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The terms HDMI™ and HDMI High-Definition Multimedia Interface, and the HDMI logo are trademarks or registered trademarks of HDMI Licensing LLC in the United States and other countries.
4.3 Advanced Screen
   4.3.1 CPU Configuration
   4.3.2 Chipset Configuration
   4.3.3 Storage Configuration
   4.3.4 Super IO Configuration
   4.3.5 ACPI Configuration
   4.3.6 USB Configuration
   4.3.7 Trusted Computing
4.4 Tools
4.5 Hardware Health Event Monitoring Screen
4.6 Security Screen
4.7 Boot Screen
4.8 Exit Screen
Chapter 1 Introduction

Thank you for purchasing ASRock J3455M/J3355M 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 manual, 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.

1.1 Package Contents

- ASRock J3455M/J3355M Motherboard (Micro ATX Form Factor)
- ASRock J3455M/J3355M Quick Installation Guide
- ASRock J3455M/J3355M Support CD
- 2 x Serial ATA (SATA) Data Cables (Optional)
- 1 x I/O Panel Shield
1.2 Specifications

**Platform**
- Micro ATX Form Factor
- Solid Capacitor design

**CPU**
- Intel® Quad-Core Processor J3455 (up to 2.3 GHz) *(for J3455M)*
- Intel® Dual-Core Processor J3355 (up to 2.5 GHz) *(for J3355M)*

**Memory**
- Dual Channel DDR3/DDR3L Memory Technology
- 2 x DDR3/DDR3L DIMM Slots
  * 2GB DRAM is not supported.
  * Supports DDR3/DDR3L 1866/1600/1333 non-ECC, unbuffered memory
  * Max. capacity of system memory: 16GB
  * Intel® Extreme Memory Profile (XMP) is not supported

**Expansion Slot**
- 1 x PCI Express 2.0 x16 Slot (PCIE2: x1 mode)
- 2 x PCI Express 2.0 x1 Slots

**Graphics**
- Integrated Intel® HD Graphics 500: 12 EUs inside (Up to 750MHz) *(for J3455M)*
- Integrated Intel® HD Graphics 500: 12 EUs inside (Up to 700MHz) *(for J3355M)*
- DirectX 12, Pixel Shader 5.0
- Three graphics output options: D-Sub, DVI-D and HDMI
- Supports Triple Monitor
- Supports HDMI with max. resolution up to 4K x 2K (3840x2160) @ 30Hz or 2560x1600 @ 60Hz
- Supports DVI-D with max. resolution up to 1920x1200 @ 60Hz
- Supports D-Sub with max. resolution up to 2048x1536 @ 60Hz
- Supports Auto Lip Sync, xvYCC and HBR (High Bit Rate Audio) with HDMI Port (Compliant HDMI monitor is required)
- Supports HW Accelerated Decoders: H.264 @ level 5.2, HEVC (H.265) 10b @ MP level 5.1 (GPU accelerated), JPEG, VP8, VP9
- Supports HDCP with DVI-D and HDMI Ports
- Supports Full HD 1080p Blu-ray (BD) playback with DVI-D and HDMI Ports
### Audio
- 7.1 CH HD Audio (Realtek ALC887 Audio Codec)
  * To configure 7.1 CH HD Audio, it is required to use an HD front panel audio module and enable the multi-channel audio feature through the audio driver.
  - Supports Surge Protection (ASRock Full Spike Protection)
  - ELNA Audio Caps

### LAN
- PCIE x1 Gigabit LAN 10/100/1000 Mb/s
- Realtek RTL8111E
- 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 Port
- 1 x PS/2 Keyboard Port
- 1 x D-Sub Port
- 1 x DVI-D Port
- 1 x HDMI Port
- 2 x USB 2.0 Ports (Supports ESD Protection (ASRock Full Spike Protection))
- 2 x USB 3.0 Ports (Supports ESD Protection (ASRock Full Spike Protection))
- 1 x RJ-45 LAN Port with LED (ACT/LINK LED and SPEED LED)
- HD Audio Jacks: Line in / Front Speaker / Microphone

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

### Connector
- 1 x Print Port Header
- 2 x COM Port Headers
- 1 x TPM Header
- 1 x Chassis Intrusion and Speaker Header
- 1 x CPU Fan Connector (3-pin)
- 1 x Chassis Fan Connector (3-pin)
- 1 x 24 pin ATX Power Connector
- 1 x Front Panel Audio Connector
• 1 x BIOS_PH Connector
• 3 x USB 2.0 Headers (Support 5 USB 2.0 ports) (Supports ESD Protection (ASRock Full Spike Protection))
• 1 x USB 3.0 Headers (Support 2 USB 3.0 ports) (Supports ESD Protection (ASRock Full Spike Protection))

BIOS Feature
• AMI UEFI Legal BIOS with GUI support
• Supports Plug and Play
• ACPI 5.0 compliant wake up events
• Supports jumperfree
• SMBIOS 2.7 support

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

OS
• Microsoft® Windows® 10 64-bit
* For the updated Windows® 10 driver, please visit ASRock’s website for details: http://www.asrock.com
• Linux: Ubuntu 16.10 / Fedora 25

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
1.3 Motherboard Layout
<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>BIOS_PH Connector</td>
</tr>
<tr>
<td>2</td>
<td>CPU Fan Connector (CPU_FAN1)</td>
</tr>
<tr>
<td>3</td>
<td>Clear CMOS Jumper (CLRMOS1)</td>
</tr>
<tr>
<td>4</td>
<td>2 x 240-pin DDR3 DIMM Slots (DDR3_A1, DDR3_B1)</td>
</tr>
<tr>
<td>5</td>
<td>ATX Power Connector (ATXPWR1)</td>
</tr>
<tr>
<td>6</td>
<td>SATA3 Connector (SATA3_1)</td>
</tr>
<tr>
<td>7</td>
<td>SATA3 Connector (SATA3_2)</td>
</tr>
<tr>
<td>8</td>
<td>USB 3.0 Header (USB3_2_3)</td>
</tr>
<tr>
<td>9</td>
<td>Chassis Intrusion and Speaker Header (SPK_CI1)</td>
</tr>
<tr>
<td>10</td>
<td>System Panel Header (PANEL1)</td>
</tr>
<tr>
<td>11</td>
<td>Chassis Fan Connector (CHA_FAN1)</td>
</tr>
<tr>
<td>12</td>
<td>USB 2.0 Header (USB_4_5)</td>
</tr>
<tr>
<td>13</td>
<td>USB 2.0 Header (USB6)</td>
</tr>
<tr>
<td>14</td>
<td>USB 2.0 Header (USB_2_3)</td>
</tr>
<tr>
<td>15</td>
<td>Print Port Header (LPT1)</td>
</tr>
<tr>
<td>16</td>
<td>COM Port Header (COM1)</td>
</tr>
<tr>
<td>17</td>
<td>COM Port Header (COM2)</td>
</tr>
<tr>
<td>18</td>
<td>TPM Header (TPMS1)</td>
</tr>
<tr>
<td>19</td>
<td>Front Panel Audio Header (HD_AUDIO1)</td>
</tr>
</tbody>
</table>
# 1.4 I/O Panel

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>PS/2 Mouse Port</td>
<td>7</td>
<td>USB 3.0 Ports (USB3_01)</td>
</tr>
<tr>
<td>2</td>
<td>LAN RJ-45 Port*</td>
<td>8</td>
<td>HDMI Port</td>
</tr>
<tr>
<td>3</td>
<td>Line In (Light Blue)**</td>
<td>9</td>
<td>DVI-D Port</td>
</tr>
<tr>
<td>4</td>
<td>Front Speaker (Lime)**</td>
<td>10</td>
<td>D-Sub Port</td>
</tr>
<tr>
<td>5</td>
<td>Microphone (Pink)**</td>
<td>11</td>
<td>PS/2 Keyboard Port</td>
</tr>
<tr>
<td>6</td>
<td>USB 2.0 Ports (USB01)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>ACT/LINK LED</th>
<th>SPEED LED</th>
<th>LAN Port</th>
</tr>
</thead>
<tbody>
<tr>
<td>Status</td>
<td>Description</td>
<td>Status</td>
</tr>
<tr>
<td>Off</td>
<td>No Link</td>
<td>Off</td>
</tr>
<tr>
<td>Blinking</td>
<td>Data Activity</td>
<td>Orange</td>
</tr>
<tr>
<td>On</td>
<td>Link</td>
<td>Green</td>
</tr>
</tbody>
</table>
To configure 7.1 CH HD Audio, it is required to use an HD front panel audio module and enable the multi-channel audio feature through the audio driver.

Please set Speaker Configuration to "7.1 Speaker" in the Realtek HD Audio Manager.

Function of the Audio Ports in 7.1-channel Configuration:

<table>
<thead>
<tr>
<th>Port</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>Light Blue (Rear panel)</td>
<td>Rear Speaker Out</td>
</tr>
<tr>
<td>Lime (Rear panel)</td>
<td>Front Speaker Out</td>
</tr>
<tr>
<td>Pink (Rear panel)</td>
<td>Central/Subwoofer Speaker Out</td>
</tr>
<tr>
<td>Lime (Front panel)</td>
<td>Side Speaker Out</td>
</tr>
</tbody>
</table>
Chapter 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.

- Make sure to unplug the power cord before installing or removing the motherboard. Failure to do so may cause physical injuries to you and damages to motherboard components.
- In order to avoid damage from static electricity to the motherboard’s components, NEVER place your motherboard directly on a carpet. Also remember to use a grounded wrist strap or touch a safety grounded object before you handle the components.
- Hold components by the edges and do not touch the ICs.
- Whenever you uninstall any components, place them on a grounded anti-static pad or in the bag that comes with the components.
- When placing screws to secure the motherboard to the chassis, please do not overtighten the screws! Doing so may damage the motherboard.
2.1 Installing 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.
- It is unable to activate Dual Channel Memory Technology with only one or three memory module installed.
- 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.
2.2 Expansion Slot (PCI Express Slot)

There are three PCI Express slots on the motherboard.

- **PCIE1 (PCIe 2.0 x1 slot)** is used for PCI Express cards with x1 lane width cards.
- **PCIE2 (PCIe 2.0 x16 slot)** is used for PCI Express x16 lane width graphics cards.
- **PCIE3 (PCIe 2.0 x1 slot)** is used for PCI Express cards with x1 lane width cards.

**Warning:**
To ensure better graphics compatibility, the BIOS is set to "boot from Onboard VGA" as default even the user install a VGA card on PCIe slot.

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.
2.3 Jumpers Setup

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

Clear CMOS Jumper
(CLRMOS1)
(see p.5, No. 3)

CLRMOS1 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 CLRMOS1 for 5 seconds. However, please do not clear the CMOS right after you update the BIOS. If you need to clear the CMOS when you just finish updating the BIOS, you must boot up the system first, and then shut it down before you do the clear-CMOS action. Please be noted that the password, date, time, and user default profile will be cleared only if the CMOS battery is removed.

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

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

System Panel Header
(9-pin PANEL1)
(see p.5, No. 10)

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

- **PWRBTN (Power Switch):** Connect to the power switch on the chassis front panel. You may configure the way to turn off your system using the power switch.
- **RESET (Reset Switch):** Connect to the reset switch on the chassis front panel. Press the reset switch to restart the computer if the computer freezes and fails to perform a normal restart.
- **PLED (System Power LED):** Connect to the power status indicator on the chassis front panel. The LED is on when the system is operating. The LED keeps blinking when the system is in S1/S3 sleep state. The LED is off when the system is in S4 sleep state or powered off (S5).
- **HDLED (Hard Drive Activity LED):** Connect to the hard drive activity LED on the chassis front panel. The LED is on when the hard drive is reading or writing data.

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

Chassis Intrusion and Speaker Header
(7-pin SPK_CI1)
(see p.5, No. 9)

Please connect the chassis intrusion and the chassis speaker to this header.
Serial ATA3 Connectors
(SATA3_1: see p.5, No. 6)
(SATA3_2: see p.5, No. 7)

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

USB 2.0 Headers
(4-pin USB6) (see p.5, No. 13)

(9-pin USB_2_3) (see p.5, No. 14)
(9-pin USB_4_5) (see p.5, No. 12)

Besides two USB 2.0 ports on the I/O panel, there are three headers on this motherboard.

USB 3.0 Header
(19-pin USB3_2_3) (see p.5, No. 8)

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

Front Panel Audio Header
(9-pin HD_AUDIO1) (see p.5, No. 19)

This header is for connecting audio devices to the front audio panel.
1. High Definition Audio supports Jack Sensing, but the panel wire on the chassis must support HDA to function correctly. Please follow the instructions in our manual and chassis manual to install your system.

2. If you use an AC’97 audio panel, please install it to the front panel audio header by the steps below:
   A. Connect Mic_IN (MIC) to MIC2_L.
   B. Connect Audio_R (RIN) to OUT2_R and Audio_L (LIN) to OUT2_L.
   C. Connect Ground (GND) to Ground (GND).
   D. MIC_RET and OUT_RET are for the HD audio panel only. You don’t need to connect them for the AC’97 audio panel.
   E. To activate the front mic, go to the "FrontMic" Tab in the Realtek Control panel and adjust "Recording Volume".

---

Chassis Fan Connector (3-pin CHA_FAN1)  
(see p.5, No. 11)

CPU Fan Connector (3-pin CPU_FAN1)  
(see p.5, No. 2)

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

Serial Port Header (9-pin COM1)  
(see p.5, No. 16)  
(9-pin COM2)  
(see p.5, No. 17)

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

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

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

These two COM headers support serial port modules.
TPM Header  
(17-pin TPMS1)  
(see p.5, No. 18)  
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.5, No. 15)  
This is an interface for print port cable that allows convenient connection of printer devices.

BIOS_PH Connector  
(9-pin BIOS_PH)  
(see p.5, No. 1)  
This header is for writing the BIOS into flash ROM when the BIOS ROM corrupts and the system cannot boot up.  
*This header is for factory engineering purpose.
Chapter 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 menu.

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.

To improve Windows 7 compatibility, please download and install the following hot fix provided by Microsoft. "KB2720599": http://support.microsoft.com/kb/2720599/en-us
3.2 ASRock Live Update & APP Shop

The ASRock Live Update & APP Shop is an online store for purchasing and downloading software applications for your ASRock computer. You can quickly and easily install various apps and support utilities, such as USB Key, XFast LAN, XFast RAM and more. With ASRock APP Shop, you can optimize your system and keep your motherboard up to date simply with a few clicks.

Double-click on your desktop to access ASRock Live Update & APP Shop utility.

*You need to be connected to the Internet to download apps from the ASRock Live Update & APP Shop.

3.2.1 UI Overview

Category Panel: The category panel contains several category tabs or buttons that when selected the information panel below displays the relative information.

Information Panel: The information panel in the center displays data about the currently selected category and allows users to perform job-related tasks.

Hot News: The hot news section displays the various latest news. Click on the image to visit the website of the selected news and know more.
3.2.2 Apps

When the "Apps" tab is selected, you will see all the available apps on screen for you to download.

Installing an App

**Step 1**

Find the app you want to install.

The most recommended app appears on the left side of the screen. The other various apps are shown on the right. Please scroll up and down to see more apps listed.

You can check the price of the app and whether you have already installed it or not.

- The red icon displays the price or "Free" if the app is free of charge.
- The green "Installed" icon means the app is installed on your computer.

**Step 2**

Click on the app icon to see more details about the selected app.
Step 3

If you want to install the app, click on the red icon to start downloading.

![App installation](image)

Step 4

When installation completes, you can find the green "Installed" icon appears on the upper right corner.

![App installed](image)

To uninstall it, simply click on the trash can icon.

*The trash icon may not appear for certain apps.*
Upgrading an App

You can only upgrade the apps you have already installed. When there is an available new version for your app, you will find the mark of "New Version" appears below the installed app icon.

![App Shop](image)

**Step 1**

Click on the app icon to see more details.

**Step 2**

Click on the yellow icon to start upgrading.
3.2.3 BIOS & Drivers

Installing BIOS or Drivers

When the "BIOS & Drivers" tab is selected, you will see a list of recommended or critical updates for the BIOS or drivers. Please update them all soon.

**Step 1**

Please check the item information before update. Click on ![details icon] to see more details.

**Step 2**

Click to select one or more items you want to update.

**Step 3**

Click Update to start the update process.
3.2.4 Setting

In the "Setting" page, you can change the language, select the server location, and determine if you want to automatically run the ASRock Live Update & APP Shop on Windows startup.
Chapter 4 UEFI SETUP UTILITY

4.1 Introduction

This section explains how to use the UEFI SETUP UTILITY to configure your system. You may run the UEFI SETUP UTILITY by pressing <F2> or <Del> right after you power on the computer, otherwise, the Power-On-Self-Test (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
- **Advanced** For advanced system configurations
- **Tool** Useful tools
- **H/W Monitor** Displays current hardware status
- **Security** For security settings
- **Boot** For configuring boot settings and boot priority
- **Exit** Exit the current screen or the UEFI Setup Utility
4.1.2 Navigation Keys

Use <←→> key or <↕> key to choose among the selections on the menu bar, and use <↑> key or <↓> key to move the cursor up or down to select items, then press <Enter> to get into the sub screen. You can also use the mouse to click your required item.

Please check the following table for the descriptions of each navigation key.

<table>
<thead>
<tr>
<th>Navigation Key(s)</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>+ / -</td>
<td>To change option for the selected items</td>
</tr>
<tr>
<td>&lt;Tab&gt;</td>
<td>Switch to next function</td>
</tr>
<tr>
<td>&lt;PGUP&gt;</td>
<td>Go to the previous page</td>
</tr>
<tr>
<td>&lt;PGDN&gt;</td>
<td>Go to the next page</td>
</tr>
<tr>
<td>&lt;HOME&gt;</td>
<td>Go to the top of the screen</td>
</tr>
<tr>
<td>&lt;END&gt;</td>
<td>Go to the bottom of the screen</td>
</tr>
<tr>
<td>&lt;F1&gt;</td>
<td>To display the General Help Screen</td>
</tr>
<tr>
<td>&lt;F7&gt;</td>
<td>Discard changes and exit the SETUP UTILITY</td>
</tr>
<tr>
<td>&lt;F9&gt;</td>
<td>Load optimal default values for all the settings</td>
</tr>
<tr>
<td>&lt;F10&gt;</td>
<td>Save changes and exit the SETUP UTILITY</td>
</tr>
<tr>
<td>&lt;F12&gt;</td>
<td>Print screen</td>
</tr>
<tr>
<td>&lt;ESC&gt;</td>
<td>Jump to the Exit Screen or exit the current screen</td>
</tr>
</tbody>
</table>
4.2 Main Screen

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

J3455M:

![Main Screen Image]

J3355M:
4.3 Advanced Screen

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

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

Intel SpeedStep Technology
Intel SpeedStep technology allows processors to switch between multiple frequencies and voltage points for better power saving and heat dissipation.

CPU C States Support
Enable CPU C States Support for power saving. It is recommended to keep C1, C6, C7, C8, C9 and C10 all enabled for better power saving.

Enhanced Halt State (C1E)
Enable Enhanced Halt State (C1E) for lower power consumption.

Intel Virtualization Technology
Intel Virtualization Technology allows a platform to run multiple operating systems and applications in independent partitions, so that one computer system can function as multiple virtual systems.

Power Gear
Toggle between three operational modes (Eco, Normal and Sport) to maximize performance or conserve energy.
Eco Mode: Reduces your computer’s performance and saves energy.
Normal Mode: Balance performance with power consumption.
Sport Mode: Use more power to achieve the highest performance.
4.3.2 Chipset Configuration

**DRAM Frequency**

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

**DRAM Voltage (1.50V)**

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

**Primary Graphics Adapter**

Select a primary VGA.

*To ensure better graphics compatibility, the default is set to [Onboard] (boot from onboard VGA).

**Share Memory**

Configure the size of memory that is allocated to the integrated graphics processor when the system boots up.

**Onboard HD Audio**

Enable/disable onboard HD audio. Set to Auto to enable onboard HD audio and automatically disable it when a sound card is installed.

**Front Panel**

Enable/disable front panel HD audio.
Onboard LAN
Enable or disable the onboard network interface controller.

PCIE1 Link Speed
Select the link speed for PCIE1.

PCIE2 Link Speed
Select the link speed for PCIE2.

PCIE3 Link Speed
Select the link speed for PCIE3.

Deep S5
Configure deep sleep mode for power saving when the computer is shut down.

Restore on AC/Power Loss
Select the power state after a power failure. If [Power Off] is selected, the power will remain off when the power recovers. If [Power On] is selected, the system will start to boot up when the power recovers.

Good Night LED
By enabling Good Night LED, the Power LEDs will be switched off when the system is on. It will also automatically switch off the Power and Keyboard LEDs when the system enters into Standby/Hibernation mode.
4.3.3 Storage Configuration

SATA Controller(s)
Enable/disable the SATA controllers.

SATA Mode Selection
AHCI: Supports new features that improve performance.

AHCI (Advanced Host Controller Interface) supports NCQ and other new features that will improve SATA disk performance.

SATA Aggressive Link Power Management
SATA Aggressive Link Power Management allows SATA devices to enter a low power state during periods of inactivity to save power. It is only supported by AHCI mode.

Hard Disk S.M.A.R.T.
S.M.A.R.T stands for Self-Monitoring, Analysis, and Reporting Technology. It is a monitoring system for computer hard disk drives to detect and report on various indicators of reliability.
4.3.4 Super IO Configuration

Serial Port 1
Enable or disable the Serial port 1.

Serial Port Address
Select the address of the Serial port.

Serial Port 2
Enable or disable the Serial port 2.

Serial Port Address
Select the address of the Serial port.

Parallel Port
Enable or disable the Parallel port.

Change Settings
Select the address of the Parallel port.

Device Mode
Select the device mode according to your connected device.
4.3.5 ACPI Configuration

Suspend to RAM
It is recommended to select auto for ACPI S3 power saving.

ACPI HPET Table
Enable the High Precision Event Timer for better performance and to pass WHQL tests.

PS/2 Keyboard Power On
Allow the system to be waked up by a PS/2 Keyboard.

PCIE Device Power On
Allow the system to be waked up by a PCIE device and enable wake on LAN.

Ring-In Power On
Allow the system to be waked up by onboard COM port modem Ring-In signals.

RTC Alarm Power On
Allow the system to be waked up by the real time clock alarm. Set it to By OS to let it be handled by your operating system.
USB Keyboard/Remote Power On
Allow the system to be waked up by an USB keyboard or remote controller.

USB Mouse Power On
Allow the system to be waked up by an USB mouse.
4.3.6 USB Configuration

Legacy USB Support
Enable Legacy USB Support. AUTO option disables legacy support if no USB devices are connected. DISABLE option will keep USB devices available only for EFI applications.
4.3.7 Trusted Computing

Security Device Support
Enable to activate Trusted Platform Module (TPM) security for your hard disk drives.
4.4 Tools

**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.

**Instant Flash**
Save UEFI files in your USB storage device and run Instant Flash to update your UEFI.

**Internet Flash - DHCP (Auto IP), Auto**
ASRock Internet Flash downloads and updates the latest UEFI firmware version from our servers for you. Please setup network configuration before using Internet Flash.
*For BIOS backup and recovery purpose, it is recommended to plug in your USB pen drive before using this function."
Network Configuration
Use this to configure internet connection settings for Internet Flash.

Internet Setting
Enable or disable sound effects in the setup utility.

UEFI Download Server
Select a server to download the UEFI firmware.
4.5 Hardware Health Event Monitoring Screen

This section allows you to monitor the status of the hardware on your system, including the parameters of the CPU temperature, motherboard temperature, fan speed and voltage.

**CPU Fan 1 Setting**

This allows you to set CPU fan 1’s speed. Configuration options: [Full On] and [Automatic Mode]. The default value is [Full On].

**Chassis Fan 1 Setting**

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

**Case Open Feature**

Enable or disable Case Open Feature to detect whether the chassis cover has been removed.
4.6 Security Screen

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

Supervisor Password
Set or change the password for the administrator account. Only the administrator has authority to change the settings in the UEFI Setup Utility. Leave it blank and press enter to remove the password.

User Password
Set or change the password for the user account. Users are unable to change the settings in the UEFI Setup Utility. Leave it blank and press enter to remove the password.

Secure Boot
Enable to support Windows 8.1 Secure Boot.

Intel(R) Platform Trust Technology
Enable/disable Intel PTT in ME. Disable this option to use discrete TPM Module.
4.7 Boot Screen

This section displays 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. In fast mode you may not boot from an USB storage device. Ultra Fast mode is only supported by Windows 8.1 and the VBIOS must support UEFI GOP if you are using an external graphics card. Please notice that Ultra Fast mode will boot so fast that the only way to enter this UEFI Setup Utility is to Clear CMOS or run the Restart to UEFI utility in Windows.

Boot From Onboard LAN
Allow the system to boot from the onboard LAN.

Setup Prompt Timeout
Configure the number of seconds to wait for the setup hot key.

Bootup Num-Lock
Select whether Num Lock should be turned on or off when the system boots up.

Boot Beep
Select whether the Boot Beep should be turned on or off when the system boots up. Please note that a buzzer is needed.
Full Screen Logo
Enable to display the boot logo or disable to show normal POST messages.

AddOn ROM Display
Enable AddOn ROM Display to see the AddOn ROM messages or configure the AddOn ROM if you've enabled Full Screen Logo. Disable for faster boot speed.

Boot Failure Guard Message
If the computer fails to boot for a number of times the system automatically restores the default settings.
CSM (Compatibility Support Module)

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 64-bit and all of your devices support UEFI, you may also disable CSM for faster boot speed.

*The default of this option is set to [Disabled] (UEFI mode). You can change the Boot Mode setting from UEFI mode to Legacy BIOS mode by set CSM to [Enabled].

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.

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.

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.
4.8 Exit Screen

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

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

Discard Changes
When you select this option the following message, “Discard changes?” will pop out. Select [OK] to discard all changes.

Load UEFI Defaults
Load UEFI default values for all options. The F9 key can be used for this operation.

Launch EFI Shell from filesystem device
Copy shellx64.efi to the root directory to launch EFI Shell.
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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