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GIGABYTE GA-H170-Gaming 3

GIGABYTE GA-H170-Gaming 3 Motherboard User Manual

LGA1151 Intel H170 ATX DDR4 Motherboard

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1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your GIGABYTE GA-H170-Gaming 3 motherboard. Designed for 6th Generation Intel Core Processors, this ATX motherboard features an LGA1151 socket, DDR4 memory support, and advanced connectivity options, making it suitable for various computing needs.

2. KEY FEATURES

- LGA1151 socket, supporting 6th Generation Intel Core Processors.
- Dual Channel DDR4 memory support across 4 DIMM slots.
- 2-Way Graphics Support with Ultra Durable Metal Shielding over the PCIe Slots.
- Dual PCIe Gen3 x4 M.2 Connectors offering up to 32Gb/s data transfer speeds (PCIe NVMe & SATA SSD support).
- 2 SATA Express Connectors for up to 16Gb/s data transfer.
- 115dB SNR HD Audio with Built-in Rear Audio Amplifier.

3. PACKAGE CONTENTS

Upon opening the package, verify the presence of the following items:

- GIGABYTE GA-H170-Gaming 3 Motherboard
- I/O Shield
- SATA Data Cables
- Driver Installation Disc
- User Manual

If any items are missing or damaged, please contact your retailer or GIGABYTE customer support.

4. MOTHERBOARD LAYOUT

Familiarize yourself with the key components and connectors on your motherboard.

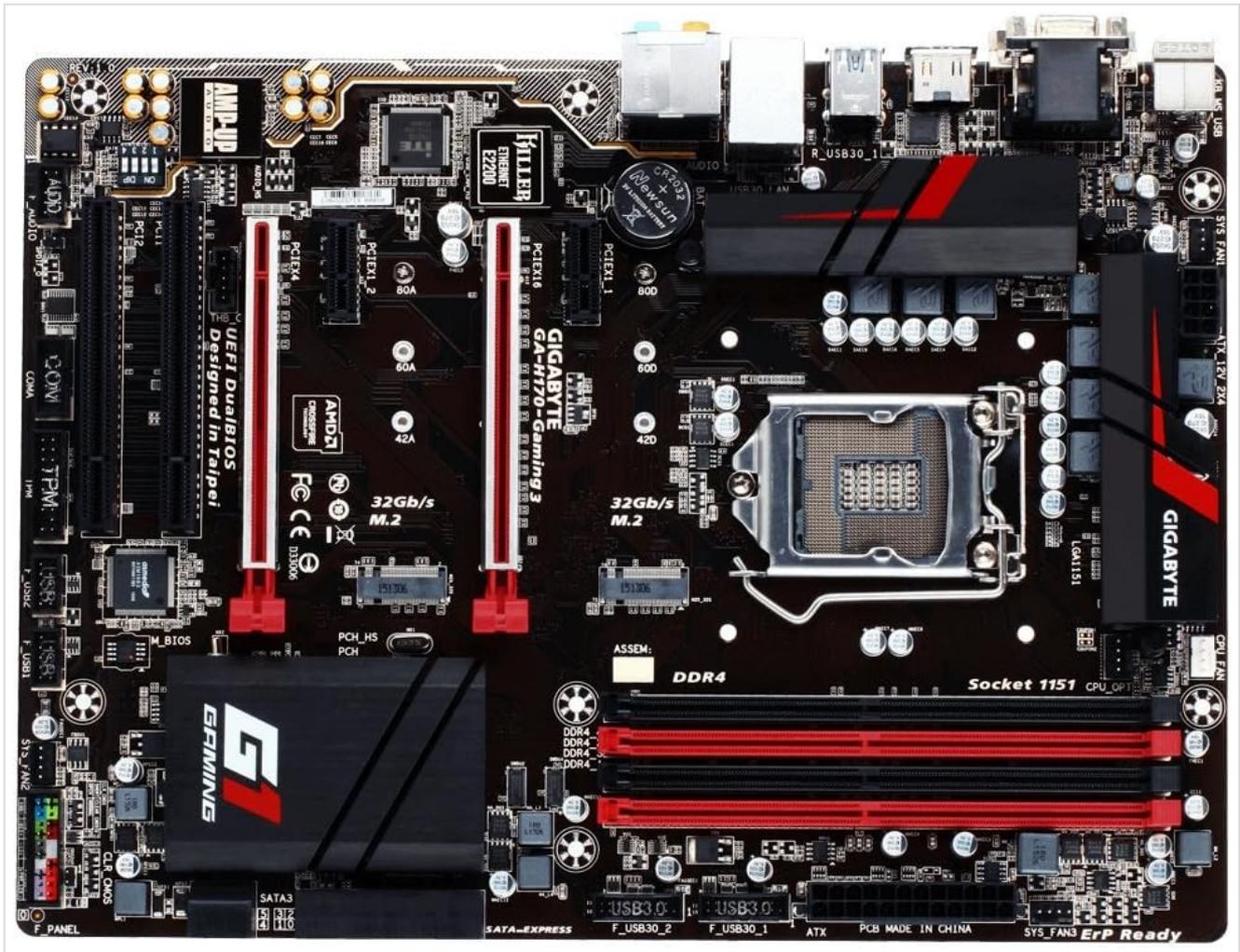


Figure 4.1: Overall view of the GIGABYTE GA-H170-Gaming 3 motherboard, highlighting the LGA1151 CPU socket, four DDR4 DIMM slots, PCIe expansion slots, M.2 slots, and SATA ports.

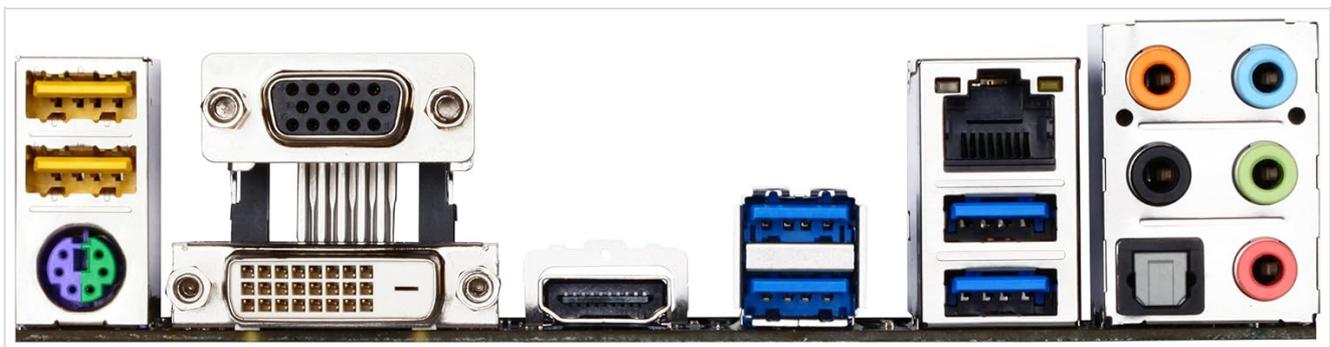


Figure 4.2: Rear I/O panel connectors, including USB ports, video outputs (VGA, DVI, HDMI), Ethernet port, and audio jacks.

5. SETUP AND INSTALLATION

5.1. CPU Installation

Carefully open the CPU socket lever. Align the triangular mark on your Intel LGA1151 CPU with the corresponding mark on the socket. Gently place the CPU into the socket without forcing it. Close the lever to secure the CPU in place. Ensure the CPU is seated correctly before closing the lever.

5.2. Memory (RAM) Installation

Insert DDR4 memory modules into the DIMM slots. Ensure the module's notch aligns with the slot's key. Press down firmly on both ends of the memory module until the clips on the slot lock into place. For optimal performance, refer to

the motherboard diagram in the full manual for proper dual-channel configuration.

5.3. Storage Device Installation

Connect SATA data cables from your storage devices (Hard Disk Drives, Solid State Drives) to the SATA ports on the motherboard. For M.2 SSDs, insert the M.2 module into the designated slot and secure it with the provided screw. Ensure all cables are properly routed and secured.

5.4. Expansion Card Installation

Insert PCIe expansion cards, such as graphics cards or sound cards, into the appropriate PCIe slots. Ensure the card is fully seated in the slot and secured with a screw to the chassis. Connect any necessary auxiliary power cables to the expansion card.

5.5. Power Connections

Connect the 24-pin ATX main power connector and the 8-pin ATX 12V CPU power connector from your power supply unit (PSU) to the corresponding ports on the motherboard. Ensure these connections are firm and fully seated.

5.6. Front Panel Connections

Connect the front panel headers (power button, reset button, HDD LED, power LED, front USB, front audio) to the corresponding pins on the motherboard. Refer to the detailed motherboard manual for precise pin assignments and polarity.

6. OPERATING INSTRUCTIONS

6.1. BIOS/UEFI Setup

To access the UEFI BIOS, press the 'Del' key repeatedly during system startup. The GIGABYTE UEFI Dual BIOS provides advanced configuration options for system performance, boot order, hardware monitoring, and security settings. Navigate using the keyboard or mouse.

6.2. Driver Installation

After installing your operating system, install necessary drivers from the included driver disc. Alternatively, download the latest versions from the official GIGABYTE website for optimal system performance and compatibility. This includes chipset, audio, LAN, and graphics drivers.

6.3. Operating System Compatibility

This motherboard officially supports Windows 7 and Windows 10 operating systems. For Linux users, ensure your kernel and ALSA versions are up-to-date for full hardware compatibility, particularly for audio functionality, as some older versions may require specific configurations.

7. MAINTENANCE

7.1. System Cleaning

Regularly clean dust from the motherboard and other internal components using compressed air. Ensure the system is powered off and unplugged from the wall outlet before performing any cleaning. Avoid using liquid cleaners directly on components.

7.2. BIOS Updates

Periodically check the GIGABYTE website for BIOS updates. BIOS updates can improve system stability, enhance

compatibility with new hardware, and optimize performance. Always follow the provided instructions carefully when updating the BIOS to prevent system damage.

7.3. Driver Updates

Keep all system drivers updated to ensure optimal performance, security, and compatibility with new software and hardware. Visit the GIGABYTE support website for the latest driver releases for your motherboard model.

8. TROUBLESHOOTING

8.1. No Power / No Boot

Verify all power connections (24-pin ATX, 8-pin CPU) are securely seated on the motherboard and from the power supply. Check the power supply unit (PSU) functionality. Ensure the CPU and RAM modules are correctly installed and seated.

8.2. No Display

Confirm the graphics card is properly seated in its PCIe slot and connected to the power supply (if required). Check monitor connections and ensure the correct input source is selected on the monitor. Test with integrated graphics if available.

8.3. Audio Issues

Ensure audio drivers are correctly installed and updated. Verify speaker/headphone connections to the correct audio jacks on the rear I/O panel. If using onboard audio, check BIOS settings to ensure it is enabled.

8.4. Network Connectivity Problems

Check the Ethernet cable connection to both the motherboard and your network device (router/modem). Ensure LAN drivers are installed and updated. Verify network adapter settings in the operating system. If issues persist, consider testing with a different cable or network port.

8.5. System Instability / BSODs

System instability or Blue Screens of Death (BSODs) can be caused by faulty RAM, overheating components, or driver conflicts. Test memory modules individually. Monitor CPU and GPU temperatures using monitoring software. Ensure all drivers are up-to-date and compatible with your operating system.

9. SPECIFICATIONS

Feature	Specification
Brand	GIGABYTE
Model Name	GA-H170-Gaming 3
CPU Socket	LGA 1151
Compatible Processors	Intel Core (6th Generation)
Chipset Type	Intel H170
RAM Memory Technology	DDR4
Memory Clock Speed	2133 MHz

Memory Storage Capacity	64 GB (Max)
Number of USB 2.0 Ports	2 (Rear)
Platform	Windows 8 (Compatible with Windows 7/10)
Item Weight	2.8 pounds
Product Dimensions	13 x 11 x 3 inches

10. WARRANTY AND SUPPORT

For detailed warranty information, technical assistance, and customer support, please visit the official GIGABYTE website. It is recommended to register your product and keep your purchase receipt for any warranty claims or service requests.

GIGABYTE provides comprehensive support resources, including FAQs, driver downloads, and contact information for technical inquiries.

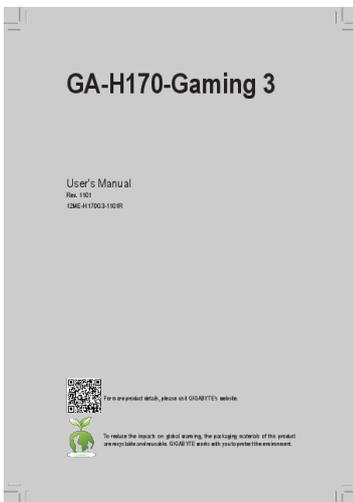
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Related Documents - GA-H170-Gaming 3

 <p>GA-H110M-H</p> <p>使用手冊</p> <p>USER MANUAL</p>	<p>GIGABYTE GA-H110M-H Motherboard User Manual</p> <p>Comprehensive user manual for the GIGABYTE GA-H110M-H motherboard, covering hardware installation, BIOS setup, driver installation, specifications, and regulatory information.</p>
 <p>GA-Z170X-Gaming 3</p> <p>User's Manual</p> <p>USER MANUAL</p>	<p>GIGABYTE GA-Z170X-Gaming 3 User's Manual</p> <p>Comprehensive user's manual for the GIGABYTE GA-Z170X-Gaming 3 motherboard, covering hardware installation, BIOS setup, product specifications, and troubleshooting.</p>
 <p>H310M H</p> <p>User's Manual</p> <p>USER MANUAL</p>	<p>GIGABYTE H310M H Motherboard User Manual - Installation and BIOS Guide</p> <p>Comprehensive user manual for the GIGABYTE H310M H motherboard. Covers hardware installation, CPU and memory setup, BIOS configuration, specifications, and regulatory information.</p>

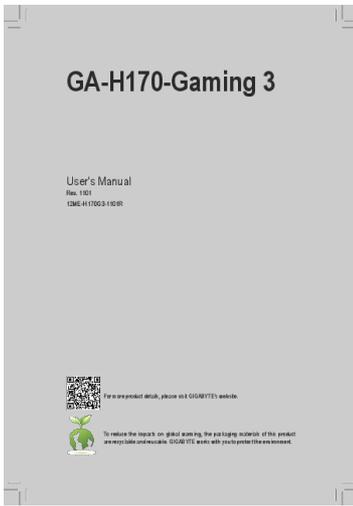
 <p>GA-Z170X-Gaming 7</p> <p>User's Manual Rev. 1001</p>	<p>GIGABYTE GA-Z170X-Gaming 7 Motherboard User Manual</p> <p>Comprehensive user manual for the GIGABYTE GA-Z170X-Gaming 7 motherboard, covering installation, BIOS setup, driver installation, unique features, troubleshooting, and regulatory information.</p>
 <p>GA-G41MT-USB3 GA-G41MT-D3V</p> <p>User's Manual Rev. 1001</p>	<p>GIGABYTE GA-G41MT-USB3 / GA-G41MT-D3V Motherboard User's Manual</p> <p>Comprehensive user's manual for GIGABYTE GA-G41MT-USB3 and GA-G41MT-D3V LGA775 socket motherboards. Covers hardware installation, detailed BIOS setup options, and driver installation procedures.</p>
 <p>B760M D3H DDR4</p> <p>User's Manual Rev. 1001</p>	<p>GIGABYTE B760M D3H DDR4 Motherboard User's Manual</p> <p>Comprehensive user's manual for the GIGABYTE B760M D3H DDR4 motherboard, detailing hardware installation, BIOS setup, driver installation, product specifications, and internal/external connectors for Intel 13th and 12th Gen processors.</p>

Documents - GIGABYTE – GA-H170-Gaming 3



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GA H170 Gaming 3 Gigabyte Prior to installation carefully read the user s manual and follow these procedures make sure chassis is suitable for motherboard mb ga h170 gaming3 v1 1 e gigabyte FileList Manual

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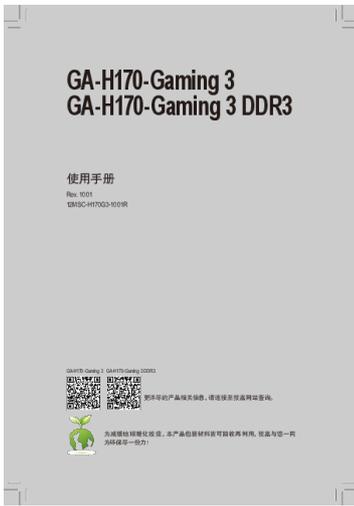


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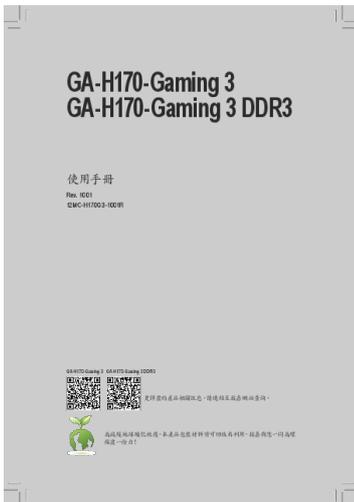
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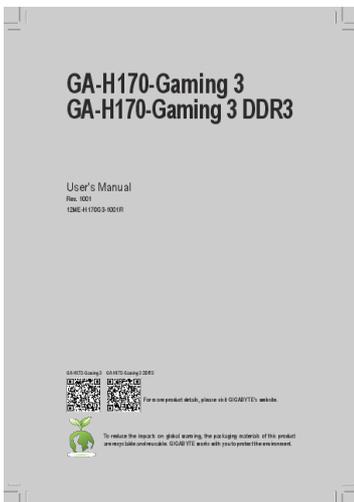
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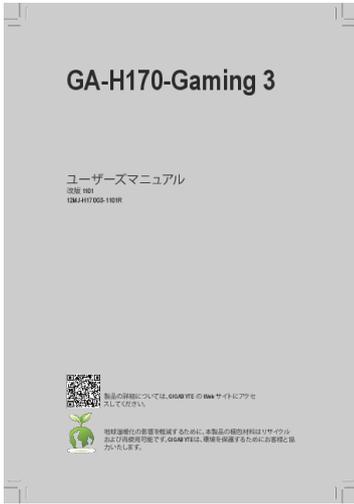
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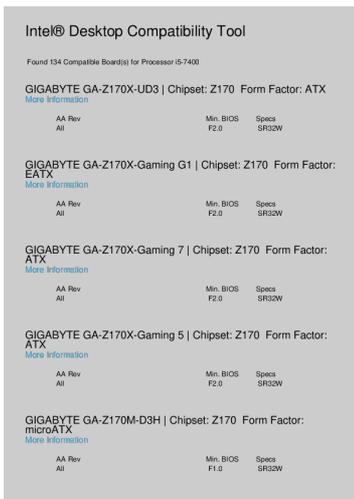


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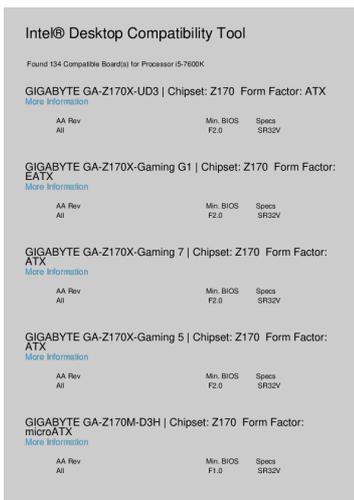


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[List of compatible boards](#)

ASRock motherboards

ASRock Z100 Combo	Any
ASRock Z100 FunKit 1.1	Any
ASRock Z100 FunKit D3	F1.40
ASRock Z100A1 Chipset	Any
ASRock Z100A1.1	Any
ASRock Z100A1.2	Any
ASRock Z100A1.3	Any
ASRock Z100A1.4	Any
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ASRock Z100A1.97	Any
ASRock Z100A1.98	Any
ASRock Z100A1.99	Any
ASRock Z100A1.100	Any

[Motherboard Compatibility List](#)

A comprehensive list of compatible motherboards from various manufacturers including ASRock, ASUS, Biostar, ECS, Gigabyte, Jetway, and MSI, along with their respective model numbers and compatible BIOS versions or firmware.

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Intel® Desktop Compatibility Tool

Found 113 Compatible Board(s) for Processor i5-7400

GIGABYTE GA-Z170X-UD3 | Chipset: Z170 Form Factor: ATX
[More Information](#)

AA Rev	Min. BIOS	Specs
All	F2.0	SR32W

GIGABYTE GA-Z170X-Gaming G1 | Chipset: Z170 Form Factor: EATX
[More Information](#)

AA Rev	Min. BIOS	Specs
All	F2.0	SR32W

GIGABYTE GA-Z170X-Gaming 7 | Chipset: Z170 Form Factor: ATX
[More Information](#)

AA Rev	Min. BIOS	Specs
All	F2.0	SR32W

GIGABYTE GA-Z170X-Gaming 5 | Chipset: Z170 Form Factor: ATX
[More Information](#)

AA Rev	Min. BIOS	Specs
All	F2.0	SR32W

GIGABYTE GA-Z170M-D3H | Chipset: Z170 Form Factor: microATX
[More Information](#)

AA Rev	Min. BIOS	Specs
All	F1.0	SR32W

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Intel® Desktop Compatibility Tool

Found 134 Compatible Board(s) for Processor i7-7700K

GIGABYTE GA-Z170X-UD3 | Chipset: Z170 Form Factor: ATX
[More Information](#)

AA Rev	Min. BIOS	Specs
All	F2.0	SR33A

GIGABYTE GA-Z170X-Gaming G1 | Chipset: Z170 Form Factor: EATX
[More Information](#)

AA Rev	Min. BIOS	Specs
All	F2.0	SR33A

GIGABYTE GA-Z170X-Gaming 7 | Chipset: Z170 Form Factor: ATX
[More Information](#)

AA Rev	Min. BIOS	Specs
All	F2.0	SR33A

GIGABYTE GA-Z170X-Gaming 5 | Chipset: Z170 Form Factor: ATX
[More Information](#)

AA Rev	Min. BIOS	Specs
All	F2.0	SR33A

GIGABYTE GA-Z170M-D3H | Chipset: Z170 Form Factor: microATX
[More Information](#)

AA Rev	Min. BIOS	Specs
All	F1.0	SR33A

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Intel Desktop Compatibility Tool Found 134 Compatible Board s for Processor i7-7700K GIGABYTE GA- ... Chipset: H170 Form Factor: ATX More Information AA Rev All Min. BIOS F2.0 Specs SR33A GIGABYTE GA-H170-Gaming 3 DDR3 Chipset: H170 Form Factor: ATX More Information AA Rev All Min. BIOS F1.0 ...

lang:i-klngon score:14 filesize: 48.92 K page_count: 24 document date: 2018-05-10

Intel® Desktop Compatibility Tool

Found 134 Compatible Board(s) for Processor i7-7700K

GIGABYTE GA-Z170X-UD3 | Chipset: Z170 Form Factor: ATX
[More Information](#)

AA Rev All	Min. BIOS F2.0	Specs SR33A
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GIGABYTE GA-Z170X-Gaming G1 | Chipset: Z170 Form Factor: ATX
[More Information](#)

AA Rev All	Min. BIOS F2.0	Specs SR33A
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GIGABYTE GA-Z170X-Gaming 7 | Chipset: Z170 Form Factor: ATX
[More Information](#)

AA Rev All	Min. BIOS F2.0	Specs SR33A
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GIGABYTE GA-Z170X-Gaming 5 | Chipset: Z170 Form Factor: ATX
[More Information](#)

AA Rev All	Min. BIOS F2.0	Specs SR33A
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GIGABYTE GA-Z170M-D3H | Chipset: Z170 Form Factor: microATX
[More Information](#)

AA Rev All	Min. BIOS F1.0	Specs SR33A
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Product Documentation Intel Core i7 7700K Desktop Processor 4 Cores up to 5 GHz Unlocked LGA 1151 100 200 Series 91W Electronics 514ZCaLGz5L m media amazon images I |||

Intel Desktop Compatibility Tool Found 134 Compatible Board s for Processor i7-7700K GIGABYTE GA- ... Chipset: H170 Form Factor: ATX More Information AA Rev All Min. BIOS F2.0 Specs SR33A GIGABYTE GA-H170-Gaming 3 DDR3 Chipset: H170 Form Factor: ATX More Information AA Rev All Min. BIOS F1.0 ...

lang:i-klngon **score:14** filesize: 48.92 K page_count: 24 document date: 2018-12-21

Intel® Desktop Compatibility Tool

Found 192 Compatible Board(s) for Processor i7-6700

SUPERMICRO X11SSZ-QF | Chipset: Q170 Form Factor: microATX
[More Information](#)

AA Rev X11SSZ-QF	Min. BIOS R1.0	Specs SR2L2
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SUPERMICRO X11SSV-Q | Chipset: Q170 Form Factor: Mini-ITX
[More Information](#)

AA Rev X11SSV-Q	Min. BIOS R1.0	Specs SR2L2
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SUPERMICRO X11SSQ | Chipset: Q170 Form Factor: microATX
[More Information](#)

AA Rev X11SSQ	Min. BIOS R1.0	Specs SR2L2
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SUPERMICRO C7Z170-SQ | Chipset: Z170 Form Factor: ATX
[More Information](#)

AA Rev C7Z170-SQ	Min. BIOS R1.0a	Specs SR2L2
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SUPERMICRO C7Z170-OCE | Chipset: Z170 Form Factor: ATX
[More Information](#)

AA Rev C7Z170-OCE	Min. BIOS R1.0	Specs SR2L2
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Intel® Desktop Compatibility Tool Z170A GAMING PRO 1 2 SR2L2 MSI M5 Chipset Z170 Form Factor ATX More Information AA Rev Min BIOS Specs 61LD5a j2L images na ssl amazon I

Intel Desktop Compatibility Tool Found 192 Compatible Board s for Processor i7-6700 SUPERMICRO X1 ... Chipset: H170 Form Factor: ATX More Information AA Rev All Min. BIOS F2.0 Specs SR2L2 GIGABYTE GA-H170-Gaming 3 DDR3 Chipset: H170 Form Factor: ATX More Information AA Rev All Min. BIOS F1.0 ...

lang:tl **score:13** filesize: 73.68 K page_count: 34 document date: 2017-06-15

Intel® Desktop Compatibility Tool

Found 197 Compatible Board(s) for Processor i5-6600K

SUPERMICRO X11SSZ-QF | Chipset: Q170 Form Factor: microATX
[More Information](#)

AA Rev X11SSZ-QF	Min. BIOS R1.0	Specs SR2L4
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SUPERMICRO X11SSV-Q | Chipset: Q170 Form Factor: Mini-ITX
[More Information](#)

AA Rev X11SSV-Q	Min. BIOS R1.0	Specs SR2L4
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SUPERMICRO X11SSQ | Chipset: Q170 Form Factor: microATX
[More Information](#)

AA Rev X11SSQ	Min. BIOS R1.0	Specs SR2L4
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SUPERMICRO C7Z170-SQ | Chipset: Z170 Form Factor: ATX
[More Information](#)

AA Rev C7Z170-SQ	Min. BIOS R1.0a	Specs SR2L4
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SUPERMICRO C7Z170-OCE | Chipset: Z170 Form Factor: ATX
[More Information](#)

AA Rev C7Z170-OCE	Min. BIOS R1.0	Specs SR2L4
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Intel Desktop Compatibility Tool Found 197 Compatible Board s for Processor i5-6600K SUPERMICRO X ... Chipset: H170 Form Factor: ATX More Information AA Rev All Min. BIOS F2.0 Specs SR2L4 GIGABYTE GA-H170-Gaming 3 DDR3 Chipset: H170 Form Factor: ATX More Information AA Rev All Min. BIOS F1.0 ...

lang:tl **score:13** filesize: 74.38 K page_count: 35 document date: 2018-01-17

Intel® Desktop Compatibility Tool

Found 215 Compatible Board(s) for Processor i7-6700

SUPERMICRO X11SSZ-QF | Chipset: Q170 Form Factor: microATX

[More Information](#)

AA Rev	Min. BIOS	Specs
X11SSZ-QF	R1.0	SR2L2

SUPERMICRO X11SSV-Q | Chipset: Q170 Form Factor: Mini-ITX

[More Information](#)

AA Rev	Min. BIOS	Specs
X11SSV-Q	R1.0	SR2L2

SUPERMICRO X11SSQ | Chipset: Q170 Form Factor: microATX

[More Information](#)

AA Rev	Min. BIOS	Specs
X11SSQ	R1.0	SR2L2

SUPERMICRO C7Z170-SQ | Chipset: Z170 Form Factor: ATX

[More Information](#)

AA Rev	Min. BIOS	Specs
C7Z170-SQ	R1.0a	SR2L2

SUPERMICRO C7Z170-OCE | Chipset: Z170 Form Factor: ATX

[More Information](#)

AA Rev	Min. BIOS	Specs
C7Z170-OCE	R1.0	SR2L2

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Intel Desktop Compatibility Tool Found 215 Compatible Board s for Processor i7-6700

SUPERMICRO X1 ... Chipset: H170 Form Factor: ATX More Information AA Rev All

Min. BIOS F2.0 Specs SR2L2 GIGABYTE GA-H170-Gaming 3 DDR3 Chipset: H170

Form Factor: ATX More Information AA Rev All Min. BIOS F1.0 ...

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