

Version 1.0

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

CALIFORNIA, USA ONLY

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

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

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

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English

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.

In this documentation, Chapter 1 and 2 contains the introduction of the motherboard and step-by-step installation guides. Chapter 3 contains the operation guide of the software and utilities. Chapter 4 contains the configuration guide of the BIOS setup.



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.

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) · Dual Channel DDR3 Memory Technology Memory · 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** Expan- 1 x PCI Express 3.0 x16 Slot (PCIE1@ x16 mode) * PCIE 3.0 is only supported with FM2+ CPU. With FM2 sion Slot 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 6.0 Gb/s Connectors, support RAID (RAID 0, RAID 1 and RAID 10), NCQ, AHCI and Hot Plug

Connec-

tor

- 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[®] 8.1 32-bit / 8.1 64-bit / 8 32-bit / 8 64-bit / 7 32-bit / 7 64-bit

Certifica-

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

^{*} For detailed product information, please visit our website: http://www.asrock.com

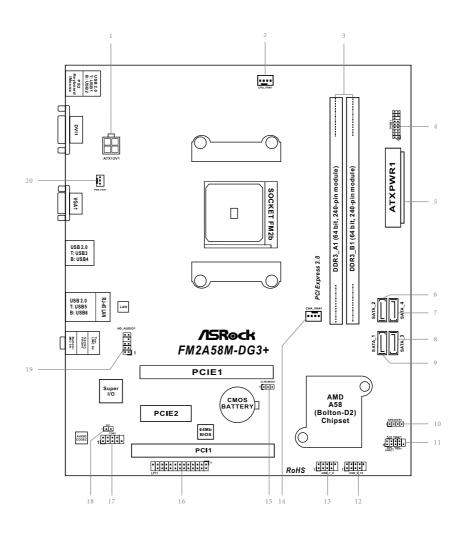
WARNING

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!

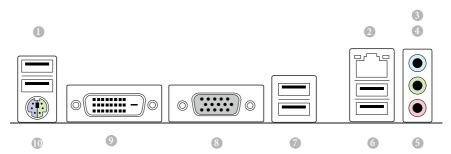
- Whether 2400/2133/1866/1600MHz memory speed is supported depends on the CPU you adopt. If you want to adopt DDR3 2400/2133/1866/1600 memory module on this motherboard, please refer to the memory support list on our website for the compatible memory modules.
 - ASRock website http://www.asrock.com
- Due to the operating system limitation, the actual memory size may be less than 4GB for the reservation for system usage under Windows® 8.1 / 8 / 7. For Windows® 64-bit OS with 64bit CPU, there is no such limitation. You can use ASRock XFast RAM to utilize the memory that Windows® cannot use.
- 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 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)

1.4 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 (USB_3_4)
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

English

2. Installation

This is a Micro ATX form factor motherboard. Before you install the motherboard, study the configuration of your chassis to ensure that the motherboard fits into it.

Pre-installation Precautions

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

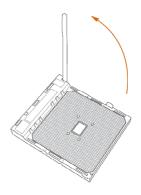


Before you install or remove any component, ensure that the power is switched off or the power cord is detached from the power supply. Failure to do so may cause severe damage to the motherboard, peripherals, and/or components.

- Unplug the power cord from the wall socket before touching any component.
- To avoid damaging the motherboard components due to static electricity, NEVER place your motherboard directly on the carpet or the like. Also remember to use a grounded wrist strap or touch a safety grounded object before you handle components.
- 3. Hold components by the edges and do not touch the ICs.
- Whenever you uninstall any component, place it on a grounded antistatic pad or in the bag that comes with the component.
- When placing screws into the screw holes to secure the motherboard to the chassis, please do not over-tighten the screws! Doing so may damage the motherboard.

2.1 CPU Installation

Step 1. Unlock the socket by lifting the lever up to a 90° angle.



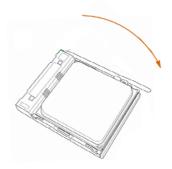
- Step 2. Position the CPU directly above the socket such that the CPU corner with the golden triangle matches the socket corner with a small triangle.
- Step 3. Carefully insert the CPU into the socket until it fits in place.



The CPU fits only in one correct orientation. DO NOT force the CPU into the socket to avoid bending of the pins.



Step 4. When the CPU is in place, press it firmly on the socket while you push down the socket lever to secure the CPU. The lever clicks on the side tab to indicate that it is locked.



2.2 Installation of CPU Fan and Heatsink

After you install the CPU into this motherboard, it is necessary to install a larger heatsink and cooling fan to dissipate heat. You also need to spray thermal grease between the CPU and the heatsink to improve heat dissipation. Make sure that the CPU and the heatsink are securely fastened and in good contact with each other. Then connect the CPU fan to the CPU FAN connector (CPU_FAN1, see Page 10, No. 2). For proper installation, please kindly refer to the instruction manuals of the CPU fan and the heatsink.

2.3 Installation of Memory Modules (DIMM)

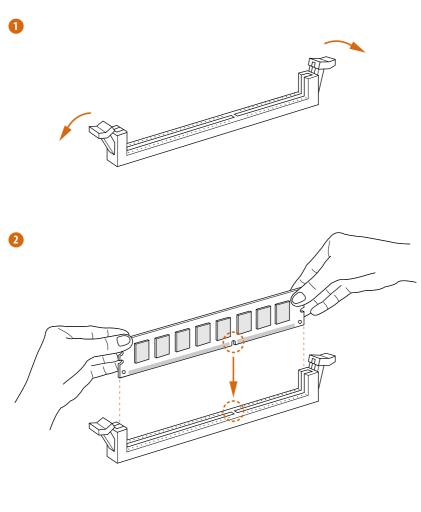
This motherboard provides two 240-pin DDR3 (Double Data Rate 3) DIMM slots, and supports Dual Channel Memory Technology.

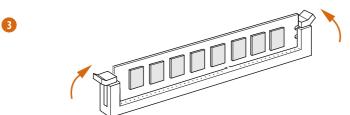


- For dual channel configuration, you always need to install identical (the same brand, speed, size and chip-type) DDR3 DIMM pairs.
- 2. It is unable to activate Dual Channel Memory Technology with only one memory module installed.
- 3. It is not allowed to install a DDR or DDR2 memory module into a DDR3 slot; otherwise, this motherboard and DIMM may be damaged.



The DIMM only fits in one correct orientation. It will cause permanent damage to the motherboard and the DIMM if you force the DIMM into the slot at incorrect orientation.





2.4 Expansion Slots (PCI and PCI Express Slots)

There are 1 PCI slot and 2 PCI Express slots on this motherboard.



Before installing an expansion card, please make sure that the power supply is switched off or the power cord is unplugged. Please read the documentation of the expansion card and make necessary hardware settings for the card before you start the installation.

PCI Slot: PCI slot is used to install expansion cards that have the 32-bit PCI

interface.

PCIE Slots:

PCIE1 (PCIe 3.0 x16 slot) is used for PCI Express x16 lane width graphics cards

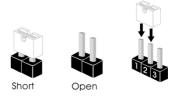
PCIE2 (PCIe 2.0 x1 slot) is used for PCI Express cards with x1 lane

width cards

English

2.5 Jumpers Setup

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



Jumper	Setting		Description	
Clear CMOS Jumper	1 2	2 3	_	
(CLRCMOS1)				
(see p.10, No. 15)	Default	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

2.6 Onboard Headers and Connectors



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

Serial ATA2 Connectors

(SATA_1: see p.10, No. 9)

(SATA 2: see p.10, No. 6)

(SATA_3: see p.10, No. 8)

(SATA 4: see p.10, 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.10 No. 13)

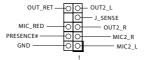


Besides six default USB 2.0 ports on the I/O panel, there are two USB 2.0 headers on this motherboard. Each USB 2.0 header can support two USB 2.0 ports.

(9-pin USB_9_10) (see p.10 No. 12)

Front Panel Audio Header

(9-pin HD_AUDIO1) (see p.10 No. 19)



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



- 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.

F 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.10 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 sys-tem 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 assign-ments are matched correctly.

Chassis Speaker Header

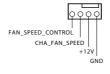
(4-pin SPEAKER 1) (see p.10 No. 10)



Please connect the chassis speaker to this header.

Chassis and Power Fan Connectors

(4-pin CHA_FAN1) (see p.10 No. 14)



PWR_FAN_SPEED

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

(3-pin PWR_FAN1)

(see p.10 No. 20)



(4-pin CPU_FAN1) (see p.10 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.10 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.10 No. 1)



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

Serial port Header

(9-pin COM1) (see p.10 No. 17)



This COM1 header supports a serial port module.

Chassis Intrusion Header

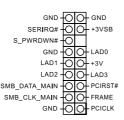
(2-pin CI1) (see p.10, No. 18)



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

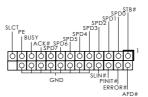
(17-pin TPMS1) (see p.10, No. 4)



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.10, No. 16)



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

2.7 AMD Dual Graphics Operation Guide

This motherboard supports AMD Dual Graphics feature.

Graphics brings multi-GPU performance capabilities by enabling an AMD A58 (Bolton-D2) integrated graphics processor and a discrete graphics processor to operate simultaneously with combined output to a single display for blisteringly-fast frame rates. Currently, AMD Dual Graphics Technology is only supported with Windows® 8.1 / 8 / 7 OS.

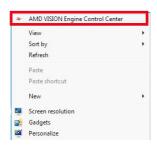


What does an AMD Dual Graphics system include?

An AMD Dual Graphics system includes an AMD Radeon™ R7/R5 Series graphics processor and a motherboard based on an AMD A58 (Bolton-D2) integrated chipset, all operating in a Windows® 8.1 / 8 / 7 environment. Please refer to AMD website for further information: http://www.amd.com/us/products/technologies/dual-graphics.aspx#3

Enjoy the benefit of AMD Dual Graphics

- Step 1. Please keep the default UEFI setting of "Dual Graphics" option on [Auto].
- Step 2. Install one AMD RADEON PCI Express graphics card to PCIE1 slot.
- Step 3. Connect the monitor cable to the onboard VGA port. Please be noted that the current VGA driver / VBIOS can allow Dual Graphics output from onboard display only. For any future update, please refer to our website for further information.
- Step 4. Boot into OS. Please remove the AMD driver if you have any VGA driver installed in your system.
- Step 5. Install the onboard VGA driver from our support CD to your system for both the onboard VGA and the discrete graphics card.
- Step 6. Restart your computer. Right-click the desktop. Click "AMD VISION Engine Control Center" to enter AMD VISION Engine Control Center.



Step 7. You can also click "AMD VISION Engine Control Center" on your Windows® taskbar to enter AMD VISION Engine Control Center.



AMD VISION Engine Control Center

Step 8. In AMD VISION Engine Control Center, please choose "Performance". Click "AMD CrossFire TM ".



Step 9. Click "Enable CrossFire $^{\text{TM}}$ " and click "Apply" to save your change.



Step 10. Reboot your system. Then you can freely enjoy the benefit of Dual Graphics feature.

^{*} Dual Graphics appearing here is a registered trademark of AMD Technologies Inc., and is used only for identification or explanation and to the owners' benefit, without intent to infringe.

^{*} For further information of AMD Dual Graphics technology, please check AMD website for up dates and details.

3. Software and Utilities Operation

3.1 Installing Drivers

The Support CD that comes with the motherboard contains necessary drivers and useful utilities that enhance the motherboard's features.

Running The Support CD

To begin using the support CD, insert the CD into your CD-ROM drive. The CD automatically displays the Main Menu if "AUTORUN" is enabled in your computer. If the Main Menu does not appear automatically, locate and double click on the file "ASRSETUP.EXE" in the Support CD to display the

Drivers Menu

The drivers compatible to your system will be auto-detected and listed on the support CD driver page. Please click Install All or follow the order from top to bottom to install those required drivers. Therefore, the drivers you install can work properly.

Utilities Menu

The Utilities Menu shows the application software that the motherboard supports. Click on a specific item then follow the installation wizard to install it.

3.2 A-Tuning

A-Tuning is ASRock's multi purpose software suite with a new interface, more new features and improved utilities, including XFast RAM, Dehumidifier, Good Night LED, FAN-Tastic Tuning, OC Tweaker and a whole lot more.

3.2.1 Installing A-Tuning

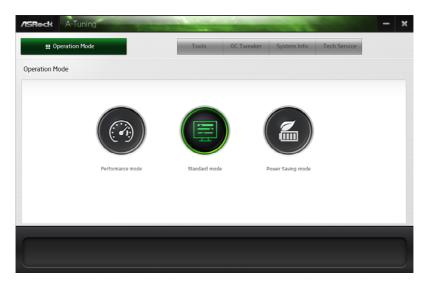
When you install the all-in-one driver to your system from ASRock's support CD, A-Tuning will be auto-installed as well. After the installation, you will find the icon "A-Tuning" on your desktop. Double-click the "A-Tuning" icon, A-Tuning main menu will pop up.

3.2.2 Using A-Tuning

There are five sections in A-Tuning main menu: Operation Mode, Tools, OC Tweaker, System Info and Tech Service.

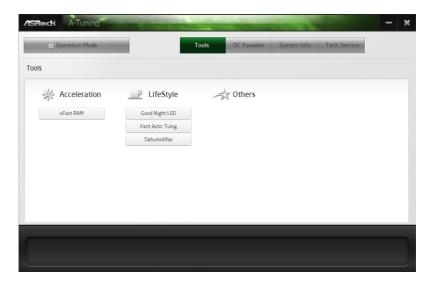
Operation Mode

Choose an operation mode for your computer.



Tools

Various tools and utilities



XFast RAM

Boost the system's performance and extend the HDD's or SDD's lifespan! Create a hidden partition, then assign which files should be stored in the RAM drive

Fast Boot

Fast Boot minimizes your computer's boot time. Please note that Ultra Fast mode is only supported by Windows 8 and the VBIOS must support UEFI GOP if you are using an external graphics card.

OMG

Schedule the starting and ending hours of Internet access granted to other users. Place X marks on the time table to disable the Internet

Good Night LED

Switch off the Power/HDD/LAN LEDs when the system is on, and automatically switch off the Power and Keyboard LEDs when the system enters into Standby/Hibernation mode.

English

FAN-Tastic Tuning

Configure up to five different fan speeds using the graph. The fans will automatically shift to the next speed level when the assigned temperature is met

Dehumidifier

Prevent motherboard damages due to dampness. Enable this function and configure the period of time until the computer powers on, and the duration of the dehumidifying process.

OC Tweaker

Configurations for overclocking the system.



System Info

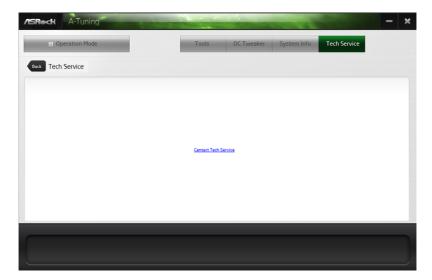
View information about the system.

System Browser

System Browser shows the overview of your current PC and the devices connected.

Tech Service

Contact Tech Service.



3.3 ASRock Cloud

ASRock makes your mobile devices connect to your PC seamlessly!



Have you ever been in a situation where you emergently needed certain files in your computer, however the computer was gazillion miles away out of reach? ASRock Cloud includes several technologies and software solutions for remotely controlling your computer, even if the computer is in off mode. For ASRock motherboards with a *Realtek*® LAN chip, ASRock Cloud allows users to remotely wake up their computers via the internet by using a secondary device, such as a smartphone or tablet. Users may use *Orbweb.ME Professional* to remotely wake up and control their computers, or they could wake up the computer then use any other preferred remote desktop application. This motherboard supports Wake-On-WAN with the onboard Realtek® LAN, so you can connect with your PC from anywhere in the world. You will be able to power your PC on or turn it off, monitor and take control of it remotely with another smartphone, tablet or computer.

^{*}ASRock Cloud is supported on Windows 8.1 or Windows 7.

3.3.1 Realtek® Wake-On-WAN

Realtek® Wake-On-WAN allows you to wake up and remote control your home computer from sleep or shutdown state.

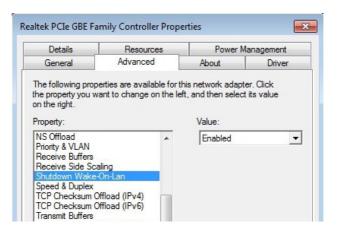
Before configuring this feature, verify the followings on your host computer:

 Make sure that the "PCIE Devices Power On" is enabled in UEFI SETUP UTILITY > Advanced > ACPI Configuration.



*The UEFI screen is for reference only. The actual screen may differ by model.

Make sure that the "Shutdown Wake-On-Lan" is enabled in Device
 Manager > Network Adapters > Realtek PCIe GBE Family Controller >
 Advanced.



^{*}The screen is for reference only. The actual screen may differ on different computers.

3.3.2 Configuring and Using Orbweb.ME Professional

Orbweb.ME Professional is a remote control software allowing you to easily access and control the remote host installed with the Orbweb.ME Professional host software.

Installing Orbweb.ME Professional on the Host Computer

You can find the Orbweb.ME Professional host software in the Support CD or just download it from http://orbweb.me.

Step 1

Click on the Orbweb.ME Professional installer package file to start installation.

Step 2

Follow the onscreen instructions to complete the installation.

Step 3

When installation completes, reboot the computer.

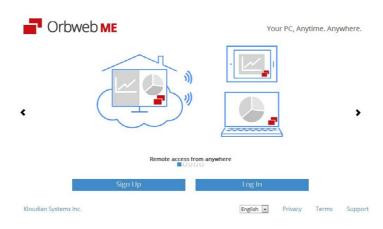
Signing Up for Host Computer Registration

Step 1

Double-click the Orbweb.ME Professional icon on your desktop.

Step 2

On the Orbweb.ME Portal login page, click **Sign Up** to create an Orbweb.ME account and name your host computer.



Step 3

You will receive a verification email. Follow the steps in the email to verify your account.

After verifying your account, you can access your PC through web browsers at http://orbweb.me.

On the Account Verified page, if you click **Go to My Computers**, you will see the Orbweb.ME portal page as a client.

Setting Up Shared Folders on Host Computer

Step 1

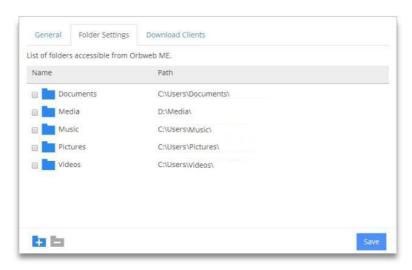
Double-click the Orbweb.ME Professional icon on your desktop.

Or, if you just finished signing up for your host computer, you can click Configure this computer in the screen to begin.

Step 2

Click Folder Settings tab and the default shared folders display.

To add a folder, click . Select a folder to add it into Orbweb.ME. Then click Save.



You can access the documents in these shared folders on the host computer remotely through Xplorer from your client device.

REMOTE ACCESS FROM A CLIENT DEVICE



The lastest version of Java is required to be installed to use the Remote Desktop and Xplorer functions.



Sing Remote Wake-Up

Remote Wake-Up allows you to remotely put your host computer to sleep and wake your host computer up from a client device.



If you use a motherboard with dual LAN ports, please disable one of the LAN ports to use the Remote Wake-Up function. To do so, go to Control Panel > Network and Sharing Center > Manage Network Connections, right-click Local Area Connections and select Disable.

For Windows PC users:

Step 1

Go to Orbweb.ME portal login page: http://orbweb.me

Step 2

Log in with your Orbweb.ME account and password.

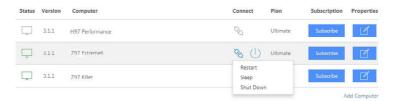
Step 3

Find the host computer from the list by the computer name you give.



Step 4

Click and power options appear. Click to select **Restart**, **Sleep** or **Shut Down**.



Select Restart from the options to restart your host computer remotely.

When you select **Sleep** or **Shut Down**, if the host device is WOW(Wake-On-Wan) compatible, you can put your host computer to sleep (S3/S4) or shut down your host computer (S5) remotely. The host status in the Status column shows offline and ready to be awaked $\stackrel{\square}{\Longrightarrow}$ and the power option shows wakable $\stackrel{\square}{\smile}$. To wake up the computer, click $\stackrel{\square}{\smile}$.



Please be noted that if the host device is not WOW compatible, the host status icon will turn offline and the power option icon will disappear. You have to physically wake up computer in order to bring power option icon back to online.

For iOS or Android Mobile Devices users:

Download and install "Orbweb.ME Professional" app from the App Store (iOS) or Play Store (Android).

Step 1

Tap the "Orbweb.ME Professional" app icon to launch it.

Step 2

Log in with your Orbweb.ME account and password.

Step 3

Tap the **Power Options** icon and power options appear.

Tap to select Restart, Sleep or Shutdown.







Please be noted that if the host device is not WOW compatible, the host status icon will turn offline and the power option icon will dissappear. You have to physically wake up computer in order to bring power option icon back to online.



Remote Desktop allows you to remotely access your host computer from a client device.

For Windows PC users:

Step 1

Go to Orbweb.ME portal login page: http://orbweb.me

Step 2

Log in with your Orbweb.ME account and password.

Step 3

Click the Connect icon



Step 4

Click on Remote Desktop.

If the Remote Desktop Connection dialog appears, click Connect to continue





Step 5



Please refer to the user manual of the Orbweb.ME Professional for more instructions on how to use Orbweb.ME Professional.

For iOS or Android Mobile Devices users:

Download and install "Orbweb.ME Professional" app from the App Store (iOS) or Play Store (Android).

Step 1

Tap the "Orbweb.ME Professional" app icon to launch it.

Step 2

Log in with your Orbweb.ME account and password.

Step 3

Tap the host computer name that you want to access under the **Remote Desktop** section.



Step 4

Enter the Windows password to log in and you will see the desktop of your host computer.

Using Xplorer

Xplorer allows you to remotely access documents on your host computer from a client device.

For Windows PC users:

Step 1

Go to Orbweb.ME portal login page: http://orbweb.me

Step 2

Log in with your Orbweb.ME account and password.

Step 3

Click the **Connect** icon

Step 4

Click on Xplorer.





Step 5

Root directory displays. Click on a folder name to open the folder.

■ Name ▲	Type Size	Date
Documents	Folder	2014-03-24
		21:50:41
Music	Folder	2014-03-24
		21:37:03
Pictures	Folder	2014-03-24
		21:37:03
Videos	Folder	2014-03-24
		21:37:03

Step 6

Click on a file name to preivew the file.

You can also delete, rename, move, and copy a selected file. For more instructions on how to use Xplorer, refer to the user manual of the Orbweb.ME Professional.

For iOS or Android Mobile Devices users:

Download and install "Orbweb.ME Professional" app from the App Store (iOS) or Play Store (Android).

Step 1

Tap the "Orbweb.ME Professional" app icon to launch it.

Step 2

Log in with your Orbweb.ME account and password.

Step 3

Tap the **Connect** icon

Step 4

Tap a folder name under the **Xplorer** section and you can see the files in this folder.



Tap a file name to preivew the file.

You can also delete, rename, move, and copy a selected file. For more instructions on how to use Xplorer, refer to the user manual of the Orbweb. ME Professional.



English

3.4 Start8

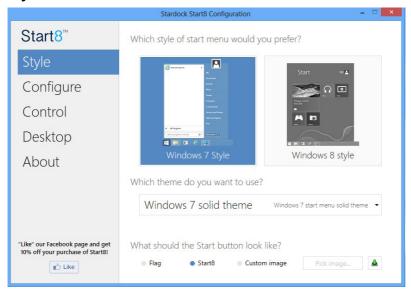
For those Windows 8 users who miss the Start Menu, Start8 is an ideal solution that brings back the familiar Start Menu along with added customizations for greater efficiency.

3.4.1 Installing Start8

Install Start8, which is located in the folder at the following path of the Support CD: \ ASRock Utility > Start8.

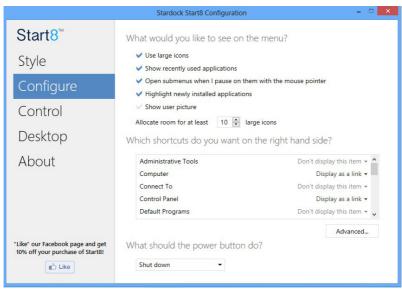
3.4.2 Configuring Start8

Style



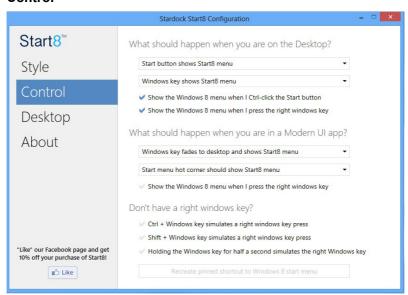
Select between the Windows 7 style and Windows 8 style Start Menu. Then select the theme of the Start Menu and customize the style of the Start icon.

Configure



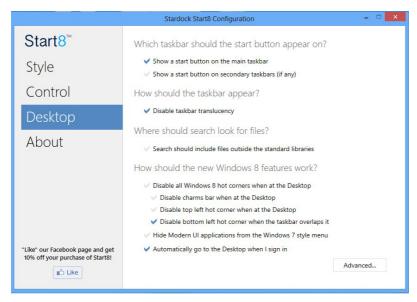
Configure provides configuration options, including icon sizes, which shortcuts you want Start Menu to display, quick access to recently used apps, the functionality of the power button, and more.

Control



Control lets you configure what a click on the start button or a press on the Windows key does.

Desktop



Desktop allows you to disable the hot corners when you are working on the desktop. It also lets you choose whether or not the system boots directly into desktop mode and bypass the Metro user interface.

About

Displays information about Start8.

4. UEFI SETUP UTILITY

4.1 Introduction

ASRock Interactive UEFI is a blend of system configuration tools, cool sound effects and stunning visuals. Not only will it make BIOS setup less difficult but also a lot more amusing. This section explains how to use the UEFI SETUP UTILITY to configure your system. The UEFI chip on the motherboard stores the UEFI SETUP UTILITY. You may run the UEFI SETUP UTILITY when you start up the computer. Please press <F2> or <Delete> during the Power-On-Self-Test (POST) to enter the UEFI SETUP UTILITY, otherwise, POST will continue with its test routines.

If you wish to enter the UEFI SETUP UTILITY after POST, restart the system by pressing <Ctl> + <Alt> + <Delete>, or by pressing the reset button on the system chassis. You may also restart by turning the system off and then back on.



Because the UEFI software is constantly being updated, the following UEFI setup screens and descriptions are for reference purpose only, and they may not exactly match what you see on your screen.

4.1.1 UEFI Menu Bar

The top of the screen has a menu bar with the following selections:

Main For setting system time/date information

OC Tweaker For overclocking configurations

Advanced For advanced system configurations

Tool Useful tools

H/W Monitor Displays current hardware status

Boot For configuring boot settings and boot priority

Security For security settings

Exit Exit the current screen or the UEFI SETUP UTILITY

Use < \leftarrow > key or < \rightarrow > key to choose among the selections on the menu bar, and use < \uparrow > key or < \downarrow > key to move the cursor up or down to select items, then press <Enter> to get into the sub screen. You can also

navigate with a mouse.

4.1.2 Navigation Keys

Please check the following table for the function description of each navigation key.

Navigation Key(s)	Function Description
← / →	Moves cursor left or right to select Screens
↑ <i>I</i> ↓	Moves cursor up or down to select items
+ / -	To change option for the selected items
<tab></tab>	Switch to next function
<enter></enter>	To bring up the selected screen
<pgup></pgup>	Go to the previous page
<pgdn></pgdn>	Go to the next page
<home></home>	Go to the top of the screen
<end></end>	Go to the bottom of the screen
<f1></f1>	To display the General Help Screen
<f7></f7>	Discard changes and exit the UEFI SETUP UTILITY
<f9></f9>	Load optimal default values for all the settings
<f10></f10>	Save changes and exit the UEFI SETUP UTILITY
<f12></f12>	Print screen
<esc></esc>	Jump to the Exit Screen or exit the current screen

4.2 Main Screen

When you enter the UEFI SETUP UTILITY, the Main screen will appear and display the system overview.



Active Page on Entry

This allows you to select the default page when entering UEFI setup utility.

4.3 OC Tweaker Screen

In the OC Tweaker screen, you can set up overclocking features.



CPU Configuration

Overclock Mode

Use this to select Overclock Mode. Configuration options: [Auto] and [Manual]. The default value is [Auto].

Spread Spectrum

This item should always be [Auto] for better system stability.

AMD Turbo Core Technology

This item appears only when the processor you adopt supports this feature. Use this to select enable or disable AMD Turbo Core Technology. Configuration options: [Enabled] and [Disabled]. The default value is [Enabled].

AMD Application power Management

Application Power Management (APM) ensures that average power consumption over a thermally significant time period remains at or below the TDP for the CPU mode being used. If [Enabled] is selected, the power consumption is reduced when overclocking.

Processor Maximum Frequency

It will display Processor Maximum Frequency for reference.

Processor Maximum Voltage

It will display Processor Maximum Voltage for reference.

Multiplier/Voltage Change

This item is set to [Auto] by default. If it is set to [Manual], you may adjust the value of Processor Frequency and Processor Voltage. However, it is recommended to keep the default value for system stability.

GFX Engine Clock

Use this to adjust GFX Engine Clock. The default value is [Auto].

DRAM Timing Configuration

DRAM Frequency

If [Auto] is selected, the motherboard will detect the memory module(s) inserted and assigns appropriate frequency automatically.

DRAM Timing Control



DRAM Slot

Use this item to view SPD data

DRAM Timing Control

Use this item to control DRAM timing.

Power Down Enable

Use this item to enable or disable DDR power down mode.

Bank Interleaving

Interleaving allows memory accesses to be spread out over banks on the same node, or accross nodes, decreasing access contention.

Channel Interleaving

It allows you to enable Channel Memory Interleaving. Configuration options: [Disabled], [Auto]. The default value is [Auto].

Voltage Configuration

DRAM Voltage

Use this to select DRAM Voltage. The default value is [Auto].

SB Voltage

Use this to select SB Voltage. The default value is [Auto].

4.4 Advanced Screen

In this section, you may set the configurations for the following items: CPU Configuration, Nouth Bridge Configuration, South Bridge Configuration, Storage Configuration, Super IO Configuration, USB Configuration and Trusted Computing.





Setting wrong values in this section may cause the system to malfunction.

4.4.1 CPU Configuration



Core C6 Mode

Use this item to enable or disable Core C6 mode. The default value is [Enabled].

Cool 'n' Quiet

Use this item to enable or disable AMD's Cool 'n' Quiet[™] technology. The default value is [Enabled]. Configuration options: [Enabled] and [Disabled]. If you install Windows[®] 8.1 / 8 / 7 and want to enable this function, please set this item to [Enabled]. Please note that enabling this function may reduce CPU voltage and memory frequency, and lead to system stability or compatibility issue with some memory modules or power supplies. Please set this item to [Disable] if above issue occurs.

SVM

When this option is set to [Enabled], a VMM (Virtual Machine Architecture) can utilize the additional hardware capabilities provided by AMD-V. The default value is [Enabled]. Configuration options: [Enabled] and [Disabled].

CPU Thermal Throttle

Use this item to enable CPU internal thermal control mechanism to keep the CPU from overheated. The default value is [Auto].

English

4.4.2 North Bridge Configuration



IOMMU

This allows you to enable or disable IOMMU support.

Primary Graphics Adapter

This item will switch the PCI Bus scanning order while searching for video card. It allows you to select the type of Primary VGA in case of multiple video controllers. The default value of this feature is [PCI Express]. Configuration options: [Onboard], [PCI] and [PCI Express].

Share Memory

This allows you to set the share memory feature. The default value is [Auto]. Configuration options: [Auto], [32MB], [64MB], [128MB], [256MB] [512MB], [1GB] and [2GB].

Onboard HDMI HD Audio

This allows you to enable or disable the "Onboard HDMI HD Audio" feature.

DVI Function

Use this to select DVI function when you install the DVI to HDMI adapter to DVI port. Configuration options: [as Dual Link DVI] and [as HDMI]. If you select [as Dual Link DVI], you can use Dual Link DVI monitor without audio function. If you select [as HDMI], you can use HDMI monitor with audio function. The default value is [as Dual Link DVI].

4.4.3 South Bridge Configuration



Onboard HD Audio

Select [Auto], [Enabled] or [Disabled] for the onboard HD Audio feature. If you select [Auto], the onboard HD Audio will be disabled when PCI Sound Card is plugged.

Front Panel

Select [Auto] or [Disabled] for the onboard HD Audio Front Panel.

Onboard LAN

This allows you to enable or disable the onboard LAN feature.

Good Night LED

Enable this option to turn off Power LED when the system is power on.

The keyboard LED will also be turned off in S3 and S4 state.

The default value is [Auto].

4.4.4 Storage Configuration



SATA Controller

Use this item to enable or disable the "SATA Controller" feature.

SATA Mode

Use this item to adjust SATA Mode. The default value of this option is [AHCI Mode]. Configuration options: [AHCI Mode], [RAID Mode] and [IDE Mode].

AMD AHCI BIOS ROM

Use this item to enable or disable AMD AHCI BIOS ROM. The default value of this option is [Disabled].

SATA IDE Combined Mode

Use this item to enable or disable SATA IDE combined mode. The default value is [Enabled].

Hard Disk S.M.A.R.T.

Use this item to enable or disable the S.M.A.R.T. (Self-Monitoring, Analysis, and Reporting Technology) feature. Configuration options: [Disabled], [Auto], [Enabled].

4.4.5 Super IO Configuration



PS2 Y-Cable

Enable the PS2 Y-Cable or set this option to Auto.

Serial Port

Use this item to enable or disable the onboard serial port.

Serial Port Address

Use this item to set the address for the onboard serial port. Configuration options: [3F8h / IRQ4] and [3E8h / IRQ4].

Parallel Port

Enable or disable the Parallel port.

Device Mode

Select the device mode according to your connected device.

Change Settings

Select the address of the Parallel port.

4.4.6 ACPI Configuration



Suspend to RAM

Use this item to select whether to auto-detect or disable the Suspend-to-RAM feature. Select [Auto] will enable this feature if the OS supports it.

Check Ready Bit

Enable to enter the operating system after S3 only when the hard disk is ready, this is recommended for better system stability.

Deep Sleep

Configure deep sleep mode for power saving when the computer is shut down. We recommend disabling Deep Sleep for better system compatibility and stability.

Restore on AC/Power Loss

This allows you to set the power state after an unexpected AC/power loss. If [Power Off] is selected, the AC/power remains off when the power recovers. If [Power On] is selected, the AC/power resumes and the system starts to boot up when the power recovers.

PS/2 Keyboard Power On

Use this item to enable or disable PS/2 keyboard to turn on the system from the power-soft-off mode.

PCI Devices Power On

Use this item to enable or disable PCI devices to turn on the system from the power-soft-off mode.

Ring-In Power On

Use this item to enable or disable Ring-In signals to turn on the system from the power-soft-off mode.

RTC Alarm Power On

Use this item to enable or disable RTC (Real Time Clock) to power on the system.

USB Keyboard/Remote Power On

Use this item to enable or disable USB Keyboard/Remote to power on the system.

USB Mouse Power On

Use this item to enable or disable USB Mouse to power on the system.

ACPI HPET table

Use this item to enable or disable ACPI HPET Table. The default value is [Enabled]. Please set this option to [Enabled] if you plan to use this motherboard to submit Windows® certification.

4.4.7 USB Configuration



USB 2.0 Controller

Use this item to enable or disable the use of USB 2.0 controller.

Legacy USB Support

Use this option to select legacy support for USB devices. There are four confi guration options: [Enabled], [Auto], [Disabled] and [UEFI Setup Only]. The default value is [Enabled]. Please refer to below descriptions for the details of these four options:

[Enabled] - Enables support for legacy USB.

[Auto] - Enables legacy support if USB devices are connected.

[Disabled] - USB devices are not allowed to use under legacy OS and UEFI setup when [Disabled] is selected. If you have USB compatibility issue, it is recommended to select [Disabled] to enter OS.

[UEFI Setup Only] - USB devices are allowed to use only under UEFI setup and Windows / Linux OS.

4.4.8 Trusted Computing



Security Device Support

Enable or disable BIOS support for security device.

4.5 Tool



System Browser

System Browser can let you easily check your current system configuration in UEFI setup.

OMG(Online Management Guard)

Administrators are able to establish an internet curfew or restrict internet access at specified times via OMG. You may schedule the starting and ending hours of internet access granted to other users. In order to prevent users from bypassing OMG, guest accounts without permission to modify the system time are required.

UEFI Tech Service

Contact ASRock Tech Service if you are having trouble with your PC. Please setup network configuration before using UEFI Tech Service.

Easy RAID Installer

Easy RAID Installer helps you to copy the RAID driver from the support CD to your USB storage device. After copying the drivers please change the SATA mode to RAID, then you can start installing the operating system in RAID mode.

Easy Driver Installer

For users that don't have an optical disk drive to install the drivers from our support CD, Easy Driver Installer is a handy tool in the UEFI that installs the LAN driver to your system via an USB storage device, then downloads and installs the other required drivers automatically.

UEFI Update Utility

Instant Flash

Instant Flash is a UEFI flash utility embedded in Flash ROM. This convenient UEFI update tool allows you to update system UEFI without entering operating systems first like MS-DOS or Windows®. Just save the new

UEFI file to your USB flash drive, floppy disk or hard drive and launch this tool, then you can update your UEFI only in a few clicks without preparing an additional floppy diskette or other complicated flash utility. Please be noted that the USB flash drive or hard drive must use FAT32/16/12 file system. If you execute Instant Flash utility, the utility will show the UEFI files and their respective information. Select the proper UEFI file to update your UEFI, and reboot your system after the UEFI update process is completed.

Internet Flash

Internet Flash searches for available UEFI firmware updates from our servers. In other words, the system can auto-detect the latest UEFI from our servers and flash them without entering Windows OS.

Network Configuration



Internet Setting

Use this item to set up the internet connection mode. Configuration options: [DHCP (Auto IP)] and [PPPOE].

UEFI Download Server

Use this item to select UEFI firmware download server for Internet Flash. Configuration options: [Asia], [Europe], [USA] and [China].

Dehumidifier Function

Users may prevent motherboard damages due to dampness by enabling "Dehumidifier Function". When enabling Dehumidifier Function, the computer will power on automatically to dehumidify the system after entering S4/S5 state.

Dehumidifier Period

This allows users to configure the period of time until the computer powers on and enables "Dehumidifier" after entering S4/S5 state.

Dehumidifier Duration

This allows users to configure the duration of the dehumidifying process before it returns to S4/S5 state.

Dehumidifier CPU Fan Setting

Use this setting to configure CPU fan speed while "Dehumidifier" is enabled.

Would you like to save current setting user defaults?

In this option, you are allowed to load and save three user defaults according to your own requirements.

4.6 Hardware Health Event Monitoring Screen

In this section, it allows you to monitor the status of the hardware on your system, including the parameters of the CPU temperature, motherboard temperature, CPU fan speed, chassis fan speed, and the critical voltage.



CPU Fan 1 Setting

This allows you to set the CPU fan 1 speed. Confi guration options: [Full On] and [Automatic Mode]. The default is value [Full On].

Chassis Fan 1 Setting

This allows you to set the chassis fan 1 speed. Confi guration options: [Full On], [Manual Mode] and [Automatic Mode]. The default is value [Full On].

Over Temperature Protection

Use this item to enable or disable Over Temperature Protection. The default value is [Enabled].

Case Open Feature

This allows you to enable or disable case open detection feature. The default is value [Disabled].

Clear Status

This option appears only when the case open has been detected. Use this option to keep or clear the record of previous chassis intrusion status.

4.7 Boot Screen

In this section, it will display the available devices on your system for you to configure the boot settings and the boot priority.



Fast Boot

Fast Boot minimizes your computer's boot time. There are three configuration options: [Disabled], [Fast] and [Ultra Fast]. The default value is [Disabled]. Please refer to below descriptions for the details of these three options:

[Disabled] - Disable Fast Boot.

[Fast] - The only restriction is you may not boot by using an USB flash drive

[Ultra Fast] - There are a few restrictions.

- 1. Only supports Windows® 8.1/8 UEFI operating system.
- You will not be able to enter BIOS Setup (Clear CMOS or run utility in Widows® to enter BIOS Setup).
- If you are using an external graphics card, the VBIOS must support UEFI GOP in order to boot.

Boot From Onboard LAN

Use this item to enable or disable the Boot From Onboard I AN feature

Setup Prompt Timeout

This shows the number of seconds to wait for setup activation key.

Bootup Num-Lock

If this item is set to [On], it will automatically activate the Numeric Lock function after boot-up.

Full Screen Logo

Use this item to enable or disable OEM Logo. The default value is [Enabled].

Option ROM Messages

[Force BIOS] - The third-party ROM messages will be forced to display during the bootsequence.

[Keep Current] - The third-party ROM messages will be displayed only if the third-partymanufacturer had set the add-on device to do so.

Boot Failure Guard

Enable or disable the feature of Boot Failure Guard.

Boot Failure Guard Count

Enable or disable the feature of Boot Failure Guard Count.

CSM (Compatibility Support Module)



CSM

Enable to launch the Compatibility Support Module. Please do not disable unless you're running a WHCK test. If you are using Windows® 8.1/8 64-bit and all of your devices support UEFI, you may also disable CSM for faster boot speed.

Launch PXE OpROM Policy

Select UEFI only to run those that support UEFI option ROM only. Select Legacy only to run those that support legacy option ROM only. Do not launch?

Launch Storage OpROM Policy

Select UEFI only to run those that support UEFI option ROM only. Select Legacy only to run those that support legacy option ROM only. Do not launch?

Launch Video OpROM Policy

Select UEFI only to run those that support UEFI option ROM only. Select Legacy only to run those that support legacy option ROM only. Do not launch?

4.8 Security Screen

In this section, you may set or change the supervisor/user password for the system. For the user password, you may also clear it.



Secure Boot

Enable to support Windows® 8.1/8 Secure Boot.

4.9 Exit Screen



Save Changes and Exit

When you select this option, it will pop-out the following message, "Save configuration changes and exit setup?" Select [OK] to save the changes and exit the UEFI SETUP UTILITY.

Discard Changes and Exit

When you select this option, it will pop-out the following message, "Discard changes and exit setup?" Select [OK] to exit the UEFI SETUP UTILITY without saving any changes.

Discard Changes

When you select this option, it will pop-out the following message, "Discard changes?" Select [OK] to discard all changes.

Load UEFI Defaults

Load UEFI default values for all the setup questions. F9 key can be used for this operation.

English

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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