Plug and Play, PnP)</li> <li>- ACPI 1.1 電源管理</li> <li>- 支援喚醒功能</li> <li>- 支援 jumperfree 免跳線模式</li> <li>- DRAM、VDDP、VDDR、SB 電壓多功能調節</li> </ul>
支援光碟	<ul style="list-style-type: none"> <li>- 驅動程式、工具軟體、防毒軟體 (試用版本)、CyberLink MediaEspresso 6.5 試用版、Google Chrome Browser 和 Toolbar</li> </ul>
硬體監控	<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/ 機箱靜音風扇</li> <li>- CPU/ 機箱風扇多速控制</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	<ul style="list-style-type: none"> <li>- Microsoft® Windows® 8/8 64 位元 /7/7 64 位元 /Vista™/ Vista™ 64 位元</li> </ul>

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認證	<ul style="list-style-type: none"><li>- FCC, CE, WHQL</li><li>- 支援 ErP/EuP ( 需要同時使用支援 ErP/EuP 的電源供應器 )</li></ul>
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\* 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>- Menggunakan Stopkontak FM2 100W processor</li> <li>- Dapat digunakan AM's Cool 'n' Quiet™ Technology</li> <li>- UMI-Link GEN2</li> </ul>
<b>Grup Chip</b>	<ul style="list-style-type: none"> <li>- AMD A75 FCH (Hudson-D3)</li> </ul>
<b>Ingatan</b>	<ul style="list-style-type: none"> <li>- Teknologi ingatan DDR3 dwisalurkan</li> <li>- 2 x Alur DDR3 DIMM</li> <li>- Menggunakan 1866/1600/1333/1066</li> <li>- Kapasitas paling banyak: 32GB</li> <li>- Mendukung Intel® Extreme Memory Profile (XMP) 1.3/1.2</li> <li>- Mendukung AMD Memory Profile (AMP)</li> </ul>
<b>Alur Ekspansi</b>	<ul style="list-style-type: none"> <li>- 1 x PCI Express 2.0 x16 slot (PCIE1: x16 mode)</li> <li>- 1 x PCI Express 2.0 x1 slot</li> <li>- 1 x PCI slot</li> <li>- Mendukung AMD Dual Graphics</li> </ul>
<b>Diagram</b>	<ul style="list-style-type: none"> <li>- AMD Radeon HD 7000 Graphics</li> <li>- DirectX 11, Pixel Shader 5.0</li> <li>- Ingatan sama Max. 2GB</li> <li>- Output VGA Ganda: mendukung port DVI dan D-Sub melalui pengontrol tampilan independen</li> <li>- Mendukung Dual-link DVI dengan resolusi maksimal hingga 2560x1600 @ 75Hz</li> <li>- Mendukung D-Sub dengan resolusi maksimal hingga 1920x1600 @ 60Hz</li> <li>- Mendukung AMD Video™ 2.0 Tenang: Baru video pasca kemampuan pengolahan untuk pengurangan jutter otomatis pada rumah / online video</li> <li>- Mendukung fungsi HDCP dengan port DVI</li> <li>- Mendukung pemutaran 1080p Blu-ray (BD) / HD-DVD dengan port DVI</li> </ul>
<b>Audio</b>	<ul style="list-style-type: none"> <li>- 5.1 CH HD Audio (Realtek ALC662 Audio Codec)</li> </ul>
<b>LAN</b>	<ul style="list-style-type: none"> <li>- PCIE x1 Gigabit LAN 10/100/1000 Mb/s</li> <li>- Realtek RTL8111E</li> <li>- Menggunakan Wake-On-LAN</li> <li>- Mendukung Deteksi Kabel LAN</li> <li>- Mendukung Energy Efficient Ethernet 802.3az</li> <li>- Mendukung PXE</li> </ul>



<b>Papan Belakang I/O</b>	<p>I/O Panel</p> <ul style="list-style-type: none"> <li>- 1 x Port Mouse PS/2</li> <li>- 1 x Port Keyboard PS/2</li> <li>- 1 x Port D-Sub</li> <li>- 1 x Port DVI-D</li> <li>- 4 x Port USB 2.0 siap-dipakai</li> <li>- 2 x Port USB 3.0 siap-dipakai</li> <li>- 1 x RJ-45 LAN Port LED (ACT/LINK LED dan SPEED LED)</li> <li>- HD Audio Jack: Line in/Penyuara Depan/mikropon</li> </ul>
<b>SATA3</b>	<ul style="list-style-type: none"> <li>- 6 x penghubung SATA3 6.0Gb/s, dapat digunakan RAID (RAID 0, RAID 1 dan RAID 10), NCQ, AHCI dan fungsi fungsi "Hot Plug"</li> </ul>
<b>USB 3.0</b>	<ul style="list-style-type: none"> <li>- 2 x Port Belakang USB 3.0, mendukung USB 1.1/2.0/3.0 hingga 5Gb/s</li> <li>- 1 x Port Depan USB 3.0 (menggunkan 2 port USB 3.0), mendukung USB 1.1/2.0/3.0 hingga 5Gb/s</li> </ul>
<b>Penghubung</b>	<ul style="list-style-type: none"> <li>- 6 x penghubung SATA3 6.0Gb/s</li> <li>- 1 x port header Print</li> <li>- 1 x port header COM</li> <li>- 1 x Chassis Intrusion header</li> <li>- 1 x Penghubung KIPAS CPU (4 pin)</li> <li>- 1 x Penghubung KIPAS casing (4 pin)</li> <li>- 1 x Penghubung KIPAS Power (3 pin)</li> <li>- Penghubung power 24 pin ATX</li> <li>- Penghubung power 4 pin 12V</li> <li>- Penghubung audio panel depan</li> <li>- 2 x USB 2.0 header (menggunkan 4 port USB 2.0)</li> <li>- 1 x USB 3.0 header (menggunkan 2 port USB 3.0)</li> </ul>
<b>Ciri-ciri BIOS</b>	<ul style="list-style-type: none"> <li>- 64Mb AMI Legal BIOS</li> <li>- AMI UEFI Legal BIOS dengan dukungan GUI</li> <li>- Menggunakan "Plug and Play"</li> <li>- ACPI 1.1 Compliance Wake Up Events</li> <li>- Menggunakan jumperfree</li> <li>- Penyokong AMBIOS 2.3.1</li> <li>- Penyesuaian berbagai tegangan DRAM, VDDP, VDDR, SB</li> </ul>
<b>Sokongan CD</b>	<ul style="list-style-type: none"> <li>- Penggerak, kegunaan, Software AntiVirus (Versi Cobaan), CyberLink MediaEspresso 6.5 Trial, Google Chrome Browser dan Toolbar</li> </ul>
<b>Penjaga Hardware</b>	<ul style="list-style-type: none"> <li>- Perasa Suhu CPU</li> <li>- Perasa Suhu Casing</li> <li>- Pengukur Kipas CPU/casing/Power</li> </ul>

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	<ul style="list-style-type: none"><li>- Kipas diam CPU/casis</li><li>- Kontrol Multi-Kecepatan Kipas CPU/casis</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® 8 / 8 64-bit / 7 / 7 64-bit / Vista™ / Vista™ 64-bit</li></ul>
<b>Sertifikasi</b>	<ul style="list-style-type: none"><li>- FCC, CE, WHQL</li><li>- ErP/EuP Ready (memerlukan catu daya ErP/EuP ready)</li></ul>

\* Untuk informasi rinci, silakan kunjungi website kami: <http://www.asrock.com>

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## **Installing OS on a HDD Larger Than 2TB**

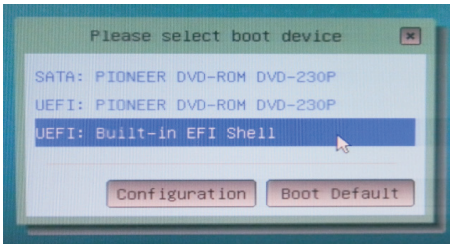
This motherboard is adopting UEFI BIOS that allows Windows® OS to be installed on a large size HDD (>2TB). Please follow below procedure to install the operating system.

1. Please make sure to use **Windows® Vista™ 64-bit (with SP1 or above), Windows® 7 64-bit or Windows® 8 64-bit.**
2. Press <F2> or <Delete> at system POST. Set **AHCI Mode** in UEFI Setup Utility > Advanced > Storage Configuration > SATA Mode.
3. Choose the item **“UEFI:xxx”** to boot in UEFI Setup Utility > Boot > Boot Option #1. (“xxx” is the device which contains your Windows® installation files. Normally it is an optical drive.) You can also press <F11> to launch boot menu at system POST and choose the item **“UEFI:xxx”** to boot.
4. Start Windows® installation.

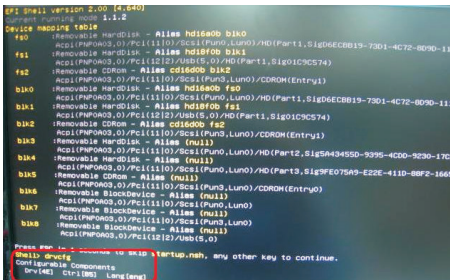
## Installing OS on a HDD Larger Than 2TB in RAID Mode

This motherboard is adopting UEFI BIOS that allows Windows® OS to be installed on a large size HDD (>2TB). Please follow below procedure to install the operating system.

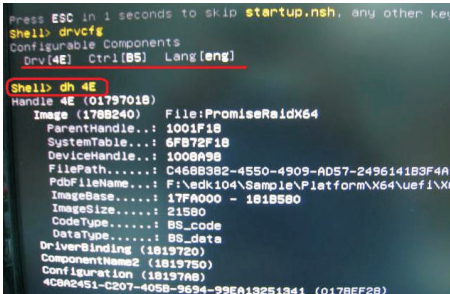
1. Please make sure to use **Windows® Vista™ 64-bit (with SP1 or above)**, **Windows® 7 64-bit** or **Windows® 8 64-bit**.
2. Press <F2> or <Delete> at system POST. Set **RAID Mode** in UEFI Setup Utility > Advanced > Storage Configuration > SATA Mode.
3. Choose **onboard RAID 3TB+ unlocker > UEFI Mode For GPT partition**. Press <F10> to save the change and exit.
4. Press <F11> to enter Boot Manual. Choose **UEFI : Built - in EFI Shell**.



5. Key in `drvcfg`, for example you will see below:  
**Drv[4E] Ctrl[B5] Lang[eng]**



6. Key in `dh [Drv number]`, for example: key in **dh 4E**.



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## **Installing OS on a HDD Larger Than 2TB**

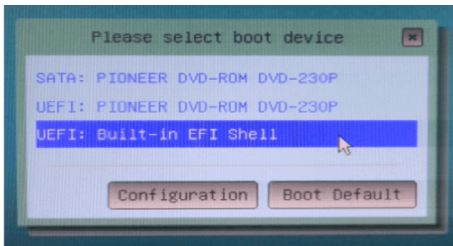
This motherboard is adopting UEFI BIOS that allows Windows® OS to be installed on a large size HDD (>2TB). Please follow below procedure to install the operating system.

1. Please make sure to use **Windows® Vista™ 64-bit (with SP1 or above), Windows® 7 64-bit or Windows® 8 64-bit.**
2. Press <F2> or <Delete> at system POST. Set **AHCI Mode** in UEFI Setup Utility > Advanced > Storage Configuration > SATA Mode.
3. Choose the item **“UEFI:xxx”** to boot in UEFI Setup Utility > Boot > Boot Option #1. (“xxx” is the device which contains your Windows® installation files. Normally it is an optical drive.) You can also press <F11> to launch boot menu at system POST and choose the item **“UEFI:xxx”** to boot.
4. Start Windows® installation.

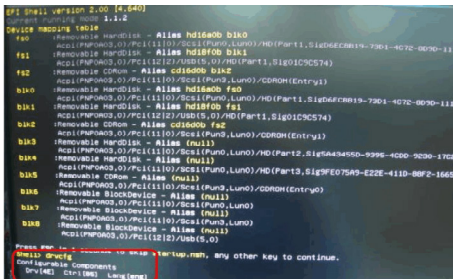
## Installing OS on a HDD Larger Than 2TB in RAID Mode

This motherboard is adopting UEFI BIOS that allows Windows® OS to be installed on a large size HDD (>2TB). Please follow below procedure to install the operating system.

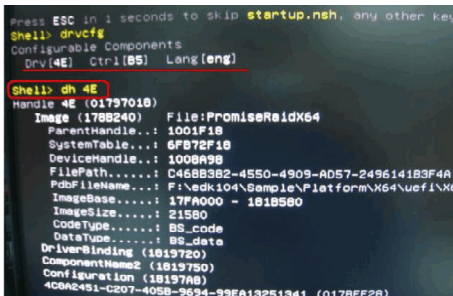
1. Please make sure to use **Windows® Vista™ 64-bit (with SP1 or above)**, **Windows® 7 64-bit** or **Windows® 8 64-bit**.
2. Press <F2> or <Delete> at system POST. Set **RAID Mode** in UEFI Setup Utility > Advanced > Storage Configuration > SATA Mode.
3. Choose **onboard RAID 3TB+ unlocker > UEFI Mode For GPT partition**. Press <F10> to save the change and exit.
4. Press <F11> to enter Boot Manual. Choose **UEFI : Built - in EFI Shell**.



5. Key in `drvcfg`, for example you will see below:  
**Drv[4E] Ctrl[B5] Lang[eng]**



6. Key in `dh [Drv number]`, for example: key in **dh 4E**.



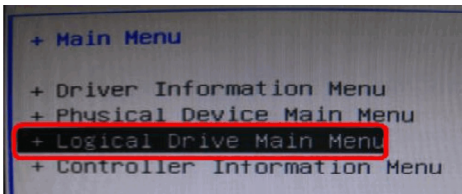
7. And then key in `drvcfg -s [Drv number] [Ctrl number]` to enter Raid Utility.  
For example: key in `drvcfg -s 4E B5`.

```
Press ESC in 4 seconds to skip startup.nsh, any other key to enter the Shell.
Shell> drvcfg
Configurable Components
Drv(4E) Ctrl(B5) Lang(eng)

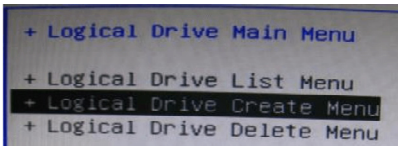
Shell> dh 4E
Handle 4E (01797018)
Image (178B240) File:PromiseRaidX64
ParentHandle...: 1001F18
SystemTable...: 6FB72F18
DeviceHandle...: 1008A98
FilePath.....: C468B382-4550-4909-AD57-2496141B3F
PdfFileName...: F:\edk104\Sample\Platform\X64\uefi
ImageBase.....: 17FA000 - 181B500
ImageSize.....: 21580
CodeType.....: BS_Code
DataType.....: BS_data
DriverBinding (1819720)
ComponentName2 (1819750)
Configuration (18197A8)
4CB2451-C207-405B-9694-99EA13251341 (017BEF28)

Shell> drvcfg -s 4E B5
```

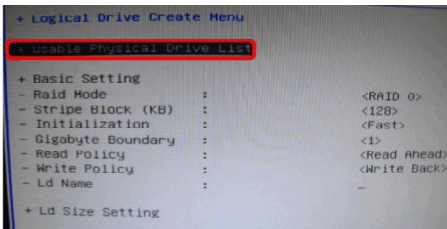
8. Choose **Logical Drive Main Menu** to set up Raid Drive.



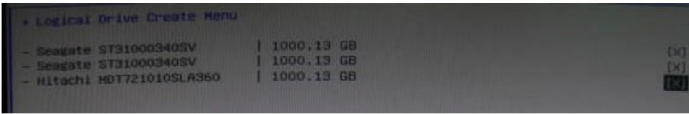
9. Choose **Logical Drive Create Menu** to create a Raid Drive.



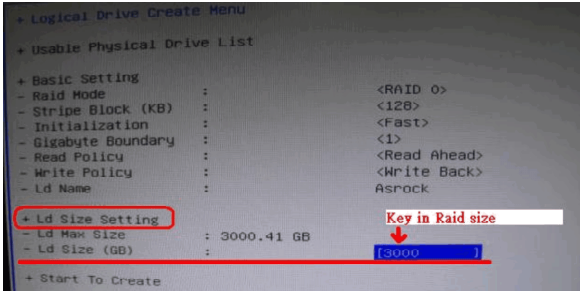
10. Choose **Usable Physical Drive List** to select Raid HDD.



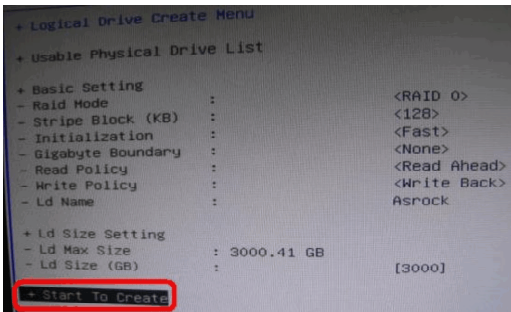
11. Press **Space** on keyboard to toggle checkbox.



12. Choose **Ld Size setting**, and key in the Raid size.

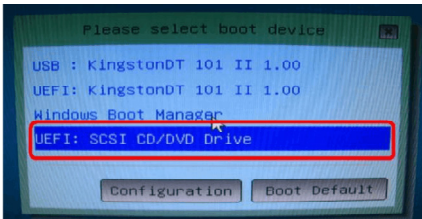


13. After set up Raid size, please click **Start to Create**.



14. Press **<F10>** to exit Utility.

15. During reboot, please press **<F11>** to enter Boot Manual. Choose **UEFI: SCSI CD/DVD Drive**.



\* This option only shows on Windows® 8 64-bit, 7 64-bit and Vista™ 64-bit OS.



16. Follow Windows® Installation Guide to install OS.

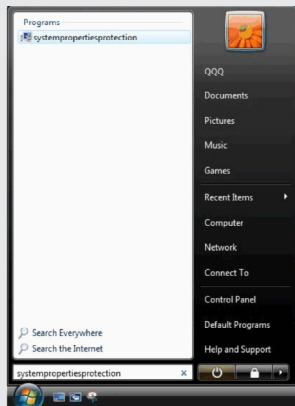
If you install Windows® 8 64-bit / 7 64-bit / Vista™ 64-bit in a large hard disk (ex. Disk volume > 2TB), it may take more time to boot into Windows® or install driver/utilities. If you encounter this problem, you will need to following instructions to fix this problem.

**Windows® Vista™ 64-bit:**

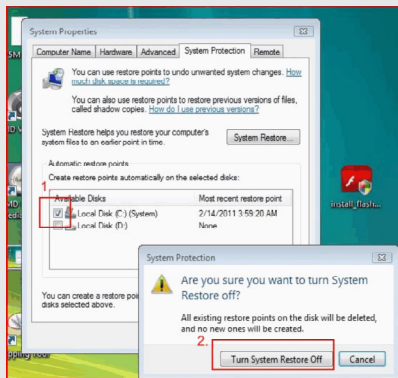
Microsoft® does not provide hotfix for this problem. Below steps are Microsoft® suggested solution:

A. Disable System Restore.

a. Type “systempropertiesprotection” in the Start Menu. Then press “Enter”.

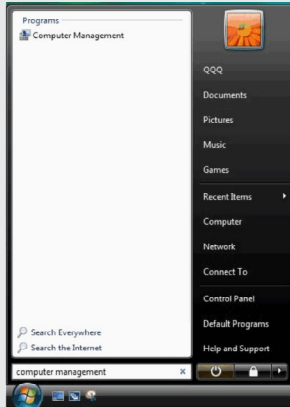


b. De-select Local Disks for System Restore. Then Click “Turn System Restore Off” to confirm. Then Press “Ok”.

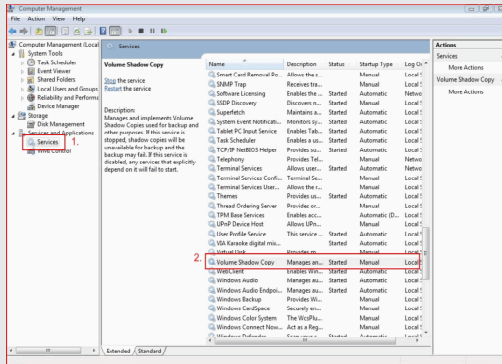


B. Disable “Volume Shadow Copy” service.

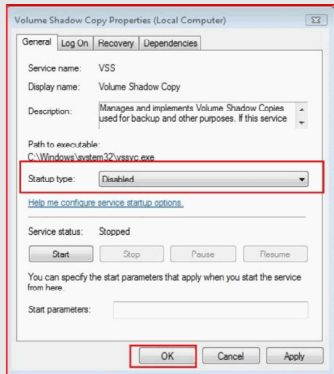
a. Type “computer management” in the Start Menu, then press “Enter”.



b. Go to “Services and Applications>Services”; Then double click “Volume Shadow Copy”.



c. Set “Startup type” to “Disable” then Click “OK”.



- 
- C. Reboot your system.
  - D. After reboot, please start to install motherboard drivers and utilities.

**Windows® 8 64-bit / 7 64-bit:**

- A. Please request the hotfix KB2505454 thru this link:  
<http://support.microsoft.com/kb/2505454/>
- B. After installing Windows® 8 64-bit / 7 64-bit, install the hotfix kb2505454.  
(This may take long time; >30 mins.)
- C. Reboot your system. (It may take about 5 mins to boot.)
- D. The Windows® will install this hotfix then reboot by itself.
- E. Please start to install motherboard drivers and utilities.

17. Finish.