

Version 1.1

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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.

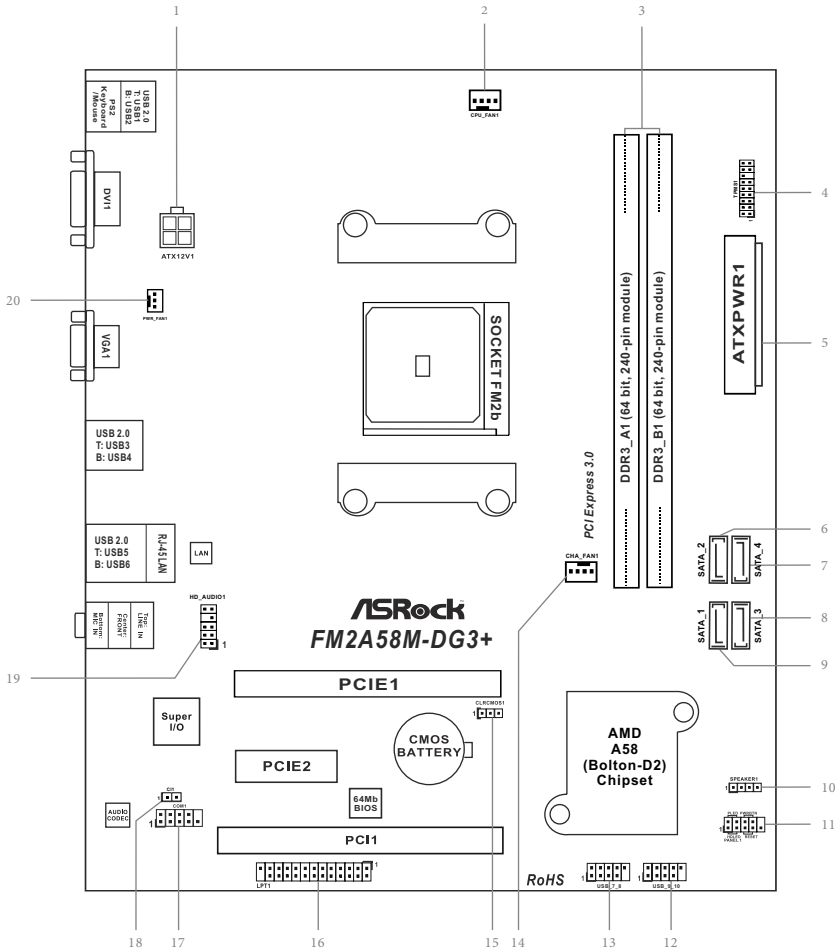
CALIFORNIA, USA ONLY

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”

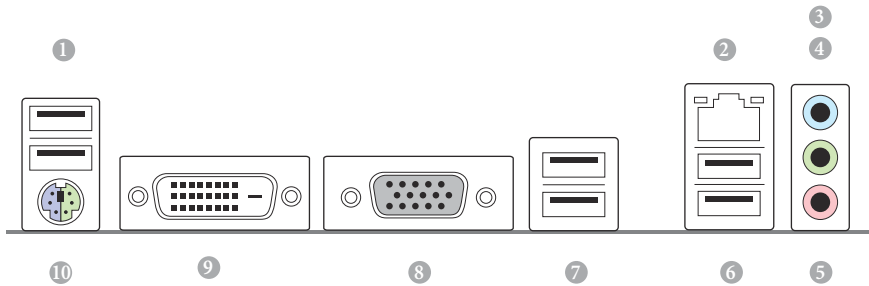
ASRock Website: <http://www.asrock.com>

Motherboard Layout



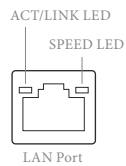
No.	Description
1	ATX 12V Power Connector (ATX12V1)
2	CPU Fan Connector (CPU_FAN1)
3	2 x 240-pin DDR3 DIMM Slots (DDR3_A1, DDR3_B1)
4	TPM Header (TPMS1)
5	ATX Power Connector (ATXPWR1)
6	SATA2 Connector (SATA_2)
7	SATA2 Connector (SATA_4)
8	SATA2 Connector (SATA_3)
9	SATA2 Connector (SATA_1)
10	Chassis Speaker Header (SPEAKER1)
11	System Panel Header (PANEL1)
12	USB 2.0 Header (USB_9_10)
13	USB 2.0 Header (USB_7_8)
14	Chassis Fan Connector (CHA_FAN1)
15	Clear CMOS Jumper (CLRCMOS1)
16	Print Port Header (LPT1)
17	COM Port Header (COM1)
18	Chassis Intrusion Header (CI1)
19	Front Panel Audio Header (HD_AUDIO1)
20	Power Fan Connector (PWR_FAN1)

I/O Panel



No.	Description	No.	Description
1	USB 2.0 Ports (USB_1_2)	6	USB 2.0 Ports (USB_5_6)
2	LAN RJ-45 Port*	7	USB 2.0 Ports
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 the 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 **FM2A58M-DG3+** motherboard, a reliable motherboard produced under ASRock's consistently stringent quality control. It delivers excellent performance with robust design conforming to ASRock's commitment to quality and endurance.

This Quick Installation Guide contains introduction of the motherboard and step-by-step installation guide. More detailed information of the motherboard can be found in the user manual presented in the Support CD.



Because the motherboard specifications and the BIOS software might be updated, the content of this manual will be subject to change without notice. In case any modifications of this manual occur, the updated version will be available on ASRock website without further notice. You may find the latest VGA cards and CPU support lists on ASRock website as well. ASRock website <http://www.asrock.com>

If you require technical support related to this motherboard, please visit our website for specific information about the model you are using.

www.asrock.com/support/index.asp

1.1 Package Contents

ASRock **FM2A58M-DG3+** Motherboard (Micro ATX Form Factor)

ASRock **FM2A58M-DG3+** Quick Installation Guide

ASRock **FM2A58M-DG3+** 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 Socket FM2+ 95W / FM2 100W processors

- Chipset**
- AMD A58 FCH (Bolton-D2)

- Memory**
- Dual Channel DDR3 Memory Technology
 - 2 x DDR3 DIMM Slots
 - Supports DDR3 2400+(OC)/2133(OC)/1866(OC)/1600/1333/1066 non-ECC, un-buffered memory (**see CAUTION 1**)
 - Max. capacity of system memory: 32GB (**see CAUTION 2**)
 - Supports Intel® Extreme Memory Profile (XMP) 1.3 / 1.2
 - Supports AMD Memory Profile Technology (AMP) up to AMP 2400

- Expansion Slot**
- 1 x PCI Express 3.0 x16 Slot (PCIe1@ x16 mode)
 - * PCIe 3.0 is only supported with FM2+ CPU. With FM2 CPU, it only supports PCIe 2.0.
 - 1 x PCI Express 2.0 x1 Slot
 - 1 x PCI Slot
 - Supports AMD Dual Graphics

- Graphics**
- Integrated AMD Radeon™ R7/R5 Series Graphics in A-series APU
 - DirectX 11.1, Pixel Shader 5.0 with FM2+ CPU. DirectX 11, Pixel Shader 5.0 with FM2 CPU.
 - Max. shared memory 2GB
 - Dual graphics output options: support DVI-D and D-Sub by independent display controllers
 - Supports Dual-link DVI-D with max. resolution up to 2560x1600 @ 60Hz

- Supports D-Sub with max. resolution up to 1920x1200 @ 60Hz
- Supports AMD Steady Video™ 2.0: New video post processing capability for automatic jitter reduction on home/online video
- 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 (**see CAUTION 3**)
- 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
- 6 x USB 2.0 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 SATA2 3.0 Gb/s Connectors, support RAID (RAID 0, RAID 1 and RAID 10), NCQ, AHCI and Hot Plug

**Conne-
ctor**

- 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))

BIOS Feature

- 64Mb AMI UEFI Legal BIOS with GUI support
- Supports "Plug and Play"
- ACPI 1.1 Compliant wake up events
- Supports jumperfree
- SMBIOS 2.3.1 support
- DRAM, CPU Voltage multi-adjustment

Hardware Monitor

- CPU temperature sensing
- Chassis temperature sensing
- CPU Fan Tachometer
- Chassis Fan Tachometer
- CPU/Chassis Quiet Fan
- CPU/Chassis Fan multi-speed control
- CASE OPEN detection
- Voltage monitoring: +12V, +5V, +3.3V, Vcore

OS

- Microsoft® Windows® 10 32-bit / 10 64-bit / 8.1 32-bit / 8.1 64-bit / 8 32-bit / 8 64-bit / 7 32-bit / 7 64-bit
- * For the updated Windows® 10 driver, please visit ASRock's website for details: <http://www.asrock.com>
- * Carrizo FM2r2 processor supports Windows® 10 64-bit / 8.1 64-bit / 7 32-bit / 7 64-bit only.

Certifications

- 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>

WARNING

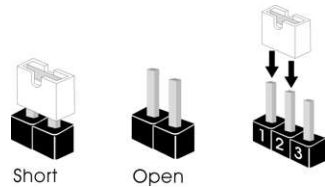
Please realize that there is a certain risk involved with overclocking, including adjusting the setting in the BIOS, applying Untied Overclocking Technology, or using third-party overclocking tools. Overclocking may affect your system's stability, or even cause damage to the components and devices of 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 2400/2133/1866/1600MHz memory speed is supported depends on the CPU you adopt. If you want to adopt DDR3 2400/2133/1866/1600 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® 10 / 8.1 / 8 / 7. 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. Wake-On-WAN allows you to wake up this system from remote mobile devices, such as smart phones, tables, or other PCs. It needs third-party softwares and applications to utilize this feature. Please visit our website for ASRock Cloud topic.

1.3 Jumpers Setup

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



Jumper	Setting	Description
Clear CMOS Jumper (CLRCMOS1) (see p.1, No. 15)	1_2 Default	2_3 Clear CMOS

Note: CLRCMOS1 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 CLRCMOS1 for 5 seconds. However, please do not clear the CMOS right after you update the BIOS. If you need to clear the CMOS when you just finish updating the BIOS, you must boot up the system first, and then shut it down before you do the clear-CMOS action. 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.

1.4 Onboard Headers and Connectors



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

Serial ATA2 Connectors

(SATA_1: see p.1, No. 9)

(SATA_2: see p.1, No. 6)

(SATA_3: see p.1, No. 8)

(SATA_4: see p.1, No. 7)

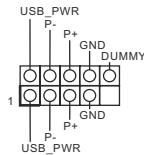


These four Serial ATA2 (SATA2) connectors support SATA data cables for internal storage devices. The current SATA2 interface allows up to 3.0 Gb/s data transfer rate.

USB 2.0 Headers

(9-pin USB_7_8)

(see p.1 No. 13)



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

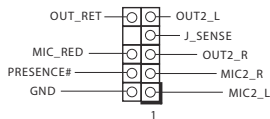
(9-pin USB_9_10)

(see p.1 No. 12)

Front Panel Audio Header

(9-pin HD_AUDIO1)

(see p.1 No. 19)



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.

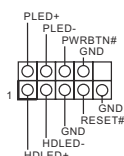
For Windows® 8.1 / 8.1 64-bit / 8 / 8 64-bit / 7 / 7 64-bit 64-bit OS:

Go to the "FrontMic" Tab in the Realtek Control panel. Adjust "Recording Volume".

System Panel Header

(9-pin PANEL1)

(see p.1 No. 11)



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

HDLED (Hard Drive Activity LED):

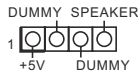
Connect to the hard drive activity LED on the chassis front panel. The LED is on when the hard drive is reading or writing data.

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.

Chassis Speaker Header

(4-pin SPEAKER 1)

(see p.1 No. 10)

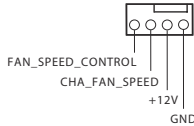


Please connect the chassis speaker to this header.

Chassis and Power Fan Connectors

(4-pin CHA_FAN1)

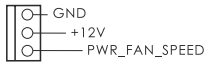
(see p.1 No. 14)



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

(3-pin PWR_FAN1)

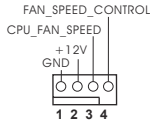
(see p.1 No. 20)



CPU Fan Connector

(4-pin CPU_FAN1)

(see p.1 No. 2)



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.1 No. 5)

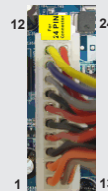


Please connect an ATX power supply to this connector.



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.1 No. 1)

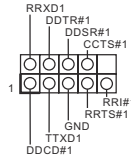


Please connect an ATX 12V power supply to this connector.

Serial port Header

(9-pin COM1)

(see p.1 No. 17)



This COM1 header supports a serial port module.

Chassis Intrusion Header

(2-pin CI1)

(see p.1, No. 18)

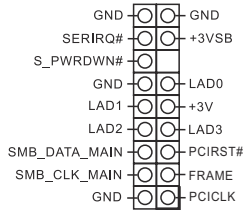


This motherboard supports CASE OPEN detection feature that detects if the chassis cover has been removed. This feature requires a chassis with chassis intrusion detection design.

TPM Header

(17-pin TPMS1)

(see p.1, No. 4)

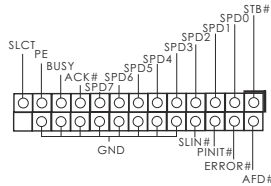


This connector supports Trusted Platform Module (TPM) system, which can securely store keys, digital certificates, passwords, and data. A TPM system also helps enhance network security, protects digital identities, and ensures platform integrity.

Print Port Header

(25-pin LPT1)

(see p.1, No. 16)



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

Spezifikationen

- Plattform**
- Micro-ATX-Formfaktor
 - Alle Feste Kondensatordesign
 - PCB mit hochverdichtetem Glasfasergewebe

- CPU**
- Unterstützt Prozessoren für Sockel FM2+ (95 W) / FM2 (100 W)

- Chipsatz**
- AMD A58 FCH (Bolton-D2)

- Speicher**
- Unterstützung von Dual-Kanal-Speichertechnologie
 - 2 x Steckplätze für DDR3
 - Unterstützt DDR3 2400+(OC)/2133(OC)/1866(OC)/1600/1333/1066 non-ECC, ungepufferter Speicher
 - Max. Kapazität des Systemspeichers: 32GB
 - Unterstützt Intel® Extreme Memory Profile (XMP)1.3/1.2
 - Unterstützt AMDs Memory Profile Technology (AMP) bis AMP 2400

- Erweiterungssteckplätze**
- 1 x PCI Express 3.0 x16-Schlitz (PCIE1: x16-Modus)
 - * PCIE 3.0 wird nur mit FM2+-Prozessor unterstützt.FM2-Prozessor unterstützt nur PCIE 2.0.
 - 1 x PCI Express 2.0 x1-Steckplätze
 - 1 x PCI -Steckplätze
 - Unterstützt AMD duale Grafikkarten

- Onboard-VGA**
- Integrierte Grafikkarte der AMD Radeon™ R7/R5-Serie in APU der A-Serie
 - DirectX 11.1, Pixel Shader 5.0 mit FM2+-Prozessor. DirectX 11, Pixel Shader 5.0 mit FM2-Prozessor.
 - Maximal gemeinsam genutzter Speicher 2GB
 - Doppel-VGA Ausgabe: unterstützt DVI-D und D-Sub Ports durch unabhängige Bildschirmanzeige Kontrolleure

- Unterstützt Dual-link DVI-D mit einer maximalen Auflösung von 2560 x 1600 bei 60 Hz
- Unterstützt D-Sub mit einer maximalen Auflösung von 1920 x 1200 bei 60 Hz

Onboard-VGA

- Unterstützt AMD Steady Video™ 2.0: Neuartige Funktion der Videonachbearbeitung für automatische Reduzierung von Bildschwankungen bei Heim-/Online-Videos
- Unterstützt HDCP mit DVI-D-Ports
- Unterstützt 1080p Blu-ray (BD)-Wiedergabe mit DVI-D-Ports

Audio

- 5.1 CH HD Audio (Realtek ALC662 Audio Codec)
- Unterstützt Überspannungsschutz (ASRocks Komplettschutz vor Spannungsspitzen)

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

E/A-Anschlüsse an der Rückseite

- 1 x PS/2-Maus/Tastaturanschluss
- 1 x D-Sub port
- 1 x DVI-D port
- 6 x Standard-USB 2.0-Anschlüsse (Unterstützt Rundumschutz vor Spannungsspitzen)
- 1 x RJ-45 LAN Port mit LED (ACT/LINK LED und SPEED LED)
- HD Audiobuchse: Audioeingang / Lautsprecher vorne / Mikrofon

- Speicher**
- 4 x SATA 2-Anschluss mit 3,0 Gb/s, unterstützt RAID- (RAID 0, RAID 1 und RAID 10), NCQ-, AHCI- und „Hot Plugging“-Funktionen

- An-
schlüsse**
- 1 x Druckerport-Anschlussleiste
 - 1 x COM-Anschluss-Header
 - 1 x Verteiler für Gehäuseeindringversuche
 - 1 x TPM-Stiftleiste
 - 1 x CPU Lüfter-Anschluss (4-pin)
 - 1 x Gehäuselüfter-Anschluss (4-pin)
 - 1 x Stromlüfter-Anschluss (3-pin)
 - 1 x 24-pin ATX-Netz-Header
 - 1 x 4-pin Anschluss für 12V-ATX-Netzteil
 - 1 x Anschluss für Audio auf der Gehäusevorderseite
 - 2 x USB 2.0-Anschlüsse (Unterstützung 4 zusätzlicher USB 2.0-Anschlüsse) (Unterstützt Schutz vor elektrostatischer Entladung (ASROcks Komplettschutz vor Spannungsspitzen))

- BIOS**
- 64Mb AMIs Legal BIOS UEFI mit GUI-Unterstützung
 - Unterstützung für „Plug and Play“
 - ACPI 1.1-Weckfunktionen
 - JumperFree-Modus
 - SMBIOS 2.3.1
 - DRAM, VDDP, VDDR Stromspannung Multianpassung

- Hardware
Monitor**
- CPU-Temperatursensor
 - Motherboardtemperaturerkennung
 - Drehzahlmessung für CPU Lüfter
 - Drehzahlmessung für Gehäuselüfter
 - Geräuscharmer CPU-/Gehäuselüfter
 - Mehrstufige Geschwindigkeitsteuerung für CPU-/Gehäuselüfter
 - GEHÄUSE OFFEN-Erkennung
 - Spannungsüberwachung: +12V, +5V, +3.3V, Vcore

- Betriebs-
systeme**
- Microsoft® Windows® 8.1 32-bit / 8.1 64-bit / 8 32-bit / 8 64-bit / 7 32-bit / 7 64-bit

**Zertifi-
zierungen**

- FCC, CE, WHQL
- Prêt pour ErP/EuP (alimentation Prêt pour ErP/EuP
requisite)

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

Spécifications

Format

- Facteur de forme Micro ATX
- Accessoires de Carte mère
- PCB High Density Glass Fabric

CPU

- Prend en charge les processeurs à socket FM2+ 95W / FM2 100W

Chipsets

- AMD A58 FCH (Bolton-D2)

Mémoire

- Compatible avec la Technologie de Mémoire à Canal Double
- 2 x slots DIMM DDR3
- Supporter DDR3 2400+(OC)/2133(OC)/1866(OC)/1600/1333/1066 non-ECC, sans amortissement mémoire
- Capacité maxi de mémoire système: 32GB
- Prend en charge le profil I de mémoire extrême Intel® (XMP)1.3/1.2
- Prend en charge la technologie AMD Memory Profile (Profil de mémoire AMD - AMP) jusqu'à AMP 2400

Slot d'extension

- 1 x slots PCI Express 3.0 x16 (PCIe1 à mode x16)
* PCIe 3.0 est uniquement pris en charge le processeur FM2+. Avec le processeur FM2, seul PCIe 2.0 est pris en charge.
- 1 x slot PCI Express 2.0 x1
- 1 x slot PCI
- Support de AMD Dual Graphics

VGA sur carte

- APU AMD Radeon™ R7/R5 série graphiques A-series
- DirectX 11.1, Pixel Shader 5.0 avec processeur FM2+.DirectX 11, Pixel Shader 5.0 avec processeur FM2.
- mémoire partagée max 2GB
- Output de VGA Dual: supporter DVI-D et D-Sub ports par les controleurs de display independents

- Prend en charge le Dual-link DVI-D avec une résolution maximale jusqu'à 2560x1600 @ 60Hz
- Prend en charge le D-Sub avec une résolution maximale jusqu'à 1920x1600 @ 60Hz
- Supporte AMD Steady Video™ 2.0: Nouvelle fonctionnalité de traitement post-vidéo pour réduction automatique des tremblements dans les clips vidéo en ligne/maison
- Prise en charge de la fonction HDCP avec ports DVI-D
- Supporter 1080p Blu-ray(BD) avec ports DVI-D

Audio

- 5,1 CH HD Audio (Realtek ALC662 Audio Codec)
- Supporte la protection contre les surtensions (protection complète contre surges ASRock)

LAN

- PCIE x1 Gigabit LAN 10/100/1000 Mb/s
- Realtek RTL8111GR
- Supporte du Wake-On-WAN
- Supporte du 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 norme Energy Efficient Ethernet (Ethernet à efficacité énergétique) 802.3az
- Supporte PXE

Panneau arrière

- 1 x port souris/clavier PS/2
- 1 x port D-Sub
- 1 x port DVI-D
- 6 x ports USB 2.0 par défaut (Protection intégrale contre les surtensions)
- 1 x port LAN RJ-45 avec LED (ACT/LED CLIGNOTANTE et LED VITESSE)
- Prise HD Audio: Entrée Ligne / Haut-parleur frontal / Microphone

Stockage

- 4 x connecteurs 3,0 Gb/s SATA2, prise en charge des fonctions RAID (RAID 0, RAID 1 et RAID 10), NCQ, AHCI et « Connexion à chaud »

Connecteurs

- 1 x embase de port d'impression
- 1 x En-tête de port COM
- 1 x Embase d'intrusion châssis
- 1 x embase TPM
- 1 x Connecteur pour ventilateur de CPU (br. 4)
- 1 x Connecteur pour ventilateur de Châssis (br. 4)
- 1 x Connecteur pour ventilateur de pouvoir (br. 3)
- 1 x br. 24 connecteur d'alimentation ATX
- 1 x br. 4 connecteur d'alimentation 12V ATX
- 1 x Connecteur audio panneau avant
- 2 x En-tête USB 2.0 (prendre en charge 4 ports USB 2.0 supplémentaires) ((Supporte la protection ESD (protection complète contre surges ASRock))

BIOS

- 64Mb AMI UEFI Legal BIOS avec support GUI
- Support du "Plug and Play"
- Compatible pour événements de réveil ACPI 1.1
- Gestion jumperless
- Support SMBIOS 2.3.1
- DRAM, VDDP, VDDR Tension Multi-ajustement

Surveillance système

- Détection de la température de l'UC
- Mesure de température de la carte mère
- Tachéomètre ventilateur CPU Ventilateur
- Tachéomètre ventilateur Châssis Ventilateur
- Ventilateur silencieux pour unité CPU/boîtier
- Commande de ventilateur CPU/boîtier à plusieurs vitesses
- Détection d'OUVERTURE DE BOÎTIER
- Monitoring de la tension: +12V, +5V, +3.3V, Vcore

OS

- 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
- 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

Piatta- forma

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

Proces- sore

- Supporto per processori socket FM2+ 95W / FM2 100W

Chipset

- AMD A58 FCH (Bolton-D2)

Memoria

- Supporto tecnologia Dual Channel Memory
- 2 x slot DDR3 DIMM
- Supporto DDR3 2400+(OC)/2133(OC)/1866(OC)/1600/1333/1066 non-ECC, memoria senza buffer
- Capacità massima della memoria di sistema: 32GB
- Supporto di Intel® XMP (Extreme Memory Profile) 1.3/1.2
- Supporta tecnologia AMD Memory Profile (AMP) fino ad AMP 2400

Slot di es- pansione

- 1 x slot PCI Express 3.0 x16 (PCI-E1: modalità x16)
* PCIE 3.0 è supportato solo con CPU FM2+. Con CPU FM2, supporta solo PCIE 2.0.
- 1 x slot PCI Express 2.0 x1
- 1 x slot PCI
- Supporta AMD Dual Graphics

VGA su scheda

- Grafica serie AMD Radeon™ R7/R5 integrata in APU serie A
- DirectX 11.1, Pixel Shader 5.0 con CPU FM2+. DirectX 11, Pixel Shader 5.0 con CPU FM2.
- Memoria massima condivisa 2GB
- Uscita VGA Doppia: supporto porte DVI-D e D-Sub tramite verificatore display indipendente
- Supporta Dual-link DVI-D con risoluzione massima fino a 2560x1600 @ 60Hz

- Supporta D-Sub con risoluzione massima fino a 1920x1200 @ 60Hz
- Supporta AMD Steady Video™ 2.0: Nuova capacità di post-elaborazione video per la riduzione automatica delle vibrazioni nei video a casa/on-line
- Supporto della funzione HDCP con le porte DVI-D
- Supporto 1080p Blu-ray (BD) riproduzione con le porte DVI-D

Audio

- 5.1 CH HD Audio (Realtek ALC662 Audio Codec)
- Supporto protezione da sovratensione (protezione completa ASRock dai picchi di corrente)

LAN

- PCIE x1 Gigabit LAN 10/100/1000 Mb/s
- Realtek RTL8111GR
- Supporta 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
- Supporto di Energy Efficient Ethernet 802.3az
- Supporta PXE

Pannello posteriore I/O

- 1 x porta PS/2 per mouse/tastiera
- 1 x Porta D-Sub
- 1 x Porta DVI-D
- 6 x porte USB 2.0 già integrate (Supporta protezione completa contro sovratensioni)
- 1 x porte LAN RJ-45 con LED (LED azione/collegamento e LED velocità)
- Connettore HD Audio: ingresso linea / cassa frontale / microfono

Archiviazione

- 4 x connettori SATA2 3,0 Gb/s, supporto di RAID (RAID 0, RAID 1 e RAID 10) e delle funzioni NCQ, AHCI e "Hot Plug"

Connettori

- 1 x Collettore porta stampante
- 1 x collettore porta COM
- 1 x header di intrusione dello chassis
- 1 x header TPM
- 1 x Connettore CPU ventola (4-pin)
- 1 x Connettore Chassis ventola (4-pin)
- 1 x Connettore Alimentazione ventola (3-pin)
- 1 x 24-pin collettore alimentazione ATX
- 1 x 4-pin connettore ATX 12V
- 1 x Connettore audio sul pannello frontale
- 2 x Collettore USB 2.0 (supporta 4 porte USB 2.0)
(Supporto della protezione da scariche elettrostatiche (ESD) (protezione completa ASRock dai picchi di corrente))

BIOS

- 64Mb AMI UEFI Legal BIOS con interfaccia di supporto
- Supporta "Plug and Play"
- Compatibile con ACPI 1.1 wake up events
- Supporta jumperfree
- Supporta SMBIOS 2.3.1
- Regolazione multi-voltaggio DRAM, VDDP, VDDR

Monitoraggio-Hardware

- Sensore per la temperatura del processore
- Sensore temperatura scheda madre
- Indicatore di velocità per la ventola del CPU
- Indicatore di velocità per la ventola del Chassis
- Ventola CPU/chassis silenziosa
- Ventola CPU/chassis con controllo di varie velocità
- Rilevamento CASE APERTO
- Voltaggio: +12V, +5V, +3.3V, Vcore

Compatibilità 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
- Predisposto ErP/EuP (è necessaria l'alimentazione predisposta per il sistema ErP/EuP)

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

Especificación

Plataforma

- Factor de forma Micro ATX
- Todo diseño de Capacitor Sólido
- PCB de fibra de vidrio de alta densidad

Procesador

- Admite zócalos de procesadores FM2+ 95W / FM2 100W

Chipset

- AMD A58 FCH (Bolton-D2)

Memoria

- Soporte de Tecnología de Memoria de Doble Canal
- 2 x DDR3 DIMM slots
- Apoya DDR3 2400+(OC)/2133(OC)/1866(OC)/1600/1333/1066 non-ECC, memoria de un-buffered
- Máxima capacidad de la memoria del sistema: 32GB
- Compatible con Intel® Extreme Memory Profile (XMP)1.3/1.2
- Admite tecnología de perfil de memoria AMD (AMP, Memory Profile Technology) hasta AMP 2400

Ranuras de Expansión

- 1 x ranuras PCI Express 3.0 x16 (PCI-E1: modo x16)
* Solo se admite PCIe 3.0 con FM2+ CPU. Con FM2 CPU, solo se admite PCIe 2.0.
- 1 x ranura PCI Express 2.0 x1
- 1 x ranura PCI
- Admite AMD tarjeta gráfica dual

VGA On-Board

- Gráficos integrados de serie R7/R5, HD AMD Radeon™ con APU de serie A
- DirectX 11.1, Sombreador de píxeles 5.0 con FM2+ CPU. DirectX 11, Sombreador de píxeles 5.0 con FM2 CPU.
- 2GB de Memoria máxima compartida
- Salida de VGA dual: apoya los puertos de DVI-D y de D-Sub por los reguladores independientes de la exhibición

- Admite Dual-link DVI-D con una resolución máxima de 2560x1600 a 60 Hz
- Admite D-Sub con una resolución máxima de 1920x1200 a 60 Hz
- Admite AMD Steady Video™ 2.0: Nueva capacidad de pospro cesamiento de vídeo para reducción automática de oscila ciones en vídeo doméstico y en línea
- Admite la función HDCP con puertos DVI-D
- Apoya la reproducción de Blu-rayo de 1080p (BD) con puertos DVI-D

Audio

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

LAN

- PCIE x1 Gigabit LAN 10/100/1000 Mb/s
- Realtek RTL8111GR
- Soporta Wake-On-WAN
- Soporta Wake-On-LAN
- Supporto la protezione da fulmini/scariche elettrostat-iche (ESD) (protezione completa ASRock dai picchi di corrente)
- Admite detección de conexión de cable LAN
- Compatible con Ethernet 802.3az de bajo consumo energético
- Compatible con PXE

Entrada/ Salida de Panel Trasero

- 1 x puerto de ratón/teclado PS/2
- 1 x Puerto D-Sub
- 1 x Puerto DVI-D
- 6 x puertos USB 2.0 predeterminados (Admite protección ESD (Protección Integral contra Picos de ASRock))
- 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

Almacenamiento

- 4 x conectores SATA2 de 3,0 Gb/s compatibles con funciones RAID (RAID 0, RAID 1 y RAID 10), NCQ, AHCI y de "conexión en caliente" compatibles con funciones NCQ, AHCI y de "conexión en caliente"

Conectores

- 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 cabezal TPM
- 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)
- 1 x 24-pin cabezal de alimentación ATX
- 1 x 4-pin conector de ATX 12V power
- 1 x Conector de audio de panel frontal
- 2 x Cabezal USB 2.0 (admite 4 puertos USB 2.0 adicionales) (Admite protección ESD (Protección Integral contra Picos de ASRock))

BIOS

- 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 Voltage

Monitor Hardware

- Sensibilidad a la temperatura del procesador
- Sensibilidad a la temperatura de la placa madre
- Taquímetros de los ventiladores del procesador y del CPU
- Taquímetros de los ventiladores del procesador y del chasis

- Ventilador silencioso del CPU y el 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

OS

- En conformidad con 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
- 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

Платформа

- Форм-фактор Micro ATX
- Весь Твердый Конденсаторный проект
- High Density Glass Fabric PCB

Процессор

- Поддержка разъема FM2+ 95 Вт / процессоров FM2 100 Вт

Набор микросхем

- AMD A58 FCH (Bolton-D2)

Память

- Поддержка технологии Dual Channel DDR3 Memory Technology
- 2 х гнезда DDR3 DIMM
- Поддержите DDR3 2400+(OC)/2133(OC)/1866(OC)/1600/1333/1066 не- ECC, безбуферная память 1066/800 не- ECC, безбуферная память
- Макс. 32 Гб
- поддержка профиля Intel® Extreme Memory Profile (XMP) 1.3/1.2
- Поддержка технологии AMD Memory Profile (AMP) до AMP 2400

Гнезда расширения

- 1 х слота PCI Express 3.0 x16 (PCIЕ1: режим x16)
* PCIЕ 3.0 поддерживается только с процессором FM2+. Спроцессором FM2 поддерживается только PCIЕ 2.0.
- 1 х гнезда PCI Express 2.0 x1
- 1 х гнезда PCI
- Поддерживаются режимы AMD Quad CrossFireX™, CrossFireX™ и двойные видеокарты

Графика

- Видеоадаптер AMD Radeon™ R7/R5
Поддержка
- DirectX 11.1, Pixel Shader 5.0 с процессором FM2+. DirectX 11, Pixel Shader 5.0 с процессором FM2.
- Макс. объем разделяемой памяти 2GB
- Двойственное VGA выходное устройство: поддерживает DVI-D и D-Sub порты через независимый контроллер дисплея
- Поддержка Dual-link DVI-D с максимальным разрешением до 2560x1600 @ 60 Гц
- Поддержка D-Sub с максимальным разрешением до 1920x1200 @ 60 Гц
- Поддержка технологии AMD Steady Video™ 2.0: новая функция постобработки видеоизображения для автоматического устранения дрожания при просмотре домашних и онлайн-видеозаписей
- Поддержка функции HDCP через разъемы DVI-D
- Поддержат Blu-луч 1080p (КОММУТАЦИОННАЯ ДОСКА) через разъемы DVI-D

Аудиосистема

- 5.1 CH HD Audio HD (Кодер-декодер Audio Realtek ALC662)
- Поддержка защиты от перенапряжений (Полная защита (ASRock от выбросов напряжения))

ЛВС

- PCIE x 1 Gigabit LAN 10/100/1000 Mb/s
- 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 энергосберегающего интерфейса Ethernet 802.3az
- Поддержка PXE

Разъемы ввода-вывода на задней

- 1 x порт мыши/клавиатуры PS/2
- 1 x D-Sub порт
- 1 x DVI-D порт
- 6 x порта USB 2.0 на задней панели в стандартной конфигурации (Поддержка защиты от электростатического электричества (Полная защита (ASRock от выбросов напряжения))
- Разъем 1 x RJ-45 LAN с светодиодным индикатором (индикатор ACT/LINK и индикатор SPEED)
- Соединитель звуковой подсистемы: линейный вход / передняя колонка / микрофон

Запоминающие устройства

- 4 x разъема SATA2 3,0 Гбит/с, поддержка функций RAID (RAID 0, устройства RAID 1 и RAID 10), NCQ, AHCI и «горячего подключения»

Колодки и плате

- 1 x Разъем порта печати
- 1 x Колодка COM
- 1 x разъем датчика открытой крышки
- 1 x колодка TPM
- 1 x соединитель CPU FAN (4-контактный)
- 1 x соединитель Chassis FAN (4-контактный)
- 1 x соединитель Power FAN (3-контактный)
- 1 x 24-контактный Колодка питания ATX
- 1 x 4-контактный Разъем ATX 12 В
- 1 x Аудиоразъем передней панели
- 2 x Колодка USB 2.0 (одна колодка для поддержки 4 дополнительных портов USB 2.0 (Oferece proteção total contra picos)

BIOS

- 64Mb AMI UEFI Legal BIOS с поддержкой графического интерфейса поль зователя
- поддержка "Plug and Play"
- ACPI 1.1, включение по событиям

- поддержка режима настройки без перемычек
- поддержка SMBIOS 2.3.1
- Регулировка напряжений DRAM, VDDP, VDDR

Контроль оборудования

- Датчики температуры процессора
- Датчики температуры корпуса
- Тахометры вентиляторов ЦП FAN
- Тахометры вентиляторов Шасси FAN
- Бесшумный вентилятор ЦП/Шасси блока
- Мультиконтроль скорости вентилятора ЦП/Шасси
- Определение открытой крышки
- Контроль напряжения: +12V, +5V, +3.3V, Vcore

Операцион

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

ные системы Сертификаты

- 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

- Plataforma**
- Formato Micro ATX
 - Design de condensadores banhados a ouro de alta qualidade
 - PCB de Fibra de Vidro de Alta Densidade

- CPU**
- Suporte para processadores com Socket FM2 de 100W

- Chipsets**
- AMD A58 FCH (Bolton-D2)

- Memória**
- Suporte à tecnologia de memória de duplo canal
 - 2 x slots de DDR3 DIMM
 - Suporta memória DDR3 2400+(OC)/2133(OC)/1866(OC)/1600/1333/1066, não ECC, sem tampão
 - Capacidade máxima de memória do sistema: 32GB
 - Suporta Extreme Memory Profile (XMP) 1.3/1.2 da Intel®
 - Suporta Tecnologia de Perfil de Memória AMD (AMP) até AMP 2400

- Slots de Expansão**
- 1 x slots de PCI Express 3.0 x16 (PCI-E1: modo x16)
 - * PCIE 3.0 é suportado apenas com CPU FM2+. CPU FM2 suporta apenas PCIE 2.0.
 - 1 x slot de PCI Express 2.0 x1
 - 1 x slot de PCI
 - Suporta Dual Graphics da AMD

- VGA integrado**
- Placa gráfica integrada AMD Radeon™ série R7/R5 na APU série A
 - DirectX 11.1, Pixel Shader 5.0 com CPU FM2+. DirectX 11, Pixel Shader 5.0 com CPU FM2.
 - Memória partilhada máxima 2GB
 - Porta de saída VGA dupla: suporta portas DVI-D e D-Sub através de controladores de visualização independentes

- Suporta Dual-link DVI-D com resolução máxima até 2560x1600 @ 60Hz
- Suporta D-Sub com resolução máxima até 1920x1200 @60Hz
- Suporta AMD Steady Video™ 2.0: Nova capacidade de pós-processamento de vídeo para redução automática de vibrações em vídeo local/online
- Suporta função HDCP com portas DVI-D
- Suporta a norma Blu-ray de alta definição 1080p (BD) com portas DVI-D

Áudio

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

LAN

- PCIE x1 Gigabit LAN 10/100/1000 Mb/s
- 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 Ethernet com Eficiência Energética 802.3az
- Suporta PXE

Entrada/ Saída pelo painel

- 1 x porta para teclado/mouse PS/2
- 1 x porta D-Sub
- 1 x porta DVI-D
- 6 x portas USB 2.0 padrão (Tam Gerilim Korumasını Destekler)
- 1 x porta LAN RJ-45 com LED (LED ACT/LIG e LED VELOCIDADE)
- Ficha de áudio HD: Entrada de linha / Altifalante frontal Microfone

Armazenamento

- 4 x conectores SATA2 a 3,0 Gb/s, com suporte para RAID (RAID 0, RAID 1 e RAID 10), NCQ, AHCI e funções Hot Plug

Conectores

- 1 x Conector de Porta de Impressão
- 1 x conector de porta COM
- 1 x Conector de intrusão no chassis
- 1 x Terminal TPM
- 1 x Conector do ventilador da CPU (4 pinos)
- 1 x Conector do ventilador da chassis (4 pinos)
- 1 x Conector do ventilador da energia (3 pinos)
- 1 x Conector de força do ATX de 24 pinos
- 1 x Conector ATX 12 V de 4 pinos
- 1 x Conector Áudio do painel frontal
- 2 x cabezal USB 2.0 (suporta 4 portas USB 2.0) (Suporta Proteção ESD (Proteção Total contra Picos ASRock))

BIOS

- 64Mb BIOS UEFI oficial da AMI com suporte para GUI
- Suporta dispositivos "Plug and Play"
- ACPI 1.1 atendendo a eventos de "wake up"
- Suporta dispositivos sem jumper
- Suporte para SMBIOS 2.3.1
- DRAM, VDDP, VDDR Voltage Multi-adjustment

Monitor do HW

- Sensores de temperature do procesador
- Medição de temperatura da placa-mãe
- Tacômetros de ventilador do Processador
- Tacômetros de ventilador do chassis
- Ventoinha silenciosa para a CPU/Chassis
- CPU/Chassis Fan Controle Multi-Velocidade
- Detecção de CAIXA ABERTA
- Monitoramento de voltagem : +12 V, +5 V, +3.3 V, Vcore

Sistema Operacional

- 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

**Certifica-
ções**

- FCC, CE, WHQL
- “ErP/EuP Ready” (é necessária alimentação eléctrica “ErP/ EuP Ready”)

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

Özellikler

Platform	• Micro ATX Form Faktörü • Tüm Katı Kapasitör tasarımı • Yüksek Yoğunluklu Cam Elyafı Kumaş PCB
CPU	• Yuva FM2+ 95W / FM2 100W işlemciler için destek
Yonga seti	• AMD A58 FCH (Bolton-D2)
Bellek	• Çift Kanallı DDR3 Belleği Teknolojisi • 2 x DDR3 DIMM yuva • DDR3 2400+(OC)/2133(OC)/1866(OC)/1600/1333/1066 ECC olmayan, ara belleksiz bellek • Sistem belleğinin maks. kapasitesi: 32 GB • Intel® Extreme Bellek Profili lini (XMP)1.3/1.2 destekler • AMP 2400'e kadar AMD Bellek Profili Teknolojisini (AMP) destekler
Genişletme Yuvası	• 1 x PCI Express 3.0 x16 yuva (PCIe1: x16 modu) * PCIe 3.0 yalnızca FM2+ İşlemci ile desteklenir. - FM2 İşlemciyle, yalnızca PCIe 2.0 destekler. • 1 x PCI Express 2.0 x1 yuva • 1 x PCI yuva • AMD Dual Graphics'i destekler
Grafikler	• A serisi APU'da tümleşik AMD Radeon R7/R5 serisi grafikler • FM2+ İşlemciyle DirectX 11.1, Pixel Shader 5.0. FM2 İşlemciyle DirectX 11, Pixel Shader 5.0. • Maks. paylaşılan bellek 2GB • Çift VGA Çıkış: desteği DVI-D ve bağımsız görüntü denetleyiciler tarafından D-Sub bağlantı noktaları • 60Hz'de 2560x1600'e kadar maks. çözünürlükle Dual-link DVI-D'ye destekler

- 60Hz'de 1920x1600'ya kadar maks. çözünürlükle D-Sub'a destekler
- AMD Steady Video™ 2.0'yu destekler: Ev/çevrimiçi videoda otomatik titreşim azaltma için yeni video işleme sonrası özelliği
- DVI-D portlarıyla HDCP işlevini destekler
- DVI-D portlarıyla Tam HD 1080p Blu-ray (BD) oynatma destekler

Ses

- (Realtek ALC662 Ses Codec'i) 5,1 Kanal HD Ses
- Dalgalanma Korumasını destekler (ASRock Tam Ani Yükseliş Koruması)

LAN

- PCIE x1 Gigabit LAN 10/100/1000 Mb/sn
- Realtek RTL8111GR
- WAN'da Uyan özelliğini destekler
- LAN'da Uyan özelliğini destekler
- Yıldırım/ESD Korumasını destekler (ASRock Tam Ani Yükseliş Koruması)
- LAN Kablo Algılama'yı destekler
- Enerji Verimli Ethernet 802.3az desteği
- PXE'yi destekler

Arka Panel G/3

- 1 x PS/2 Fare/Klavye Portu
- 1 x D-Sub Portu
- 1 x DVI-D Portu
- 6 x Kullanıma Hazır USB 2.0 Portu (Tam Gerilim Korumasını Destekler)
- 1 x RJ-45 LAN Portu, LED'li (AKT/L3NK LED'i ve HIZ LED)
- HD Ses Jakı: Hat Girişi / Ön Hoparlör / Mikrofon

Depolama

- 4 x SATA2 3,0Gb/sn konektör, donanım RAID (RAID 0, RAID 1 ve RAID 10), NCQ, AHCI ve "Sistem Azalırken Bileşen Takma" işlevlerini

Konektör

- 1 x Yazdırma Portu fişi
- 1 x COM portu fişi
- 1 x Kasaya Yetkisiz Erişim fişi
- 1 x TPM bağlantısı
- 1 x Conector do ventilador da CPU (4 pinos)
- 1 x Conector do ventilador da chassis (4 pinos)
- 1 x Conector do ventilador da energia (3 pinos)
- 1 x 24 pin ATX güç konektörü
- 1 x 4 pin 12V güç konektörü
- 1 x Ön panel ses konektörü
- 2 x USB 2.0 fiş (4 USB 2.0 portu destekler) (ESD Korumasını destekler (ASRock Tam Ani Yükseliş Koruması))

**BIOS
Özelliği**

- 64 Mb AMI BIOS
- GUI destekli AMI UEFI Geçerli BIOS
- “Tak Çalıştır”ı destekler
- ACPI 1.1 Uyumlu Uyandırma Olayları
- Jumpersiz ayarlamayı destekler
- AMBIOS 2.3.1 Desteği
- DRAM, VDDP, VDDR Voltaj Çoklu ayarı

**Donanım
Monitör**

- CPU Sıcaklık Duyarlılığı
- Kasa Sıcaklık Duyarlılığı
- CPU Fan Takometresi
- Kasa Fan Takometresi
- CPU/Kasa Sessiz Fanı
- CPU/Kasa Fan Çoklu-Hız Kontrolü
- KASA AÇIK algılaması
- Voltaj İzleme: +12V, +5V, +3,3V, CPU Vcore

İS

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

**Sertifika-
lar**

- FCC, CE, WHQL
- ErP/EuP Hazır (ErP/EuP hazır güç kaynağı gerekli)

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

설명서

플랫폼

- Micro ATX 폼 팩터
- 완전 고체 축전지 디자인
- 고 밀도 유리 직물 PCB

CPU

- 소켓 FM2+ 95W / FM2 100W 프로세서에 대한 지원

칩셋

- AMD A58 FCH (Bolton-D2)

메모리

- 듀얼 채널 메모리 기술 지원
- DDR3 DIMM 슬롯 2 개
- DDR3 2400+(OC)/2133(OC)/1866(OC)/1600/1333/1066
- 비 -ECC, 언버퍼드 메모리를 지원
- 최대 시스템 메모리 용량 : 32GB
- Intel® 엑스트림 메모리 프로파일 (XMP) 1.3/1.2 지원
- 최대 AMP 2400 의 AMD 메모리 프로파일 기술 (AMP) 지원

확장 슬롯

- 1 x PCI Express 3.0 x16 슬롯 (PCIe1: x16 모드)
- * PCIe 3.0 은 FM2+ CPU 에서만 지원됩니다 . FM2 CPU 의
- 경우 PCIe 2.0 만 지원합니다 .
- 1 개의 PCI Express 2.0 x1 슬롯
- 1 개의 PCI 슬롯
- AMD 듀얼 그래픽 지원

온보드 VGA

- A 시리즈 APU 에 통합된 AMD Radeon™ R7/R5 시리즈 그래픽
- FM2+ CPU 의 경우 DirectX 11.1, Pixel Shader 5.0 탑재 . FM2 CPU 의 경우 DirectX 11, Pixel Shader 5.0 탑재 .
- 최대 공유 메모리 2GB
- 더블 VGA 수출 : DVI-D 와 D-Sub 포트 독립 디스플레이 컨
- 트롤러를 지원
- 최대 해상도 2560x1600 @ 60Hz 까지 Dual-link DVI-D 지원
- 최대 해상도 1920x1200 @ 60Hz 까지 D-Sub 지원
- AMD Steady Video™ 2.0 지원 : 홈 / 온라인 비디오의 자동 떨림 감소를 위한 새로운 비디오 포스트 프로세싱 능력

- DVI-D I 포트를 이용한 HDCP 기능 지원
- DVI-D 포트를 이용한 1080p Blu-ray (BD) 지원

오디오

- 5.1 CH HD Audio (Realtek ALC662 Audio Codec)
- サロジ保護 (ASRock フルスパイク保護) をサポートします

랜

- PCIE x1 Gigabit LAN 10/100/1000 Mb/s
- Realtek RTL8111GR
- Wake-On-WAN 지원
- 웨이크 - 온 - 랜 지원
- 조명 /ESD 보호 (ASRock 풀 스파이크 보호) 지원
- LAN 케이블 감지 지원
- 절전형 이더넷 802.3az 지원
- PXE 지원

후면판 I/O

- 1 개 PS/2 마우스 / 키보드 포트
- 1 개의 D-Sub 포트
- 1 개의 DVI-D 포트
- 6 개디포트 USB 2.0 포트 (ESD 보호 (ASRock 풀 스파이크 보호) 지원)
- 1 개 LED(ACT/LINK LED 및 SPEED LED) 가 있는 RJ-45 LAN 포트
- 오디오 잭 : 라인 인 / 전방 스피커 / 마이크

저장 장치

- 4 개 의 SATA2 3.0Gb/s 커넥터 , RAID (RAID 0, RAID 1 및 RAID 10), NCQ, AHCI 및 “ 핫 플러그 ” 기능 지원

온보드 헤더 및 커넥터

- 프린트 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 헤더 1 개
- 4 핀 ATX 12V 파워 콘넥터 1 개
- 전면부 오디오 콘넥터 1 개
- USB 2.0 헤더 2 개 (4 개의 추가 USB 2.0 포트를 지원하는 헤더 2 개) (ESD 보호 (ASRock 풀 스파이크 보호) 지원)

- BIOS
- 64Mb GUI 지원을 제공하는 AMI UEFI 적합형 BIOS
 - “플러그 앤 플레이”지원
 - ACPI 1.1 웨이크 - 업 이벤트와의 호환
 - 점퍼 프리 지원
 - 점퍼 프리 지원 : SMBIOS 2.3.1 지원
 - DRAM, VDDP, VDDR 전압 멀티 조절

하드웨어 모
니터

- CPU 온도 감지
- 마더보드 온도 감지
- CPU 회전 속도계 : 샤프트 (케이스) 팬 회전 속도계
- 샤프트 회전 속도계 : 샤프트 (케이스) 팬 회전 속도계
- CPU/ 샤프트 저소음 팬
- CPU/ 샤프트 팬 멀티스피드 컨트롤
- 케이스 열림 감지
- 전압 감시 기능 : +12V, +5V, +3.3V, Vcore

OS

- 마이크로 소프트 Windows® 8.1 32 비트 / 8.1 64 비트 / 8 32 비트 / 8 64 비트 / 7 32 비트 / 7 64 비트

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

- ・ マイクロ ATX フォームファクター
- ・ 全ソリッド・キャパシター設計
- ・ 高密度ガラス繊維 PCB

CPU

- ・ Socket FM2+ 95W / FM2 100W プロセッサのサポート

エッブセツ
ト

- ・ AMD A58 FCH (Bolton-D2)

メモリー

- ・ デュアルエャンネル DDR3 メモリーテクノロジー
- ・ DDR3 DIMM スロット x 2
- ・ DDR3 2400+(OC)/2133(OC)/1866(OC)/1600/1333/1066 non-ECC, un-buffered メモリーに対応
- ・ システムメモリの最大容量 : 32GB
- ・ Intel® Extreme Memory Profile(XMP)1.3/1.2 をサポート
- ・ 最大 AMP 2400 までの AMD メモリプロファイルテクノロジー (AMP) に対応

拡張スロツ
ト

- ・ 1 x PCI Express 3.0 x16 スロット (PCI-E1: x16 モード)
- ・ * PCI-E 3.0 は FM2+ CPU でのみサポートされます。FM2 CPU では、PCI-E 2.0 のみをサポートします。
- ・ 1 x PCI Express 2.0 x1 スロット
- ・ 1 x PCI スロット
- ・ AMD DualGraphics に対応

グラフィッ
ク

- ・ A シリーズ APU に統合された AMD Radeon™ R7/R5 シリーズグラフィックス
- ・ FM2+ CPU を搭載した DirectX 11.1、Pixel Shader 5.0。FM2 CPU を搭載した DirectX 11、Pixel Shader 5.0。
- ・ 最大の共有メモリ 2GB
- ・ 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
- ・ 2560x1600 @ 60Hz の最大解像度で Dual-link DVI-D をサポート
- ・ 1920x1200 @ 60Hz の最大解像度で D-Sub をサポート
- ・ 対応 AMD Steady Video™ 2.0 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ホストの処理機能
- ・ HDCP 機能、DVI-D ポートをサポート
- ・ 1080p Blu-ray (BD) / HD-DVD 再生サポート、DVI-D ポートをサポート

- | | |
|-----------|---|
| オーディオ | <ul style="list-style-type: none"> • 5.1 CH HD オーディオ (Realtek ALC662 オーディオ Codec) • スパイク保護をフルサポート |
| LAN | <ul style="list-style-type: none"> • PCIE x1 Gigabit LAN 10/100/1000 Mb/s • Realtek RTL8111GR • ウェイクオン WAN をサポートします • Wake-On-LAN 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 • Energy Efficient Ethernet 802.3az をサポート • PXE をサポート |
| リアパネル I/O | <ul style="list-style-type: none"> • PS/2 マウス / キーボードポート x 1 • D-Sub ポート x 1 • DVI-D ポート x 1 • Ready-to-Use USB 2.0 ポート x 6 (スパイク保護をフルサポート) • LED (ACT/LINK LED および SPEED LED) 付き RJ-45 LAN ポート x 1 • オーディオジャック：入力、前部スピーカー、マイク入力 |
| ストレージ | <ul style="list-style-type: none"> • 4 x SATA2 3.0Gb/ 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 |
| コネクタ | <ul style="list-style-type: none"> • 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 • 1 x TPM ヘッダー • 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 x 1 • 4 ピン 12V 電源コネクタ x 1 • フロントパネルオーディオコネクタ x 1 • USB 2.0 ヘッダー (USB 2.0 用 4 ポートをサポート) x 2 (ESD 保護 (ASRock フルスパイク保護) をサポートします) |

BIOS 関連 機能

- 64Mb AMI UEFI Legal BIOS (GUI サポート)
- プラグ&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 ブリッジ電圧

モニタ

- CPU 温度検知
- マザーボード温度検知
- CPU ファンタコメータ
- シャーシファンタコメータ
- CPU/ マザーボード静音ファン
- CPU/ シャーシファンマルチ速度制御
- ケースオープン検出
- 電源モニター : +12V, +5V, +3.3V, Vcore

OS

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

認証

- FCC, CE, Microsoft® WHQL 認証済み
- ErP/EuP 対応 (ErP/EuP 対応の電源装置が必要です)

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

详细规格

规格尺寸	• Micro ATX 规格 • 全固态电容设计 • 高密度防潮纤维电路板
处理器	• 支持 Socket FM2+ 95W / FM2 100W 处理器
芯片组	• AMD A58X(Bolton-D2)
内存	• 双通道 DDR3 内存技术 • 2 x DDR3 内存插槽 • 支持 DDR3 2400+(OC)/2133(OC)/1866(OC)/1600/1333/1066 non-ECC, un-buffered 内存 • 系统内存最大容量 :32GB • 支持 Intel® Extreme Memory Profile(XMP)1.3/1.2 • 支持最高 AMP 2400 的 AMD Memory Profile(AMP) 技术
扩充插槽	• 1 x PCI Express 3.0 x16 插槽 (PCIe1: x16 模式) *FM2+ CPU 支持 PCIe 3.0, FM2 CPU 只支持 PCIe 2.0. • 1 x PCI Express 2.0 x1 插槽 • 1 x PCI 插槽 • 支持 AMD Dual Graphics
显卡	• A 系列 APU 上集成 AMD Radeon™ R7/R5 显示核心 • FM2+ 为 DirectX 11、Pixel Shader 5.6; FM2 为 DirectX 11、Pixel Shader 5.0 • 最大共享显示内存 2GB • 双重 VGA 输出选项：通过独立显示控制器提供 DVI-D 和 D-Sub 接口 • 支持 Dual-link DVI-D, 最大分辨率达 2560x1600 @ 60Hz • 支持 D-Sub, 最大分辨率达 1920x1200 @ 60Hz • 支持 AMD Steady Video™ 2.0: 全新视频后处理能力, 可为家庭 / 在线视频提供自动降低抖动的功能 • 支持 HDCP with DVI-D 接口 • 通过 DVI-D 接口支持 1080p 蓝光光盘 (BD) 高清晰播放
音效	• 5.1 声道高保真音频 (Realtek ALC662 音频编解码器) • 支持防突波 (ASRock 全防护)

文
中
插
图

- 网络
- PCIE x1 千兆网卡 10/100/1000 Mb/s
 - Realtek RTL8111GR
 - 支持广域网唤醒技术 (Wake-On-WAN)
 - 支持网络唤醒功能 (Wake-On-LAN)
 - 支持防雷击 / 防 ESD 静电 (ASRock 全防护)
 - 支持网线侦测
 - 支持 Energy Efficient Ethernet 802.3az
 - 支持 PXE

- 背板 I/O
- 1 个 PS/2 鼠标 / 键盘接口
 - 1 个 D-Sub 接口
 - 1 个 DVI-D 接口
 - 6 x USB 2.0 接口 (支持防 ESD 静电 (ASRock 全防护))
 - 1 个网卡接口 LED 指示灯 (ACT/LINK LED 和 SPEED LED)
 - HD 音频插孔: 线性书入 / 前置喇叭 / 麦克风

- 存储
- 4 x SATA2 接口 (3.0 Gb/s), 支持 RAID (RAID 0, RAID 1 和 RAID 10), NCQ, AHCI 和热插拔功能

- 板载接口
- 1 x 打印机端口接针
 - 1 x COM 端口接针
 - 1 x 机箱开启警告功能接针
 - 1 x TPM 接针
 - 1x CPU 风扇接口 (1 x 4-pin)
 - 1 x 机箱风扇接口 (4-pin)
 - 1 x 电源风扇接口 (3-pin)
 - 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 针状接头 (支持 4 个 USB 2.0 接口) (支持防 ESD 静电 (ASRock 全防护))

- BIOS 特性
- 支持图形界面的 64Mb AMI UEFI Legal BIOS
 - 支持 “即插即用”
 - 符合 ACPI 1.1, 支持唤醒与自动开机 (Wake Up Events)
 - 支持免跳线
 - 支持 SMBIOS 2.3.1
 - DRAM, CPU 电压多功能调节器

- 硬件监控
- CPU 温度检测
 - 机箱温度侦测
 - CPU 风扇转速计
 - 机箱风扇转速计

- CPU/ 机箱静音风扇（可根据处理器温度自动调节机箱风扇转速）
- CPU/ 机箱风扇多速控制
- 机箱开启侦测
- 电压实时监控：+12V，+5V，+3.3V，核心电压

操作系统	• 支持 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
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|----|---|
| 认证 | <ul style="list-style-type: none">• FCC，CE，WHQL• 支持 ErP/EuP（需要搭配支持 ErP/EuP 的电源供应器） |
|----|---|

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

主機板規格

架構	• Micro ATX 尺寸 • 全固態電容設計 • 高密度防潮纖維電路板
華擎雲	• 支援插座 FM2+ 95W / FM2 100W 處理器
晶片組	• AMD A58 FCH (Bolton-D2)
系統記憶體	• 支援雙通道 DDR3 記憶體技術 • 2 個 DDR3 DIMM 插槽 • 支援 DDR3 2400+(OC)/2133(OC)/1866(OC)/1600/1333/1066 non-ECC、un-buffered 記憶體 • 最高支援 32GB 系統容量 • 支援 Intel® Extreme Memory Profile(XMP)1.3/1.2 • 支援 AMD Memory Profile(AMP) 記憶體模組技術，可高達 AMP 2400
擴充插槽	• 2 x PCI Express 3.0 x16 插槽 (PCIe1: x16 模式) * PCIe 3.0 僅支援 FM2+ CPU。使用 FM2 CPU 時，僅支援 PCIe 2.0。 • 1 x PCI Express 2.0 x1 插槽 • 1 x PCI 插槽 • 支援 AMD 雙顯卡技術
內建顯示	• A 系列 APU 整合 AMD Radeon™ R7/R5 系列顯示晶片 • FM2+ CPU 採用 DirectX 11.1、Pixel Shader 5.0。FM2 CPU 採用 DirectX 11、Pixel Shader 5.0。 • 最大共享記憶體 2GB • 雙 VGA 輸出：透過獨立顯示控制器提供 DVI-D 和 D-Sub 接口 • 支援 Dual-link DVI-D，最高解析度達 2560x1600 @ 60Hz • 支援 D-Sub，最高解析度達 1920x1200 @ 60Hz • 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 • DVI-D 接口支援 HDCP 功能 • DVI-D 接口可播放 1080p 藍光光碟 (BD)
音效	• 5.1 聲道高清晰音效 (Realtek ALC662 音效編解碼器) • 支援防突波 (ASRock 全防護)

網路功能

- PCIE x1 Gigabit LAN 10/100/1000 Mb/s
- Realtek RTL8111GR
- 支援遠端開機 (Wake-On-WAN)
- 支援網路喚醒 (Wake-On-LAN)
- 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

Rear Panel
I/O(後背
板輸入 / 輸
出接口)

- 1 個 PS/2 滑鼠 / 鍵盤接口
- 1 個 D-Sub 接口
- 1 個 DVI-D 接口
- 6 個可直接使用的 USB 2.0 接口 (支援全防護)
- 1 個 RJ-45 區域網接口與 LED 指示燈 (ACT/LINK LED 和 SPEED LED)
- 高清晰音效插孔：音效輸入 / 前置喇叭 / 麥克風

儲存裝置

- 4 x SATA2 3.0Gb/s 接頭，支援 RAID (RAID 0, RAID 1 和 RAID 10), NCQ, AHCI 和熱插拔功能

接頭

- 1 x 印表機接針
- 1 x 序列埠
- 1 x 機殼開啟警告功能接頭
- 1 x TPM 標頭
- 1 x CPU 風扇接頭 (4 針)
- 1 x 機箱風扇接頭 (4 針)
- 1 x 電源風扇接頭 (3 針)
- 1 x 24 針 ATX 電源接頭
- 1 x 4 針 12V 電源接頭
- 1 x 前置音效接頭
- 2 x USB 2.0 接頭 (可支援 4 個額外的 USB 2.0 接口) (支援全防護)

BIOS

- 64Mb AMI BIOS
- AMI UEFI Legal BIOS (支援 GUI)
- 支援即插即用 (Plug and Play, PnP)
- ACPI 1.1 電源管理
- 支援喚醒功能
- 支援 jumperfree 免跳線模式
- DRAM、VDDP、VDDR 電壓多功能調節

硬體監控

- CPU 溫度偵測
- 主機板溫度偵測
- CPU 風扇轉速計
- 機箱風扇轉速計
- CPU/ 機箱靜音風扇
- CPU/ 機箱風扇多速控制
- 機殼開啟偵測
- 電壓範圍：+12V, +5V, +3.3V, 核心電壓

操作系統

- 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
- 支援 ErP/EuP(需要同時使用支援 ErP/EuP 的電源供應器)

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

Spesifikasi

Podium

- Bentuk dan Ukuran Micro ATX
- Desain All Solid Capacitor
- PCB Struktur Kaca Kepadatan Tinggi

CPU

- Didukung untuk prosesor Socket FM2+ 95W/FM2 100W

Grup Chip

- AMD A58 FCH (Bolton-D2)

Ingatan

- Teknologi ingatan DDR3 dwisaluran
- 2 x Alur DDR3 DIMM
- Menggunakan DDR3 2400+(OC)/2133(OC)/1866(OC)/1600/1333/1066
- Kapasitas paling banyak: 32GB
- Mendukung Intel® Extreme Memory Profile (XMP) 1.3/1.2
- Mendukung Teknologi AMD Memory Profile (AMP) hingga AMP 2400

Alur Ekspansi

- 1 x PCI Express 3.0 x16 slots (PCIe1: x16 mode)
- * PCIe 3.0 hanya didukung dengan FM2+ CPU. Dengan FM2 CPU, hanya mendukung PCIe 2.0.
- 1 x PCI Express 2.0 x1 slot
- 1 x Alur PCI
- Mendukung AMD Dual Graphics

Diagram

- Grafis seri AMD Radeon™ R7/R5 terintegrasi di APU seri A
- DirectX 11.1, Pixel Shader 5.0 dengan FM2+ CPU. DirectX 11, Pixel Shader 5.0 dengan FM2 CPU.
- Ingatan sama Max. 2GB
- Output VGA Ganda: mendukung port DVI-D dan D-Sub melalui pengontrol tampilan independen

- Mendukung Dual-link DVI-D dengan resolusi maksimal hingga 2560x1600 @ 60Hz
- Mendukung D-Sub dengan resolusi maksimal hingga 1920x1200 @ 60Hz
- Mendukung AMD Video™ 2.0 Tenang: Baru video pasca kemampuan pengolahan untuk pengurangan jitter otomatis pada rumah / online video
- Mendukung fungsi HDCP dengan port DVI-D
- Mendukung pemutaran 1080p Blu-ray (BD) dengan port DVI-D

Audio

- 5.1 CH HD Audio (Realtek ALC662 Audio Codec)
- Mendukung Perlindungan Lonjakan Tegangan (Perlindungan Penuh Lonjakan Tegangan ASRock)

LAN

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

Papan Belakang I/O

- 1 x Port Mouse/Keyboard PS/2
- 1 x Port D-Sub
- 1 x Port DVI-D
- 6 x Port USB 2.0 siap-dipakai (Mendukung Perlindungan ESD (Perlindungan Penuh Lonjakan Tegangan ASRock))
- 1 x RJ-45 LAN Port LED (ACT/LINK LED dan SPEED LED)
- HD Audio Jack: Line in / Penyuaran Depan / mikropon

Penyimpanan

- 4 x penghubung SATA2 3.0Gb/s, dapat digunakan RAID (RAID 0, RAID 1 dan RAID 10), NCQ, AHCI dan fungsi-fungsi "Hot Plug"

Peng- hubung	• 1 x port header Print • 1 x port header COM • 1 x Chassis Intrusion header • 1 x Header TPM • 1 x Penghubung KIPAS CPU (4 pin) • 1 x Penghubung KIPAS casis (4 pin) • 1 x Penghubung KIPAS Power (3 pin) • Penghubung power 24 pin ATX • Penghubung power 4 pin 12V • Penghubung audio panel dapan • 2 x USB 2.0 header (menggunakan 4 port USB 2.0) (Mendukung Full Spike Protection)
Ciri-ciri BIOS	• 64Mb AMI Legal BIOS • AMI UEFI Legal BIOS dengan dukungan GUI • Menggunakan "Plug and Play" • ACPI 1.1 Compliance Wake Up Events • Menggunakan jumperfree • Penyokong AMBIOS 2.3.1 • Penyesuaian berbagai tegangan DRAM, VDDP, VDDR
Penjaga Hardware	• Perasa Suhu CPU • Perasa Suhu Casis • Pengukur Kipas CPU • Pengukur Kipas casis • Kipas diam CPU/casis • Kontrol Multi-Kecepatan Kipas CPU/casis • Deteksi CASING TERBUKA • Penjagaan voltasi: +12V, +5V, +3.3V, Vcore
OS	• Kompatibel dengan Microsoft® Windows® 8.1 32-bit / 8.1 64-bit / 8 32-bit / 8 64-bit / 7 32-bit / 7 64-bit
Sertifi- kasi	• FCC, CE, WHQL • ErP/EuP Ready (memerlukan catu daya ErP/EuP ready)

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



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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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EC-Declaration of Conformity

For the following equipment:

Motherboard

(Product Name)

FM2A58M-DG3+ / ASRock

(Model Designation / Trade Name)

ASRock Incorporation

(Manufacturer Name)

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

(Manufacturer Address)

is herewith confirmed to comply with the requirements set out in the Council Directive on the Approximation of the Laws of the Member States relating to Electromagnetic Compatibility Directive (2004/108/EC) and Safety Directive (2006/95/EC), the following standards are applied:

- ☒ EN 55022: 2006+A1:2007
- ☒ EN 61000-3-2: 2009
- ☒ EN 61000-3-3: 2008
- ☒ EN 55024: 1998 + A1:2001 + A2:2003
 - IEC 61000-4-2: 2008;
 - IEC 61000-4-3: 2010; IEC 61000-4-4: 2010;
 - IEC 61000-4-5: 2005; IEC 61000-4-6: 2008;
 - IEC 61000-4-8: 2009; IEC 61000-4-11: 2004;
- ☒ EN 60950-1: 2005 + A1:2009
 - IEC 60950-1: 2006 + A11:2009 + A1:2010 + A12:2011

The following manufacturer / importer or authorized representative established within the EUT is responsible for this declaration:

ASRock EUROPE B.V.

(Company Name)

Bijsterhuizen 3151 6604 LV Wijchen The Netherlands

(Company Address)

Person responsible for making this declaration:

(Name, Surname)

A.V.P

(Position / Title)

Mar. 9, 2014

(Date)