

Version 1.0

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

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

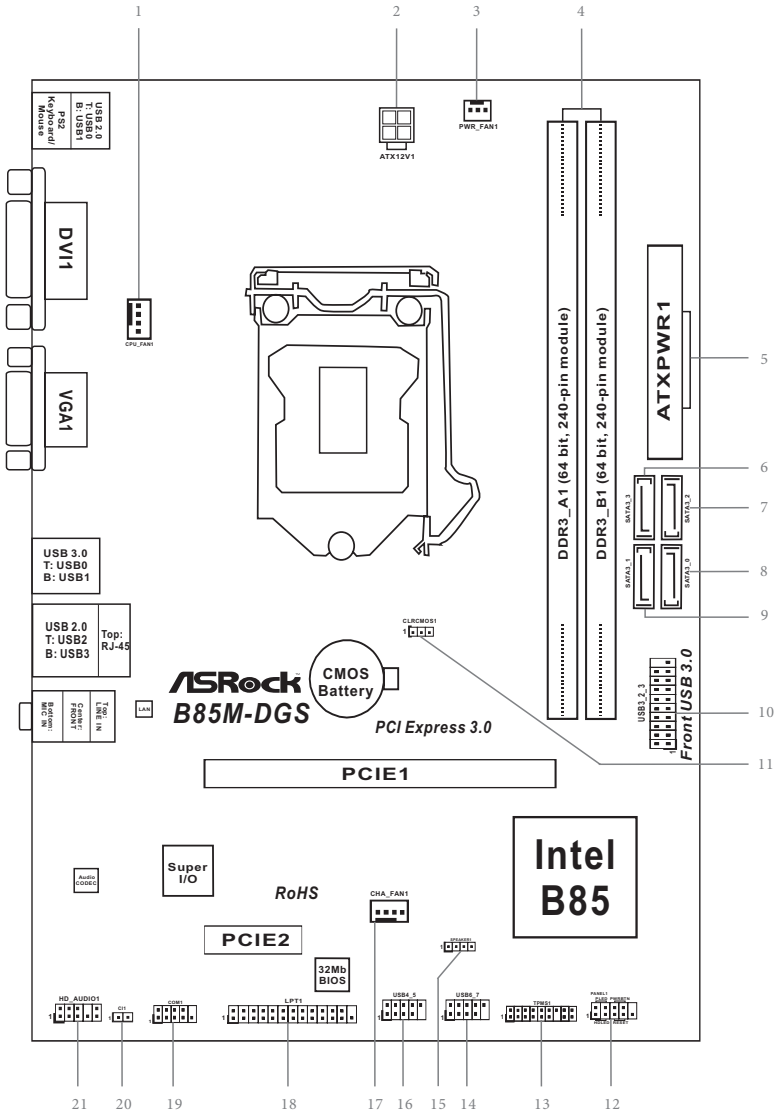
CALIFORNIA, USA ONLY

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

“Perchlorate Material-special handling may apply, see www.dtsc.ca.gov/hazardouswaste/perchlorate”

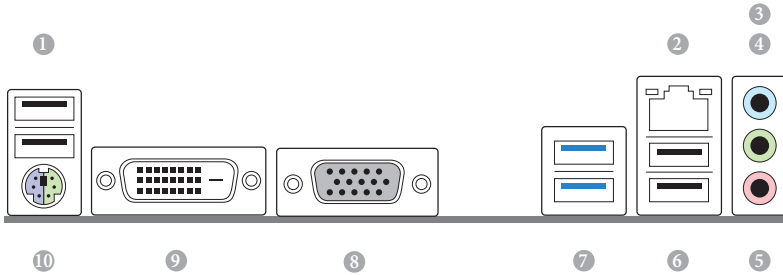
ASRock Website: <http://www.asrock.com>

Motherboard Layout



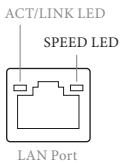
No.	Description
1	CPU Fan Connector (CPU_FAN1)
2	ATX 12V Power Connector (ATX12V1)
3	Power Fan Connector (PWR_FAN1)
4	2 x 240-pin DDR3 DIMM Slots (DDR3_A1, DDR3_B1)
5	ATX Power Connector (ATXPWR1)
6	SATA3 Connector (SATA3_3)
7	SATA3 Connector (SATA3_2)
8	SATA3 Connector (SATA3_0)
9	SATA3 Connector (SATA3_1)
10	USB 3.0 Header (USB3_2_3)
11	Clear CMOS Jumper (CLRCMOS1)
12	System Panel Header (PANEL1)
13	TPM Header (TPMS1)
14	USB 2.0 Header (USB6_7)
15	Chassis Speaker Header (SPEAKER1)
16	USB 2.0 Header (USB4_5)
17	Chassis Fan Connector (CHA_FAN1)
18	Print Port Header (LPT1)
19	COM Port Header (COM1)
20	Chassis Intrusion Header (CI1)
21	Front Panel Audio Header (HD_AUDIO1)

I/O Panel



No.	Description	No.	Description
1	USB 2.0 Ports (USB01)	6	USB 2.0 Ports (USB23)
2	LAN RJ-45 Port*	7	USB 3.0 Ports (USB3_01)
3	Line In (Light Blue)	8	D-Sub Port
4	Front Speaker (Lime)	9	DVI-D Port
5	Microphone (Pink)	10	PS/2 Mouse/Keyboard Port

* There are two LEDs on each LAN port. Please refer to the table below for the 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

1 Introduction

Thank you for purchasing ASRock B85M-DGS 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.



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

1.1 Package Contents

- ASRock B85M-DGS Motherboard (Micro ATX Form Factor)
- ASRock B85M-DGS Quick Installation Guide
- ASRock B85M-DGS Support CD
- 2 x Serial ATA (SATA) Data Cables (Optional)
- 1 x I/O Panel Shield

1.2 Specifications

- Platform**
- Micro ATX Form Factor
 - All Solid Capacitor design
 - High Density Glass Fabric PCB

- CPU**
- Supports New 4th and 4th Generation Intel® Core™ i7/i5/i3/ Xeon®/Pentium®/Celeron® Processors (Socket 1150)
 - Supports Intel® Turbo Boost 2.0 Technology

- Chipset**
- Intel® B85

- Memory**
- Dual Channel DDR3 Memory Technology
 - 2 x DDR3 DIMM Slots
 - Supports DDR3 1600/1333/1066 non-ECC, un-buffered memory
 - Max. capacity of system memory: 16GB (see CAUTION)
 - Supports Intel® Extreme Memory Profile (XMP) 1.3 / 1.2

- Expansion Slot**
- 1 x PCI Express 3.0 x16 Slot (PCIe1: x16 mode)
 - 1 x PCI Express 2.0 x1 Slot

- Graphics**
- Intel® HD Graphics Built-in Visuals and the VGA outputs can be supported only with processors which are GPU integrated.
 - Supports Intel® HD Graphics Built-in Visuals : Intel® Quick Sync Video with AVC, MVC (S3D) and MPEG-2 Full HW Encode1, Intel® InTru™ 3D, Intel® Clear Video HD Technology, Intel® Insider™, Intel® HD Graphics 4400/4600
 - Pixel Shader 5.0, DirectX 11.1
 - Max. shared memory 1792MB
 - Dual graphics output: support DVI-D and D-Sub by independent display controllers
 - Supports DVI-D with max. resolution up to 1920x1200 @ 60Hz
 - Supports D-Sub with max. resolution up to 1920x1200 @ 60Hz
 - Supports HDCP with DVI-D Port
 - Supports Full HD 1080p Blu-ray (BD) playback with DVI-D Port

- **Audio**
- 5.1 CH HD Audio (Realtek ALC662 Audio Codec)
- Supports Surge Protection (ASRock Full Spike Protection)

- **LAN**
- PCIE x1 Gigabit LAN 10/100/1000 Mb/s
- Realtek RTL8111GR
- Supports Wake-On-WAN
- Supports Wake-On-LAN
- Supports Lightning/ESD Protection (ASRock Full Spike Protection)
- Supports LAN Cable Detection
- Supports Energy Efficient Ethernet 802.3az
- Supports PXE

- **Rear Panel I/O**
- 1 x PS/2 Mouse/Keyboard Port
- 1 x D-Sub Port
- 1 x DVI-D Port
- 4 x USB 2.0 Ports (Supports ESD Protection (ASRock Full Spike Protection))
- 2 x USB 3.0 Ports (Supports ESD Protection (ASRock Full Spike Protection))
- 1 x RJ-45 LAN Port with LED (ACT/LINK LED and SPEED LED)
- HD Audio Jacks: Line in / Front Speaker / Microphone

- **Storage**
- 4 x SATA3 6.0 Gb/s Connectors, support NCQ, AHCI and Hot Plug

- **Connector**
- 1 x Print Port Header
- 1 x COM Port Header
- 1 x Chassis Intrusion Header
- 1 x TPM Header
- 1 x CPU Fan Connector (4-pin)
- 1 x Chassis Fan Connector (4-pin)
- 1 x Power Fan Connector (3-pin)
- 1 x 24 pin ATX Power Connector
- 1 x 4 pin 12V Power Connector
- 1 x Front Panel Audio Connector

- 2 x USB 2.0 Headers (Support 4 USB 2.0 ports) (Supports ESD Protection (ASRock Full Spike Protection))
- 1 x USB 3.0 Header (Supports 2 USB 3.0 ports) (Supports ESD Protection (ASRock Full Spike Protection))

BIOS Feature

- 32Mb AMI UEFI Legal BIOS with multilingual GUI support
- ACPI 1.1 Compliant wake up events
- SMBIOS 2.3.1 support
- CPU, DRAM, PCH 1.05V, PCH 1.5V Voltage multi-adjustment

Hardware Monitor

- CPU/Chassis temperature sensing
- CPU/Chassis/Power Fan Tachometer
- CPU/Chassis Quiet Fan (Auto adjust chassis fan speed by CPU temperature)
- CPU/Chassis Fan multi-speed control
- CASE OPEN detection
- Voltage monitoring: +12V, +5V, +3.3V, CPU Vcore

OS

- Microsoft® Windows® 8.1 32-bit / 8.1 64-bit / 8 32-bit / 8 64-bit / 7 32-bit / 7 64-bit

Certifica- tions

- FCC, CE, WHQL
- ErP/EuP ready (ErP/EuP ready power supply is required)

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



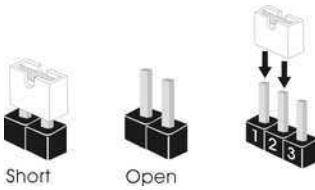
Please realize that there is a certain risk involved with overclocking, including adjusting the setting in the BIOS, applying Untied Overclocking Technology, or using third-party overclocking tools. Overclocking may affect your system's stability, or even cause damage to the components and devices of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



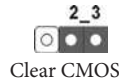
Due to limitation, the actual memory size may be less than 4GB for the reservation for system usage under Windows® 32-bit operating systems. Windows® 64-bit operating systems do not have such limitations. You can use ASRock XFast RAM to utilize the memory that Windows® cannot use.

1.3 Jumpers Setup

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



Clear CMOS Jumper
(CLR CMOS1)
(see p.1, No. 11)



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, and user default profile will be cleared only if the CMOS battery is removed.



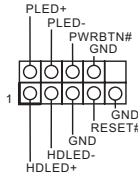
If you clear the CMOS, the case open may be detected. Please adjust the BIOS option “Clear Status” to clear the record of previous chassis intrusion status.

1.4 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 to the motherboard.

System Panel Header
(9-pin PANEL1)
(see p.1, No. 12)



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/S3 sleep state. The LED is off when the system is in S4 sleep state or powered off (S5).

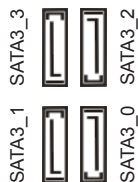
HDLED (Hard Drive Activity LED):

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.

Serial ATA3 Connectors

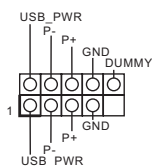
(SATA3_0:
see p.1, No. 8)
(SATA3_1:
see p.1, No. 9)
(SATA3_2:
see p.1, No. 7)
(SATA3_3:
see p.1, No. 6)



These four SATA3 connectors support SATA data cables for internal storage devices with up to 6.0 Gb/s data transfer rate.

USB 2.0 Headers

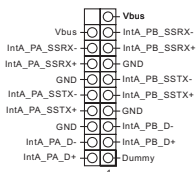
(9-pin USB4_5)
(see p.1, No. 16)
(9-pin USB6_7)
(see p.1, No. 14)



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

USB 3.0 Header

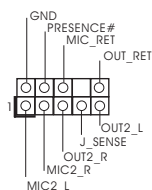
(19-pin USB3_2_3)
(see p.1, No. 10)



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

Front Panel Audio Header

(9-pin HD_AUDIO1)
(see p.1, No. 21)

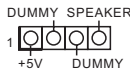


This header is for connecting audio devices to the front audio panel.



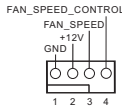
1. High Definition Audio supports Jack Sensing, but the panel wire on the chassis must support HDA to function correctly. Please follow the instructions in our manual and chassis manual to install your system.
2. If you use an AC'97 audio panel, please install it to the front panel audio header by the steps 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 the HD audio panel only. You don't need to connect them for the AC'97 audio panel.
 - E. To activate the front mic, go to the "FrontMic" Tab in the Realtek Control panel and adjust "Recording Volume".

Chassis Speaker Header
(4-pin SPEAKER1)
(see p.1, No. 15)



Please connect the chassis speaker to this header.

Chassis and Power Fan Connectors
(4-pin CHA_FAN1)
(see p.1, No. 17)

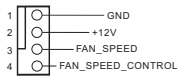


Please connect fan cables to the fan connectors and match the black wire to the ground pin.

(3-pin PWR_FAN1)
(see p.1, No. 3)

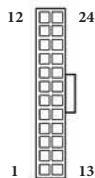


CPU Fan Connector
(4-pin CPU_FAN1)
(see p.1, No. 1)



This motherboard provides a 4-Pin CPU fan (Quiet Fan) connector. If you plan to connect a 3-Pin CPU fan, please connect it to Pin 1-3.

ATX Power Connector
(24-pin ATXPWR1)
(see p.1, No. 5)



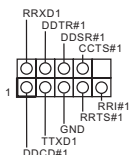
This motherboard provides a 24-pin ATX power connector. To use a 20-pin ATX power supply, please plug it along Pin 1 and Pin 13.

ATX 12V Power Connector
(4-pin ATX12V1)
(see p.1, No. 2)



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

Serial Port Header
(9-pin COM1)
(see p.1, No. 19)



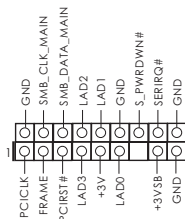
This COM1 header supports a serial port module.

Chassis Intrusion Header
(2-pin CI1)
(see p.1, No. 20)



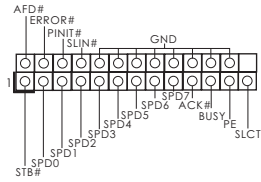
This motherboard supports CASE OPEN detection feature that detects if the chassis cover has been removed. This feature requires a chassis with chassis intrusion detection design.

TPM Header
(17-pin TPMS1)
(see p.1, No. 13)



This connector supports Trusted Platform Module (TPM) system, which can securely store keys, digital certificates, passwords, and data. A TPM system also helps enhance network security, protects digital identities, and ensures platform integrity.

Print Port Header
 (25-pin LPT1)
 (see p.1, No. 18)



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

Technische Daten

Plattform	<ul style="list-style-type: none">• Micro-ATX-Formfaktor• Vollständig solides Kondensatordesign• Leiterplatte mit hochdichtem Glasgewebe
Prozessor	<ul style="list-style-type: none">• Unterstützt Intel® Core™ i7/i5/i3/Xeon®/Pentium®/Celeron®-Prozessoren (Sockel 1150) der 4. und neuen 4. Generation• Unterstützt Intel® Turbo Boost 2.0-Technologie
Chipsatz	<ul style="list-style-type: none">• Intel® B85
Speicher	<ul style="list-style-type: none">• Dualkanal-DDR3-Speichertechnologie• 2 x DDR3-DIMM-Steckplätze• Unterstützt DDR3 1600/1333/1066 non-ECC, ungepufferter Speicher• Systemspeicher, max. Kapazität: 16GB• Unterstützt Intel® Extreme Memory Profile (XMP)1.3/1.2
Erweiterungssteckplatz	<ul style="list-style-type: none">• 1 x PCI-Express 3,0-x16-Steckplatz (PCI-E1: x16-Modus)• 1 x PCI-Express 2,0-x1-Steckplatz
Grafikkarte	<ul style="list-style-type: none">• Integrierte Intel® HD Graphics-Visualisierung und VGA-Ausgänge können nur mit Prozessoren unterstützt werden, die GPU-integriert sind.• Unterstützt integrierte Intel® HD Graphics-Visualisierung: Intel® Quick Sync Video mit AVC, MVC (S3D) und MPEG-2 Full HW Encode1, Intel® InTru™ 3D, Intel® Clear Video HD Technology, Intel® Insider™, Intel® HD Graphics 4400/4600• Pixel Shader 5.0, DirectX 11.1• Max. geteilter Speicher: 1792 MB• Doppel-VGA Ausgabe: unterstützt DVI-D und D-Sub Ports durch unabhängige Bildschirmanzeige Kontrolleure• Unterstützt DVI-D mit maximaler Auflösung von 1920 x 1200 bei 60 Hz• Unterstützt D-Sub mit maximaler Auflösung von 1920 x 1200 bei 60 Hz• Unterstützt HDCP-Funktion mit DVI-D-Port• Unterstützt Blu-ray- (BD) Wiedergabe (Full HD/1080p) mit DVI-D-Port

Audio

- 5.1-Kanal-HD-Audio (Realtek ALC662-Audiocodec)
- Unterstützt Überspannungsschutz (ASRock Full Spike Protection)

LAN

- PCIE x1 Gigabit LAN 10/100/1000 Mb/s
- Realtek RTL8111GR
- Unterstützt Wake-On-WAN
- Unterstützt Wake-On-LAN
- Unterstützt Schutz vor Blitzschlag/elektrostatischer Entladung (ASRocks Komplettschutz vor Spannungsspitzen)
- Unterstützt LAN-Kabelerkennung
- Unterstützt energieeffizientes Ethernet 802.3az
- Unterstützt PXE

**Rückblende,
E/A**

- 1 x PS/2-Maus-/Tastaturanschluss
- 1 x D-Sub-Port
- 1 x DVI-D-Port
- 4 x USB 2.0-Ports (Unterstützt Schutz vor elektrostatisher Entladung (ASRocks Komplettschutz vor Spannungsspitzen))
- 2 x USB 3.0-Ports (Unterstützt Schutz vor elektrostatisher Entladung (ASRocks Komplettschutz vor Spannungsspitzen))
- 1 x RJ-45-LAN-Port mit LED (Aktivität/Verbindung-LED und Geschwindigkeit-LED)
- HD-Audioanschluss: Line-in / Vorderer Lautsprecher / Mikrofon

Speicher

- 4 x SATA-III-6,0-Gb/s-Anschlüsse, unterstützt NCQ, AHCI und „Hot-Plugging“-Funktionen

Anschluss

- 1 x Druckanschluss-Stiftleiste
- 1 x COM-Anschluss-Stiftleiste
- 1 x Gehäuseeingriff-Stiftleiste
- 1 x TPM-Stiftleiste
- 1 x CPU-Lüfteranschluss (4-polig)
- 1 x Gehäuselüfteranschluss (4-polig)
- 1 x Netzteilüfteranschluss (3-polig)
- 1 x 24-poliger ATX-Netzanschluss
- 1 x 4-poliger 12-V-Netzanschluss
- 1 x Audioanschluss an Frontblende

- 2 x USB 2.0-Stiftleisten (unterstützt vier USB 2.0-Ports)
(Unterstützt Schutz vor elektrostatischer Entladung (ASROcks Komplettschutz vor Spannungsspitzen))
- 1 x USB 3.0-Stiftleiste (unterstützt zwei USB 3.0-Ports)
(Unterstützt Schutz vor elektrostatischer Entladung (ASROcks Komplettschutz vor Spannungsspitzen))

BIOS- Funktion

- 32-Mb-AMI-UEFI-Legal-BIOS mit Unterstützung mehrsprachiger grafischer Benutzerschnittstellen
- ACPI 1.1-konforme Aufweckereignisse
- SMBIOS 2.3.1-Unterstützung
- CPU, DRAM, PCH 1,05 V, PCH 1,5 V / Mehrfachspannungsanpassung

Hardware- überwachung

- CPU-/Gehäusetemperaturerkennung
- CPU/Gehäuse/Netzteil-Lüftertachometer
- Lautloser CPU-/Gehäuselüfter (ermöglicht automatische Anpassung der Geschwindigkeit des Gehäuselüfters über die CPU-Temperatur)
- CPU/Gehäuselüfter-Mehrfachgeschwindigkeitssteuerung
- Gehäuse-offen-Erkennung
- Spannungsüberwachung: +12 V, +5 V, +3,3 V, CPU Vcore

Betriebssystem

- Microsoft® Windows® 8.1, 32 Bit / 8.1, 64 Bit / 8, 32 Bit / 8, 64 Bit / 7, 32 Bit / 7, 64 Bit

Zertifizierungen

- FCC, CE, WHQL
- ErP/EuP ready (ErP/EuP ready-Netzteil erforderlich)

Spécifications

Plateforme	<ul style="list-style-type: none"> • Facteur de forme Micro ATX • Conception à condensateurs solides • PCB en tissu de verre haute densité
Processeur	<ul style="list-style-type: none"> • Prend en charge les processeurs Intel® Core™ i7/i5/i3/Xeon®/Pentium®/Celeron® 4e, nouvelle 4e génération (socket 1150) • Prend en charge la technologie Intel® Turbo Boost 2.0
Chipset	<ul style="list-style-type: none"> • Intel® B85
Mémoire	<ul style="list-style-type: none"> • Technologie mémoire double canal DDR3 • 2 x fentes DIMM DDR3 • Prend en charge les mémoires sans tampon non ECC DDR3 1600/1333/1066 • Capacité max. de la mémoire système : 16Go • Prend en charge Intel® Extreme Memory Profile (XMP)1.3/1.2
Fente d'expansion	<ul style="list-style-type: none"> • 1 x fente PCI Express 3.0 x 16 (PCIE1: mode x16) • 1 x fente PCI Express 2.0 x 1
Graphiques	<ul style="list-style-type: none"> • La technologie Intel® HD Graphics Built-in Visuals et les sorties VGA sont uniquement prises en charge par les processeurs intégrant un contrôleur graphique. • Prend en charge la technologie Intel® HD Graphics Built-in Visuals : Intel® Quick Sync Video with AVC, MVC (S3D) and MPEG-2 Full HW Encode1, Intel® InTru™ 3D, Intel® Clear Video HD Technology, Intel® Insider™, Intel® HD Graphics 4400/4600 • Pixel Shader 5.0, DirectX 11.1 • Mémoire partagée max. 1792Mo • Output de VGA Dual: supporter DVI-D et D-Sub ports par les contrôleurs de display indépendents • Prend en charge le mode DVI-D avec une résolution maximale de 1920x1200 @ 60Hz • Prend en charge le mode D-Sub avec une résolution maximale de 1920x1200 @ 60Hz • Prend en charge la fonction HDCP via port DVI-D • Prend en charge la lecture Blu-ray (BD) Full HD 1080p via port DVI-D

Audio

- Audio 5.1 CH HD (codec audio Realtek ALC662)
- Supporte la protection contre les surtensions (protection complète contre surges ASRock)

Réseau

- PCIE x1 Gigabit LAN 10/100/1000 Mo/s
- Realtek RTL8111GR
- Supporte le réveil-sur-WAN
- Prend en charge la fonction Wake-On-LAN
- Supporte la protection contre la foudre/ESD (protection complète contre surges ASRock)
- Prise en charge de la détection de câble LAN
- Prend en charge la fonction d'économie d'énergie Ethernet 802.3az
- Prend en charge PXE

Connectique du panneau arrière

- 1 x port souris/clavier PS/2
- 1 x port D-Sub
- 1 x port DVI-D
- 4 x ports USB 2.0 (Supporte la protection ESD (protection complète contre surges ASRock))
- 2 x ports USB 3.0 (Supporte la protection ESD (protection complète contre surges ASRock))
- 1 x port RJ-45 LAN avec LED (LED ACT/LIEN et LED VITESSE)
- Connecteurs jack audio HD : entrée ligne / haut-parleur avant / microphone

Stockage

- 4 x connecteurs SATA3 6,0 Go/s, compatibles avec les fonctions NCQ, AHCI et « Hot Plug »

Connectique

- 1 x embase pour port d'impression
- 1 x embase pour port COM
- 1 x embase d'intrusion châssis
- 1 x embase TPM
- 1 x connecteur pour ventilateur de processeur (4 broches)
- 1 x connecteur pour ventilateur de châssis (4 broches)
- 1 x connecteur pour ventilateur d'alimentation (3 broches)
- 1 x connecteur d'alimentation ATX 24 broches
- 1 x connecteur d'alimentation 12V 4 broches
- 1 x connecteur audio panneau frontal

- 2 x embases USB 2.0 (pour 4 ports USB 2.0) (Supporte la protection ESD (protection complète contre surges ASRock))
- 1 x embase USB 3.0 (pour 2 ports USB 3.0) (Supporte la protection ESD (protection complète contre surges ASRock))

BIOS

- BIOS UEFI AMI 32Mo avec prise en charge d'interface graphique multilingue
- Compatible ACPI 1.1 Wake Up Events
- Prend en charge SMBIOS 2.3.1
- Réglage de la tension CPU, DRAM, PCH 1,05V, PCH 1,5V

Surveillance du matériel

- Détection de la température du processeur/châssis
- Tachéomètre processeur/châssis/ventilateur d'alimentation
- Fonction ventilateur silencieux processeur/châssis Quiet Fan (permet au ventilateur du châssis d'adapter sa vitesse de rotation automatiquement en fonction de la température du processeur)
- Contrôle simultané des vitesse du ventilateur processeur/châssis
- Détection CHASSIS OUVERT
- Surveillance de la tension d'alimentation : +12V, +5V, +3,3V, CPU Vcore

Système d'exploitation

- Microsoft® Windows® 8.1 32-bit / 8.1 64-bit / 8 32-bit / 8 64-bit / 7 32-bit / 7 64-bit

Certifications

- FCC, CE, WHQL
- ErP/EuP Ready (alimentation ErP/EuP ready require)

Specifiche

Piattaforma

- Fattore di forma Micro ATX
- Design di condensatore solido
- Circuito in vetro ad alta densità

CPU

- Supporta processori Intel® Core™ i7/i5/i3/Xeon®/Pentium®/Celeron® di nuova quarta e quarta generazione (Socket 1150)
- Supporta la tecnologia Intel® Turbo Boost 2.0

Chipset

- Intel® B85

Memoria

- Tecnologia con memoria DDR3 a doppio canale
- 2 x slot DIMM DDR3
- Supporta la memoria DDR3 1600/1333/1066 non ECC, senza buffer
- Capacità max. della memoria di sistema: 16GB
- Supporta Intel® Extreme Memory Profile (XMP)1.3/1.2

Slot di espansione

- 1 x PCI Express 3.0 x16 slot (PCI-E1: modalità x16)
- 1 x PCI Express 2.0 x1 slot

Grafica

- La videografica integrata della scheda video HD Intel® e le uscite VGA possono essere supportate soltanto con processori con GPU integrata.
- Supporta la videografica integrata della scheda video HD Intel®: Intel® Quick Sync Video con AVC, MVC (S3D) e MPEG-2 Full HW Encode1, Intel® InTru™ 3D, tecnologia Intel® Clear Video HD, Intel® Insider™, Intel® HD Graphics 4400/4600
- Pixel Shader 5.0, DirectX 11.1
- Memoria condivisa max. 1792 MB
- Uscita VGA Doppia: supporto porte DVI-D e D-Sub tramite verifi catore display indipendente
- Supporta DVI-D con una risoluzione max. fino a 1920 x 1200 a 60 Hz
- Supporta D-Sub con una risoluzione max. fino a 1920 x 1200 a 60 Hz
- Supporta la funzione HDCP con porta DVI-D
- Supporta Blu-ray (BD) Full HD 1080p, riproduzione con porta DVI-D

- Audio**
- Audio HD a 5.1 canali (codec audio Realtek ALC662)
 - Supporto protezione da sovratensione (protezione completa ASRock dai picchi di corrente)

- LAN**
- PCIE x 1 LAN Gigabit 10/100/1000 Mb/s
 - Realtek RTL8111GR
 - Supporto WOW (Wake-On-WAN)
 - Supporta Wake-On-LAN
 - Supporto la protezione da fulmini/scariche elettrostatiche (ESD) (protezione completa ASRock dai picchi di corrente)
 - Supporta il rilevamento cavo LAN
 - Supporta Energy Efficient Ethernet 802.3az
 - Supporta PXE

- I/O pannello posteriore**
- 1 x porta mouse/tastiera PS/2
 - 1 x porta D-Sub
 - 1 x porta DVI-D
 - 4 x porte USB 2.0 (Supporto della protezione da scariche elettrostatiche (ESD) (protezione completa ASRock dai picchi di corrente))
 - 2 x porte USB 3.0 (Supporto della protezione da scariche elettrostatiche (ESD) (protezione completa ASRock dai picchi di corrente))
 - 1 x porta LAN RJ-45 con LED (ACT/LINK LED e SPEED LED)
 - Jack audio HD: ingresso linea/altoparlante anteriore/microfono

- Archiviazione**
- 4 x connettori SATA3 6,0 Gb/s, supporta le funzioni NCQ, AHCI e "Hot Plug"

- Connettore**
- 1 x header porta stampa
 - 1 x header porta COM
 - 1 x header di intrusione nello chassis
 - 1 x header TPM
 - 1 x connettore ventola CPU (4 pin)
 - 1 x connettore ventola chassis (4 pin)
 - 1 x connettore ventola alimentazione (3 pin)
 - 1 x connettore alimentazione ATX a 24 pin
 - 1 x connettore alimentazione da 12 V a 4 pin
 - 1 x connettore audio pannello anteriore

- 2 x header USB 2.0 (supporto 4 porte USB 2.0) (Supporto della protezione da scariche elettrostatiche (ESD) (protezione completa ASRock dai picchi di corrente))
- 1 x header USB 3.0 (supporta 2 porte USB 3.0) (Supporto della protezione da scariche elettrostatiche (ESD) (protezione completa ASRock dai picchi di corrente))

Caratteristiche del BIOS

- BIOS legale 32 Mb AMI UEFI con supporto GUI multilingue
- Eventi di wake up conformi ad ACPI 1.1
- Supporto SMBIOS 2.3.1
- Multiregolazione tensione CPU, DRAM, PCH 1,05 V, PCH 1,5 V

Hardware Monitor

- Sensore temperatura CPU/chassis
- Tachimetro CPU/chassis/ventola alimentazione
- Ventola silenziosa CPU/chassis (consente l'autoregolazione della velocità della ventola dello chassis mediante la temperatura della CPU)
- Controllo multivelocità della ventola di CPU/chassis
- Rilevamento CASE OPEN
- Monitoraggio tensione: +12 V, +5 V, +3,3 V, CPU Vcore

SO

- Microsoft® Windows® 8.1 32 bit / 8.1 64 bit / 8 32 bit / 8 64 bit / 7 32 bit / 7 64 bit

Certificazioni

- FCC, CE, WHQL
- ErP/EuP Ready (è necessaria alimentazione ErP/EuP ready)

Especificaciones

Plataforma	<ul style="list-style-type: none"> • Factor de forma Micro ATX • Diseño de los Condensadores: All Solid • PCB de fibra de vidrio de alta densidad
CPU	<ul style="list-style-type: none"> • Admite procesadores Intel® Core™ i7/i5/i3/Xeon®/Pentium®/Celeron® (zócalo 1150) de la nueva 4ª y 4ª generación • Compatible con la tecnología de Intel® Turbo Boost 2.0
Conjunto de chips	<ul style="list-style-type: none"> • Intel® B85
Memoria	<ul style="list-style-type: none"> • Tecnología de memoria de Doble Canal DDR3 • 2 ranuras DDR3 DIMM • Compatible con memoria no-ECC, sin búfer DDR3 1600/1333/1066 • Capacidad máxima de la memoria del sistema: 16GB • Compatible con Extreme Memory Profile (XMP)1.3/1.2 de Intel®
Ranura de expansión	<ul style="list-style-type: none"> • 1 ranura PCI Express 3.0 x16 (PCIE1: modo x16) • 1 ranura PCI Express 2.0 x1
Gráficos	<ul style="list-style-type: none"> • La Tecnología visual integrada de gráficos HD de Intel® y las salidas de VGA son compatibles únicamente con procesadores con GPU integrado. • Compatible con la Tecnología visual integrada de gráficos HD de Intel®: Intel® Quick Sync Video con AVC, MVC (S3D) y MPEG-2 Full HW Encode1, Intel® InTru™ 3D, Intel® Clear Video HD Technology, Intel® Insider™, Intel® HD Graphics 4400/4600 • Pixel Shader 5.0, DirectX 11.1 • Memoria compartida máxima: 1792MB • Salida de VGA dual: apoya los puertos de DVI-D y de D-Sub por los reguladores independientes de la exhibición • Compatible con DVI-D con máxima resolución hasta 1920x1200 @ 60Hz • Compatible con D-Sub con máxima resolución hasta 1920x1200 @ 60Hz • Compatible con función HDCP con puerto DVI-D • Compatible con reproducción Blu-ray (BD) Full HD de 1080p con puerto DVI-D

Audio

- 5.1 Audio CH HD (Realtek ALC662 Audio Codec)
- Admite protección contra subidas de tensión (Protección Integral contra Picos de ASRock)

LAN

- 1 LAN Gigabit PCIE 10/100/1000 Mb/s
- Realtek RTL8111GR
- Admite Reactivación en WAN
- Compatible con Wake-On-LAN
- Admite protección contra rayos/ESD (Protección Integral contra Picos de ASRock)
- Admite detección de conexión de cable LAN
- Compatible con Ethernet de consumo eficiente de energía 802.3az
- Compatible con PXE

Panel trasero I/O

- 1 puerto de ratón/teclado PS/2
- 1 puerto D-Sub
- 1 puerto DVI-D
- 4 puertos USB 2.0 (Admite protección ESD (Protección Integral contra Picos de ASRock))
- 2 puertos USB 3.0 (Admite protección ESD (Protección Integral contra Picos de ASRock))
- 1 puerto LAN RJ-45 con LED (ACT/LINK LED y SPEED LED)
- Conector de audio HD: Entrada de línea / Altavoz frontal / Micrófono

Almacenamiento

- 4 conectores SATA3 de 6,0 Gb/s, compatibles con las funciones NCQ, AHCI y “Hot Plug”

Conectores

- 1 cabezal de puerto de impresión
- 1 cabezal de puerto COM
- 1 cabezal de intrusión de chasis
- 1 cabezal TPM
- 1 conector de ventilador de la CPU (de 4 pines)
- 1 conector de ventilador del chasis (de 4 pines)
- 1 conector de ventilador de alimentación (de 3 pines)
- 1 conector de alimentación ATX de 24 pines
- 1 conector de alimentación de 12V de 4 pines
- 1 conector de audio del panel frontal
- 2 cabezales USB 2.0 (compatibles con 4 puertos USB 2.0) (Admite protección ESD (Protección Integral contra Picos de ASRock))

- 1 cabezal USB 3.0 (compatible con 2 puertos USB 3.0)
(Admite protección ESD (Protección Integral contra Picos de ASRock))

Características del BIOS

- BIOS legal UEFI AMI de 32Mb compatible con interfaz gráfica de usuario multilingüe
- Eventos de reactivación conformes con ACPI 1.1
- Compatible con SMBIOS 2.3.1
- Multiajuste de voltaje de CPU, DRAM, PCH 1,05V, PCH 1,5V

Monitor del hardware

- Método de sensor de temperatura de la CPU/Chasis
- Tacómetro del ventilador de alimentación/CPU/Chasis
- Ventilador silencioso de la CPU/Chasis (permite ajustar automáticamente la velocidad del ventilador del chasis mediante la temperatura de la CPU)
- Control multivelocidad del ventilador de la CPU/Chasis
- Detección de CUBIERTA ABIERTA
- Control del voltaje: +12V, +5V, +3,3V, CPU Vcore

SO

- Microsoft® Windows® 8.1 32 bits / 8.1 64 bits / 8 32 bits / 8 64 bits / 7 32 bits / 7 64 bits

Certificaciones

- FCC, CE, WHQL
- Compatible con ErP/EuP (requiere toma de alimentación compatible con ErP/EuP)

Спецификация

Платформа	<ul style="list-style-type: none">• Форм-фактор Micro ATX• Использование только твердотельных конденсаторов• High Density Glass Fabric PCB
ЦП	<ul style="list-style-type: none">• Поддержка процессоров нового 4-го и 4-го поколения Intel® Core™ i7/i5/i3/Xeon®/Pentium®/Celeron® (Разъем 1150)• Поддержка технологии Intel® Turbo Boost 2.0
Чипсет	<ul style="list-style-type: none">• Intel® B85
Память	<ul style="list-style-type: none">• Двухканальная память DDR3• 2 x гнездо DDR3 DIMM• Поддержка модулей памяти DDR3 1600/1333/1066 Non-ECC Unbuffered• Максимальный объем системной памяти: 16 Гб• Поддержка Intel® Extreme Memory Profile (XMP)1.3/1.2
Гнезда расширения	<ul style="list-style-type: none">• 1 x PCI Express 3.0 x16 гнезд (PCIЕ1: режим x16)• 1 x PCI Express 2.0 x1 гнезд
Графическая система	<ul style="list-style-type: none">• Поддержка выходных сигналов Intel® HD Graphics Built-in Visuals и VGA возможна только при использовании процессоров со встроенными графическими процессорами.• Поддержка Intel® HD Graphics Built-in Visuals: Intel® Quick Sync Video с AVC, MVC (S3D) и MPEG-2 Full HW Encode1, Intel® InTru™ 3D, Intel® Clear Video HD Technology, Intel® Insider™, Intel® HD Graphics 4400/4600• Pixel Shader 5.0, DirectX 11.1• Максимальный объем совместно используемой памяти: 1792 Мб• Двойственное VGA выходное устройство: поддерживает DVI-D и D-Sub порты через независимый контроллер дисплея• Поддержка DVI-D с максимальным разрешением до 1920x1200 при 60 Гц• Поддержка D-Sub с максимальным разрешением до 1920x1200 при 60 Гц• Поддержка функции HDCP через порты DVI-I• Поддержка воспроизведения Full HD 1080p Blu-ray (BD) через порты DVI-D

Аудио

- 5.1-канальный звук высокой четкости HD Audio (аудиокодек Realtek ALC662)
- Поддержка защиты от перенапряжений (Полная защита (ASRock от выбросов напряжения))

ЛВС

- PCIE x1 Gigabit LAN 10/100/1000 Мб/с
- Realtek RTL8111GR
- Поддержка Wake-On-WAN
- Поддержка Wake-On-LAN
- Поддержка защиты от молнии/электростатического электричества (Полная защита (ASRock от выбросов напряжения))
- Поддержка определения кабеля ЛВС
- Поддержка Energy Efficient Ethernet 802.3az
- Поддержка PXE

Порты ввода-вывода на задней панели

- 1 x PS/2 для мыши/клавиатуры
- 1 x D-Sub
- 1 x DVI-D
- 4 x USB 2.0 (Поддержка защиты от электростатического электричества (Полная защита (ASRock от выбросов напряжения))
- 2 x USB 3.0 (Поддержка защиты от электростатического электричества (Полная защита (ASRock от выбросов напряжения))
- 1 x RJ-45 для ЛВС с СИД (СИД ACT/LINK и МИД SPEED)
- Разъемы HD Audio: линейный вход / передние динамики / микрофон

Запоминающие устройства

- 4 x разъем SATA3 6,0 Гб/с, поддержка функций NCQ, AHCI и «горячей» замены

Разъемы

- 1 x колодка порта принтера
- 1 x колодка COM-порта
- 1 x колодка для датчика вскрытия корпуса
- 1 x колодка TPM
- 1 x разъем для вентилятора ЦП (4-контактный)
- 1 x разъем для вентилятора корпуса (4-контактный)
- 1 x разъем для вентилятора блока питания (3-контактный)
- 1 x разъем питания ATX (24-контактный)
- 1 x 4-контактный разъем питания 12 В

- 1 х аудиоразъем на передней панели
- 2 х колодки USB 2.0 (поддержка 4 портов USB 2.0) (Поддержка защиты от электростатического электричества (Полная защита (ASRock от выбросов напряжения))
- 1 х колодка USB 3.0 (поддержка 2 портов USB 3.0) (Поддержка защиты от электростатического электричества (Полная защита (ASRock от выбросов напряжения))

Особенности BIOS

- 32 Мб AMI UEFI Legal BIOS с поддержкой многоязычного ГИП
- Совместимость с управлением энергопотреблением по ACPI 1.1
- Поддержка SMBIOS 2.3.1
- Регулировка напряжений ЦП, DRAM, PCH 1,05 В, PCH 1,5 В

Контроль оборудования

- Датчик температуры ЦП/корпуса питания
- Тахометр вентиляторов ЦП/корпуса/блока питания
- Малошумящий вентилятор ЦП/корпуса (с автоматической регулировкой оборотов по температуре ЦП)
- Управление оборотами вентилятора ЦП/корпуса
- Технология определения вскрытия корпуса
- Контроль напряжения: +12 В, +5 В, +3,3 В, ЦП Vcore

ОС

- Microsoft® Windows® 8.1 32-bit / 8.1 64-bit / 8 32-bit / 8 64-bit / 7 32-bit / 7 64-bit

Сертификация

- FCC, CE, WHQL
- Совместимость с ErP/EuP (необходим блок питания, соответствующий стандарту ErP/EuP)

Especificações

Plataforma	<ul style="list-style-type: none"> • Formato Micro ATX • Design de condensador sólido • Tecido de Vidro de Alta densidade PCB
CPU	<ul style="list-style-type: none"> • Suporta Processadores de 4ª Geração Nova e 4ª Geração Intel® Core™ i7/i5/i3/Xeon®/Pentium®/Celeron® (Soquete 1150) • Suporta a tecnologia Intel® Turbo Boost 2.0
Chipset	<ul style="list-style-type: none"> • Intel® B85
Memória	<ul style="list-style-type: none"> • Tecnologia de memória DDR3 de dois canais • 2 x ranhuras DIMM DDR3 • Suporta memória DDR3 1600/1333/1066, não ECC, sem memória intermédia • Capacidade máxima da memória do sistema: 16GB • Suporta Extreme Memory Profile (XMP)1.3/1.2 da Intel®
Ranhuras de expansão	<ul style="list-style-type: none"> • 1 x ranhura PCI Express 3.0 x16 (PCI-E1: modo x16) • 1 x ranhura PCI Express 2.0 x1
Gráficos	<ul style="list-style-type: none"> • Os gráficos incorporados Intel® HD e as saídas VGA apenas podem ser suportados com processadores com GPU integrada. • Suporta gráficos incorporados Intel® HD: Intel® Quick Sync Video com AVC, MVC (S3D) e MPEG-2 Full HW Encode1, Intel® InTru™ 3D, Tecnologia Intel® Clear Video HD, Intel® Insider™, Gráficos Intel® HD 4400/4600 • Pixel Shader 5.0, DirectX 11.1 • Memória partilhada máxima de 1792MB • Porta de saída VGA dupla: suporta portas DVI-D e D-Sub através de controladores de visualização independentes • Suporta DVI-D com resolução máxima de até 1920x1200 @ 60Hz • Suporta D-Sub com resolução máxima de até 1920x1200 @ 60Hz • Suporta a função HDCP com porta DVI-D • Suporta reprodução Blu-ray (BD) Full HD a 1080p com porta DVI-D

Áudio

- Áudio HD de 5.1 canais (Codec de áudio Realtek ALC662)
- Suporta Proteção Contra Surto (Proteção Total contra Picos ASRock)

LAN

- LAN Gigabit 10/100/1000 Mb/s PCIE x1
- Realtek RTL8111GR
- Suporta Wake-On-WAN
- Suporta Wake-On-LAN
- Suporta Proteção contra Relâmpago/ESD (Proteção Total contra Picos ASRock)
- Suporta Detecção de cabo LAN
- Suporta IEEE 802.3az
- Suporta PXE

E/S do painel traseiro

- 1 x Porta PS/2 para mouse/teclado
- 1 x Porta D-Sub
- 1 x Porta DVI-D
- 4 x portas USB 2.0 (Suporta Proteção ESD (Proteção Total contra Picos ASRock))
- 2 x portas USB 3.0 (Suporta Proteção ESD (Proteção Total contra Picos ASRock))
- 1 x Porta LAN RJ-45 com LED (LED ACT/LIGAÇÃO e LED DE VELOCIDADE)
- Ficha de áudio HD: Entrada de linha / Altifalante frontal / Microfone

Armazenamento

- 4 x conectores SATA3 a 6,0 Gb/s, com suporte para NCQ, AHCI e funções “Hot Plug”

Conector

- 1 x Terminal de porta de impressão
- 1 x Terminal de porta COM
- 1 x Terminal de intrusão no chassis
- 1 x Terminal TPM
- 1 x Conector da ventoinha da CPU (4 pinos)
- 1 x Conector da ventoinha do chassis (4 pinos)
- 1 x Conector da ventoinha de alimentação (3 pinos)
- 1 x conector de alimentação de 24 pinos ATX
- 1 x conector de alimentação de 12V de 4 pinos
- 1 x conector de áudio do painel frontal
- 2 x terminais USB 2.0 (suporte para 4 portas USB 2.0) (Suporta Proteção ESD (Proteção Total contra Picos ASRock))

- 1 x terminal USB 3.0 (suporte para 2 portas USB 3.0) (Suporta Proteção ESD (Proteção Total contra Picos ASRock))

Funcionalidades da BIOS

- BIOS UEFI oficial da AMI com 32Mb com suporte de interface multilíngue
- Eventos de reactivação compatíveis com ACPI 1.1
- Suporta SMBIOS 2.3.1
- Multi-ajuste de tensão de CPU, DRAM, PCH 1,05V, PCH 1,5V

Monitor de Hardware

- Sensor de temperatura da CPU/Gabinete
- Taquímetro de ventoinha de CPU/Chassis/Alimentação
- Ventoinha de CPU/Chassis silenciosa (Permite o ajuste automático da velocidade da ventoinha do chassis através da temperatura da CPU)
- Controlo de velocidade da ventoinha de CPU/Chassis
- Detecção de ABERTURA da CAIXA
- Monitorização da tensão: +12V, +5V, +3,3V, CPU Vcore

Sistema Operativo

- Microsoft® Windows® 8.1 de 32 bits / 8.1 de 64 bits / 8 de 32 bits / 8 de 64 bits / 7 de 32 bits / 7 de 64 bits

Certificações

- FCC, CE, WHQL
- Preparada para ErP/EuP (é necessária uma fonte de alimentação preparada para ErP/EuP)

Özellikler

Platform

- Micro ATX Form Faktörü
- Tam Katı Bağlayıcı tasarımı
- Yüksek Yoğunluklu Cam Elyaf PCB

CPU

- Yeni 4. ve 4. Nesil Intel® Core™ i7/i5/i3/Xeon®/Pentium®/Celeron® İşlemcilerini destekler (Soket 1150)
- Intel® Turbo Boost 2.0 Teknolojisini destekler

Yonga kümesi

- Intel® B85

Bellek

- Çift Kanallı DDR3 Bellek Teknolojisi
- 2 x DDR3 DIMM yuvaları
- DDR3 1600/1333/1066 ECC olmayan, ara belleğe alınmamış belleği destekler
- Maksimum sistem belleği kapasitesi: 16GB
- Intel® Üstün Bellek Profili (XMP)1.3/1.2 özelliğini destekler

Genişletme

- 1 x PCI Express 3.0 x16 yuva (PCIe1: x16 modu)

Yuvası

- 1 x PCI Express 2.0 x1

Grafikler

- Intel® HD Graphics Dahili Görselleri ile VGA çıktıları, yalnızca GPU entegre edilmiş işlemciler ile desteklenir.
- Intel® HD Graphics Dahili Görsellerini destekler : AVC, MVC (S3D) ve MPEG-2 Full HW Encode1, Intel® InTru™ 3D, Intel® Net Video HD Teknolojisi, Intel® Insider™, Intel® HD Graphics 4400/4600 ile Intel® Quick Sync Video
- Pixel Shader 5.0, DirectX 11.1
- Maksimum paylaşılan bellek 1792MB
- Çift VGA Çıkış: desteği DVI-D ve bağımsız görüntü denetleyiciler tarafından D-Sub bağlantı noktaları
- 1920x1200 @ 60Hz'ye kadar DVI-D işlevini destekler
- 1920x1200 @ 60Hz'ye kadar çözünürlükle D-Sub işlevini destekler
- DVI-D bağlantı noktaları ile HDCP işlevini destekler
- DVI-D bağlantı noktalarıyla, Full HD 1080p Blu-ray (BD) kayıttan yürütme özelliklerini destekler

Ses

- 5.1 CH HD Ses (Realtek ALC662 Ses Codec Bileşeni)
- Dalgalanma Korumasını destekler (ASRock Tam Ani Yükseliş Koruması)

LAN

- PCIE x1 Gigabit LAN 10/100/1000 Mb/s
- Realtek RTL8111GR
- WAN üzerinden açma destekler
- LAN Açılışını Destekler
- Yıldırım/ESD Korumasını destekler (ASRock Tam Ani Yükseliş Koruması)
- LAN Kablo Algılama'yı destekler
- Enerji Verimliliğine Sahip Ethernet 802.3az işlevini destekler
- PXE özelliğini destekler

Arka Panel I/O

- 1 x PS/2 Fare/Klavye Bağlantı Noktası
- 1 x D-Sub Bağlantı Noktası
- 1 x DV-D Bağlantı Noktası
- 4 x USB 2.0 Bağlantı noktası (ESD Korumasını destekler (ASRock Tam Ani Yükseliş Koruması))
- 2 x USB 3.0 Bağlantı noktası (ESD Korumasını destekler (ASRock Tam Ani Yükseliş Koruması))
- LED'e sahip 1 x RJ-45 LAN Bağlantı Noktası (ACT/LINK LED ve SPEED LED)
- HD Ses Jaki: Hat Girişi / Ön Hoparlör / Mikrofon

Depolama

- 4 x SATA3 6,0 Gb/s bağlayıcıları NCQ, AHCI ve "Hot Plug" işlevlerini destekler

Bağlayıcı

- 1 x Yazdırma Bağlantı noktası bağlantısı
- 1 x COM Bağlantı noktası bağlantısı
- 1 x Kasa Yetkisiz Erişim bağlantısı
- 1 x TPM bağlantısı
- 1 x CPU Fan bağlayıcısı (4-pin)
- 1 x Kasa Fanı bağlayıcısı (4-pin)
- 1 x Güç Fanı bağlayıcısı (3-pin)
- 1 x 24 pin ATX güç bağlayıcısı
- 1 x 4 pin 12V güç bağlayıcısı
- 1 x Ön panel ses bağlayıcısı
- 2 x USB 2.0 bağlantısı (4 USB 2.0 bağlantı noktasını destekler) (ESD Korumasını destekler (ASRock Tam Ani Yükseliş Koruması))

- 1 x USB 3.0 bağlantısı (2 USB 3.0 bağlantı noktasını destekler) (ESD Korumasını destekler (ASRock Tam Ani Yükseliş Koruması))

BIOS Özelliği

- Çok dilli GUI Desteği ile 32Mb AMI UEFI Legal BIOS
- ACPI 1.1 Uyumluluğu Uyandırma Olayları
- SMBIOS 2.3.1 Desteği
- CPU, DRAM, PCH 1,05V, PCH 1,5V Voltaj Çoklu Ayarı

Donanım Monitörü

- CPU/Kasa Sıcaklığı Tespiti
- CPU/Kasa/Güç Fanı Devirölçer
- CPU/Kasa Sessiz Fan (Kasa Fan Hızının CPU Sıcaklığına Göre Otomatik olarak Ayarlanmasını Sağlar)
- CPU/Kasa Fanı Çoklu Hız Kontrolü
- KASA AÇIK algılaması
- Voltaj Denetleme: +12V, +5V, +3,3V, CPU Vcore

OS

- Microsoft® Windows® 8.1 32-bit / 8.1 64-bit / 8 32-bit / 8 64-bit / 7 32-bit / 7 64-bit

Belgeler

- FCC, CE, WHQL
- ErP/EuP için hazır (ErP/EuP için hazır güç beslemesi gereklidir)

규격

플랫폼

- Micro ATX 폼 팩터
- 모든 솔리드 콘덴서 구조
- 고밀도 유리 직물 PCB

CPU

- 신형 4 세대 및 4 세대 Intel® Core™ i7/i5/i3/Xeon®/Pentium®/Celeron® 프로세서 (소켓 1150) 지원
- Intel® Turbo Boost 2.0 기술 지원

칩세트

- Intel® B85

메모리

- 듀얼 채널 DDR3 메모리 기술
- DDR3 DIMM 슬롯 2 개
- DDR3 1600/1333/1066 비-ECC, 비버퍼링 메모리 지원
- 시스템 메모리 최대 용량 : 16GB
- Intel® Extreme Memory Profile (XMP)1.3/1.2 지원

확장 슬롯

- PCI Express 3.0 x16 슬롯 1 개 (PCIe1: x16 모드)
- PCI Express 2.0 x1 슬롯 1 개

그래픽

- Intel® HD 그래픽스 빌트-인 비주얼과 VGA 출력은 GPU 통합 프로세서로만 지원할 수 있습니다.
- Intel® HD 그래픽스 빌트-인 비주얼 지원 : AVC, MVC (S3D) 및 MPEG-2 풀 HW Encode1 지원 Intel® Quick Sync Video, Intel® InTru™ 3D, Intel® 클리어 비디오 HD 기술, Intel® Insider™, Intel® HD 그래픽스 4400/4600
- Pixel Shader 5.0, DirectX 11.1
- 최대 공유 메모리 1792MB
- 더블 VGA 수출 : DVI-D 와 D-Sub 포트 독립 디스플레이 컨트롤러를 지원
- DVI-D 지원 (최대 해상도 1920x1200 @ 60Hz)
- D-Sub 지원 (최대 해상도 1920x1200 @ 60Hz)
- DVI-D 포트를 이용한 HDCP 기능 지원
- DVI-D 포트를 이용한 Full HD 1080p Blu-ray (BD) 재생 지원

오디오

- 5.1 CH HD 오디오 지원 (Realtek ALC662 오디오 코덱)
- 서지 보호 (ASRock 풀 스파이크 보호) 지원

LAN

- PCIE 1 개, Gigabit LAN 10/100/1000 Mb/s
- Realtek RTL8111GR
- Wake-On-WAN 지원
- Wake-On-LAN 지원
- 조명 /ESD 보호 (ASRock 풀 스파이크 보호) 지원
- LAN 케이블 감지 지원
- 절전형 이더넷 802.3az 지원
- PXE 지원

후면 패널 I/O

- PS/2 마우스 / 키보드 포트 1 개
- D-Sub 포트 1 개
- DVI-D 포트 1 개
- USB 2 포트 4 개 (ESD 보호 (ASRock 풀 스파이크 보호) 지원)
- USB 3 포트 2 개 (ESD 보호 (ASRock 풀 스파이크 보호) 지원)
- LED 장착 RJ-45 LAN 포트 1 개 (ACT/LINK LED 및 SPEED LED)
- HD 오디오 잭: 라인 입력 / 전면 스피커 / 마이크

저장 장치

- SATA3 6.0 Gb/s 커넥터 4 개, NCQ, AHCI 및 핫 플러그 기능 지원

커넥터

- 인쇄 포트 헤더 1 개
- COM 포트 헤더 1 개
- 새시 침입 헤더 1 개
- TPM 헤더 1 개
- CPU 팬 커넥터 1 개 (4 핀)
- 새시 팬 커넥터 1 개 (4 핀)
- 전원 팬 커넥터 1 개 (3 핀)
- 24 핀 ATX 전원 커넥터 1 개
- 4 핀 12V 전원 커넥터 1 개
- 전면 패널 오디오 커넥터 1 개
- USB 2.0 헤더 2 개 (USB 2.0 포트 4 개 지원) (ESD 보호 (ASRock 풀 스파이크 보호) 지원)

- USB 3.0 헤더 1 개 (USB 3.0 포트 2 개 지원) (ESD 보호 (ASRock 폴 스파이크 보호) 지원)

BIOS 기능

- 다국어 GUI 지원을 제공하는 32Mb AMI UEFI 적합형 BIOS
- ACPI 1.1 준수 웨이크 업 이벤트
- SMBIOS 2.3.1 지원
- CPU, DRAM, PCH 1.05V, PCH 1.5V 전압 다중 조정

하드웨어 모니터

- CPU/ 새시 온도 감지
- CPU/ 새시 / 전원 팬 타코미터
- CPU/ 새시 저소음 팬 (CPU 온도에 의한 새시 팬 속도 자동 조정)
- CPU/ 새시 팬 다중 속도 조절
- 케이스 열림 감지
- 전압 모니터링 : +12V, +5V, +3.3V, CPU Vcore

OS

- Microsoft® Windows® 8.1 32 비트 / 8.1 64 비트 / 8 32 비트 / 8 64 비트 / 7 32 비트 / 7 64 비트

인증

- FCC, CE, WHQL
- ErP/EuP 사용 가능 (ErP/EuP 사용 가능 전원공급장치 필요)

仕様

- プラットフォーム**
- マイクロ ATX フォームファクター
 - オール固体コンデンサー設計
 - 高密度ガラス繊維 PCB

- CPU**
- 新第 4 世代および第 4 世代 Intel® Core™ i7/i5/i3/Xeon®/Pentium®/Celeron® プロセッサに対応 (ソケット 1150)
 - Intel® ターボブースト 2.0 テクノロジーをサポート

- チップセット**
- Intel® B85

- メモリ**
- デュアルチャンネル DDR3 メモリテクノロジー
 - 2 x DDR3 DIMM スロット
 - DDR3 1600/1333/1066 ECC なし、アンバッファードメモリをサポート
 - システムメモリの最大容量: 16GB
 - Intel® エクストリームメモリプロファイル (XMP) 1.3/1.2 をサポート

- 拡張スロット**
- 1 x PCI Express 3.0 x16 スロット (PCIe1: x16 モード)
 - 1 x PCI Express 2.0 x1 スロット

- グラフィックス**
- Intel®HD グラフィックス内蔵ビジュアルおよびVGA出力は、GPUに統合されたプロセッサのみでサポートされます。
 - Intel®HD グラフィックス内蔵ビジュアルをサポート: AVC、MVC (S3D)、MPEG-2 フル HW エンコード 1 の Intel® Quick Sync Video、Intel® InTru™ 3D、Intel® クリアビデオ HD テクノロジー、Intel® インサイダー™、Intel® HD グラフィックス 4400/4600
 - ピクセルシェーダー 5.0、DirectX 11.1
 - 最大共有メモリ 1792MB
 - 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-D および D-Sub ポートサポート
 - DVI-D をサポート。最大解像度 1920x1200 @60Hz
 - D-Sub をサポート。最大解像度 1920x1200 @60Hz
 - DVI-D ポートで、HDCP 機能をサポート
 - DVI-D ポートで、フル HD 1080p ブルーレイ (BD) 再生をサポート

音声

- 5.1 CH HD オーディオ (Realtek ALC662 オーディオコーデック)
- サージ保護 (ASRock フルスパイク保護) をサポートします

LAN

- PCIE x1 ギガビット LAN 10/100/1000 Mb/ 秒
- Realtek RTL8111GR
- ウェイクオン WAN をサポートします
- ウェイクオンランをサポート
- 雷 /ESD 保護 ((ASRock フルスパイク保護) をサポートします)
- LAN ケーブル検出をサポート
- エネルギー効率のよいイーサネット 802.3az をサポート
- PXE をサポート

リアパネル I/O

- 1 x PS/2 マウス / キーボードポート
- 1 x D-Sub ポート
- 1 x DVI-D ポート
- 4 x USB 2.0 ポート (静電気放電 (ESD) 保護に対応 (ASRock 完全スパイク保護))
- 2 x USB 3.0 ポート (静電気放電 (ESD) 保護に対応 (ASRock 完全スパイク保護))
- LED 付き 1 x RJ-45 LAN ポート (ACT/LINK LED と SPEED LED)
- HD オーディオジャック: ラインイン / フロントスピーカー / マイク

ストレージ

- 4 x SATA3 6.0 Gb/ 秒コネクタ、NCQ、AHCI、「ホットプラグ」機能をサポート

コネクタ

- 1 x プリントポートヘッダー
- 1 x COM ポートヘッダー
- 1 x シャーシインテリジェントヘッダー
- 1 x TPM ヘッダー
- 1 x CPU ファインコネクタ (4 ピン)
- 1 x シャーシファンコネクタ (4 ピン)
- 1 x 電源ファンコネクタ (3 ピン)
- 1 x 24 ピン ATX 電源コネクタ
- 1 x 4 ピン 12V 電源コネクタ
- 1 x 前面パネルオーディオコネクタ
- 2 x USB 2.0 ヘッダー (4つの USB 2.0 ポートをサポート) (静電気放電 (ESD) 保護に対応 (ASRock 完全スパイク保護))

- 1 x USB 3.0 ヘッダー (2つの USB 3.0 ポートをサポート) (静電気放電 (ESD) 保護に対応 (ASRock 完全スパイク保護))

BIOS 機能

- 多言語 GUI サポート付きの 32Mb AMI UEFI Legal BIOS
- ACPI 1.1 準拠のウェイクアップイベント
- SMBIOS 2.3.1 をサポート
- CPU、DRAM、PCH 1.05V、PCH 1.5V 複数電圧設定

ハードウェアモニター

- CPU/ シャーシ温度センサー
- CPU/ シャーシ / 電源ファンタコメーター
- CPU/ シャーシ静音ファン (CPU 温度によるシャーシファン速度の自動調整可能)
- CPU/ シャーシファンマルチ速度制御
- ケース開閉検知
- 電圧監視: +12V、+5V、+3.3V、CPU Vcore

OS

- Microsoft® Windows® 8.1 32 ビット / 8.1 64 ビット / 8 32 ビット / 8 64 ビット / 7 32 ビット / 7 64 ビット

認証

- FCC、CE、WHQL
- ErP/EuP Ready (ErP/EuP ready 電源が必要です)

规格

平台

- Micro ATX 规格尺寸
- 全固态电容器设计
- 高密度防潮纤维电路板

CPU

- 支持新款第 4 代和第 4 代 Intel® Core™ i7/i5/i3/Xeon®/Pentium®/Celeron® 处理器 (Socket 1150)
- 支持 Intel® Turbo Boost 2.0 技术

芯片集

- Intel® B85

内存

- 双通道 DDR3 内存技术
- 2 x DDR3 DIMM 槽
- 支持 DDR3 1600/1333/1066 非 ECC，非缓冲内存
- 支持系统内存容量：16GB
- 支持 Intel® Extreme Memory Profile (XMP)1.3/1.2

扩充槽

- 1 x PCI Express 3.0 x16 槽 (PCIe1: x16 模式)
- 1 x PCI Express 2.0 x1 槽

图形

- 只有 GPU 集成的处理器才支持 Intel® HD Graphics 内置视效和 VGA 输出。
- 支持 Intel® HD Graphics 内置视效：Intel® 快速同步视频，采用 AVC、MVC (S3D) 和 MPEG-2 Full HW Encode1、Intel® InTru™ 3D、Intel® Clear Video HD 技术、Intel® Insider™、Intel® HD Graphics 4400/4600
- Pixel Shader 5.0、DirectX 11.1
- 最大共享内存 1792MB
- 双重显示输出选项：通过独立显示控制器提供 DVI-D 和 D-Sub 接口
- 支持 DVI-D，60Hz 时最大分辨率达 1920x1200
- 支持 D-Sub，60Hz 时最大分辨率达 1920x1200
- 通过 DVI-D 端口支持 HDCP 功能
- 通过 DVI-D 端口支持全高清 1080p Blu-ray (BD) 播放

音频

- 5.1 CH 高清音频 (Realtek ALC662 音频编解码器)
- 支持防突波 (华擎全防护)

LAN

- PCIE x1 Gigabit LAN 10/100/1000 Mb/s
- Realtek RTL8111GR
- 支持远端开机功能 (Wake-On-WAN)
- 支持 Wake-On-LAN (网上唤醒)
- 支持防雷击 / 防 ESD 静电 (华擎全防护)
- 支持网路线侦测功能
- 支持高能效以太网 802.3az
- 支持 PXE

后面板 I/O

- 1 x PS/2 鼠标 / 键盘端口
- 1 x D-Sub 端口
- 1 x DVI-D 端口
- 4 x USB 2.0 端口 (支持防 ESD 静电 (华擎全防护))
- 2 x USB 3.0 端口 (支持防 ESD 静电 (华擎全防护))
- 1 x RJ-45 LAN 端口, 带 LED (ACT/LINK LED 和 SPEED LED)
- 高清音频插孔: 线路输入 / 前扬声器 / 麦克风

存储

- 4 x SATA3 6.0 Gb/s 接口, 支持 NCQ、AHCI 和“热插拔”功能

接口

- 1 x 打印端口接脚
- 1 x COM 端口接脚
- 1 x 机箱侵入接脚
- 1 x TPM 接脚
- 1 x CPU 风扇接口 (4 针)
- 1 x 机箱风扇接口 (4 针)
- 1 x 电源风扇接口 (3 针)
- 1 x 24 针 ATX 电源接口
- 1 x 4 针 12V 电源接口
- 1 x 前面板音频接口
- 2 x USB 2.0 接脚 (支持 4 个 USB 2.0 端口) (支持防 ESD 静电 (华擎全防护))

- 1 x USB 3.0 接脚 (支持 2 个 USB 3.0 端口) (支持防 ESD 静电 (华擎全防护))

BIOS 功能特点

- 32Mb AMI UEFI Legal BIOS, 具有多语言 GUI 支持
- ACPI 1.1 兼容唤醒事件
- SMBIOS 2.3.1 支持
- CPU、DRAM、PCH 1.05V、PCH 1.5V 电压多次调整 (Voltage Multi-adjustment)

硬件监控

- CPU/ 机箱温度感测
- CPU/ 机箱 / 电源风扇转速计
- CPU/ 机箱静音风扇 (可以按照 CPU 温度自动调整机箱风扇速度)
- CPU/ 机箱风扇多种速度控制
- CASE OPEN (机箱打开) 检测
- 电压监控: +12V、+5V、+3.3V、CPU Vcore

操作系统

- Microsoft® Windows® 8.1 32-bit / 8.1 64-bit / 8 32-bit / 8 64-bit / 7 32-bit / 7 64-bit

认证

- FCC、CE、WHQL
- ErP/EuP 支持 (需要支持 ErP/EuP 的电源)

電子信息產品污染控制標示

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

有毒有害物質或元素的名稱及含量說明

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。

規格

平台	<ul style="list-style-type: none"> • Micro ATX 尺寸 • 全固態電容設計 • 高密度防潮纖維電路板
CPU	<ul style="list-style-type: none"> • 支援全新第 4 代及第 4 代 Intel® Core™ i7/i5/i3/Xeon®/Pentium®/Celeron® 處理器 (Socket 1150) • 支援 Intel® Turbo Boost 2.0 技術
晶片組	<ul style="list-style-type: none"> • Intel® B85
記憶體	<ul style="list-style-type: none"> • 雙通道 DDR3 記憶體技術 • 2 x DDR3 DIMM 插槽 • 支援 DDR3 1600/1333/1066 非 ECC、無緩衝記憶體 • 最大系統記憶體容量：16GB • 支援 Intel® Extreme Memory Profile (XMP)1.3/1.2
擴充插槽	<ul style="list-style-type: none"> • 1 x PCI Express 3.0 x16 插槽 (PCIe1：x16 模式) • 1 x PCI Express 2.0 x1 插槽
顯示卡	<ul style="list-style-type: none"> • 僅限整合 GPU 的處理器才可支援 Intel® HD Graphics Built-in Visuals 及 VGA 輸出。 • 支援 Intel® HD Graphics Built-in Visuals：轉換 AVC、MVC (S3D) 及 MPEG-2 Full HW Encode1 的 Intel® 高速影像同步轉檔技術、Intel® InTru™ 3D、Intel® Clear Video HD Technology、Intel® Insider™、Intel® HD Graphics 4400/4600 • Pixel Shader 5.0、DirectX 11.1 • 最大共用記憶體 1792MB • 雙顯示輸出：透過獨立顯示控制器提供 DVI-D 和 D-Sub 接口 • 支援最高達 1920x1200 @ 60Hz 解析度的 DVI-D • 支援最高達 1920x1200 @ 60Hz 解析度的 D-Sub • 支援含 DVI-D 連接埠的 HDCP 功能 • 支援透過 DVI-D 連接埠的 Full HD 1080p Blu-ray (BD) 播放

音訊

- 5.1 CH HD 音訊 (Realtek ALC662 音訊轉碼器) 功能
- 支援防突波 (ASRock 全防護)

LAN

- PCIE x1 Gigabit LAN 10/100/1000 Mb/s
- Realtek RTL8111GR
- 支援 Wake-On-WAN
- 支援網路喚醒
- 支援防雷擊 / 防 ESD 靜電 (ASRock 全防護)
- 支援網路線偵測功能
- 支援 Energy Efficient Ethernet 802.3az
- 支援 PXE

後面板 I/O

- 1 x PS/2 滑鼠 / 鍵盤連接埠
- 1 x D-Sub 連接埠
- 1 x DVI-D 連接埠
- 4 x USB 2.0 連接埠 (支援防 ESD 靜電 (ASRock 全防護))
- 2 x USB 3.0 連接埠 (支援防 ESD 靜電 (ASRock 全防護))
- 1 x RJ-45 LAN 連接埠, 含 LED (ACT/LINK LED 及 SPEED LED)
- HD 音訊插孔: 線路輸入 / 前置喇叭 / 麥克風

儲存裝置

- 4 x SATA3 6.0 Gb/s 接頭, 支援 NCQ、AHCI 及「熱插拔」功能

接頭

- 1 x 列印連接埠標頭
- 1 x COM 連接埠標頭
- 1 x 機殼防護標頭
- 1 x TPM 標頭
- 1 x CPU 風扇接頭 (4-pin)
- 1 x 機殼風扇接頭 (4-pin)
- 1 x 電源風扇接頭 (3-pin)
- 1 x 24 pin ATX 電源接頭
- 1 x 4 pin 12V 電源接頭
- 1 x 前面板音訊接頭
- 2 x USB 2.0 標頭 (支援 4 USB 2.0 連接埠) (支援防 ESD 靜電 (ASRock 全防護))
- 1 x USB 3.0 標頭 (支援 2 USB 3.0 連接埠) (支援防 ESD 靜電 (ASRock 全防護))

BIOS 功能

- 32Mb AMI UEFI Legal BIOS 含多語 GUI 支援
- ACPI 1.1 符合喚醒自動開機
- 支援 SMBIOS 2.3.1
- CPU、DRAM、PCH 1.05V、PCH 1.5V 電壓多重調整

硬體監視器

- CPU / 機殼溫度感應
- CPU / 機殼 / 電源風扇轉速計
- CPU / 機殼靜音風扇 (允許按照 CPU 溫度自動調整機殼風扇速度)
- CPU / 機殼風扇多重速度控制
- 機殼開啟偵測
- 電壓監控: +12V、+5V、+3.3V、CPU Vcore

作業系統

- Microsoft® Windows® 8.1 32 位元 / 8.1 64 位元 / 8 32 位元 / 8 64 位元 / 7 32 位元 / 7 64 位元

認證

- FCC、CE、WHQL
- ErP/EuP Ready (需具備 ErP/EuP ready 電源供應器)

Spesifikasi

- Platform**
- Bentuk dan Ukuran Micro ATX
 - Desain Kapasitor Solid
 - PCB Serat Kaca dengan Kerapatan Tinggi

- CPU**
- Mendukung Prosesor Intel® Core™ i7/i5/i3/Xeon®/Pentium®/Celeron® Generasi ke-4 Baru, dan ke-4 (Soket 1150)
 - Mendukung Teknologi Intel® Turbo Boost 2.0

- Chipset**
- Intel® B85

- Memori**
- Teknologi Memori DDR3 Kanal Ganda
 - 2 x Slot DDR3 DIMM
 - Mendukung DDR3 1600/1333/1066 non-ECC, memori tanpa buffer
 - Kapasitas maksimum memori sistem: 16GB
 - Mendukung Intel® Extreme Memory Profile (XMP)1.3/1.2

- Slot Ekspansi**
- 1 x Slot PCI Express 3.0 x16 (PCIe1: x16 mode)
 - 1 x Slot PCI Express 2.0 x1

- Grafis**
- Intel® HD Graphics Built-in Visuals dan output VGA hanya didukung dengan prosesor yang terintegrasi GPU.
 - Mendukung Intel® HD Graphics Built-in Visuals: Intel® Quick Sync Video dengan AVC, MVC (S3D), dan MPEG-2 Full HW Encode1, Intel® InTru™ 3D, Teknologi Intel® Clear Video HD, Intel® Insider™, Intel® HD Graphics 4400/4600
 - Pixel Shader 5.0, DirectX 11.1
 - Memori bersama maksimum 1792MB
 - Output VGA Ganda: mendukung port DVI-D dan D-Sub
 - Mendukung DVI-D dengan resolusi maksimum hingga 1920x1200 @ 60Hz
 - Mendukung D-Sub dengan resolusi maksimum hingga 1920x1200 @ 60Hz
 - Mendukung fungsi HDCP dengan port DVI-D
 - Mendukung pemutaran Full HD 1080p Blu-ray (BD) dengan port DVI-D

Audio

- Audio HD 5.1 CH (Realtek ALC662 Audio Codec)
- Mendukung Perlindungan Lonjakan Arus (ASRock Full Spike Protection)

LAN

- PCIE x1 Gigabit LAN 10/100/1000 Mb/s
- Realtek RTL8111GR
- Menggunakan Wake-On-WAN
- Mendukung Wake-On-LAN
- Mendukung Perlindungan Petir/ESD (Perlindungan Penuh Lonjakan Tegangan ASRock)
- Mendukung Deteksi Kabel LAN
- Mendukung Energy Efficient Ethernet 802.3az
- Mendukung PXE

**Panel I/O
Belakang**

- 1 x Port Mouse/Keyboard PS/2
- 1 x Port D-Sub
- 1 x Port DVI-D
- 4 x Port USB 2.0 (Mendukung Perlindungan ESD (ASRock Full Spike Protection))
- 2 x Port USB 3.0 (Mendukung Perlindungan ESD (ASRock Full Spike Protection))
- 1 x Port LAN RJ-45 dengan LED (ACT/LINK LED dan SPEED LED)
- Soket Audio HD: Saluran masuk/Speaker Depan/Mikrofon

Penyimpanan

- 4 x Konektor SATA3 6,0 Gb/s, mendukung fungsi NCQ, AHCI, dan "Hot Plug"

Konektor

- 1 x Header port Cetak
- 1 x Header port COM
- 1 x Header Intrusi Chassis
- 1 x Header TPM
- 1 x Konektor kipas CPU (4-pin)
- 1 x Konektor kipas chassis (4-pin)
- 1 x Konektor kipas daya (3-pin)
- 1 x Konektor daya ATX 24 pin
- 1 x Konektor daya 12V 4 pin
- 1 x Konektor audio panel depan

- 2 x Header USB 2.0 (mendukung 4 port USB 2.0) (Mendukung Perlindungan ESD (ASRock Full Spike Protection))
- 1 x Header USB 3.0 (mendukung 2 port USB 3.0) (Mendukung Perlindungan ESD (ASRock Full Spike Protection))

Fitur BIOS

- 32Mb AMI UEFI Legal BIOS dengan dukungan GUI Multibahasa
- ACPI 1.1 Kompatibel dengan Aktivitas Pengaktifan
- Dukungan SMBIOS 2.3.1
- Multipengatur Tegangan CPU, DRAM, PCH 1,05V, PCH 1,5V

Perangkat Keras Monitor

- Sensor Suhu CPU/Chassis
- Takometer CPU/Chassis/Kipas Daya
- Kipas Hening CPU/Chassis (Memungkinkan Penyesuaian Otomatis Kecepatan Kipas Chassis Berdasarkan Suhu CPU)
- Kontrol Multikecepatan Kipas CPU/Chassis
- Deteksi CASE OPEN
- Pemantauan Tegangan: +12V, +5V, +3,3V, CPU Vcore

OS

- Microsoft® Windows® 8.1 32-bit / 8.1 64-bit / 8 32-bit / 8 64-bit / 7 32-bit / 7 64-bit

Sertifikasi

- FCC, CE, WHQL
- Siap untuk ErP/EuP (memerlukan catu daya untuk ErP/EuP)

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>

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