AORUS MODEL S GAMING DESKTOP PC

(AMSI7N7I-21A1)

User's Manual

Rev. 1001



For more product details, please visit GIGABYTE's website.



To reduce the impacts on global warming, the packaging materials of this product are recyclable and reusable. GIGABYTE works with you to protect the environment.

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Documentation Classifications

In order to assist in the use of this product, GIGABYTE provides the following types of documentations:

- For guick set-up of the product, read the Quick Start Guide included with the product.
- For detailed product information, carefully read the User's Manual.

For product-related information, check on our website at: https://www.gigabyte.com

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Box Contents

- ☑ AORUS MODEL S GAMING DESKTOP PC
- Quick Start Guide
- Antennas
- Power cord

The box contents above are for reference only and the actual items shall depend on the product package you obtain. The box contents are subject to change without notice.

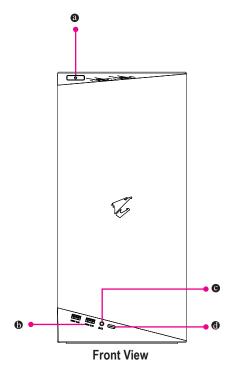
Chapter 1 Hardware Installation

1-1 Safety Information

- Before connecting to the power outlet, make sure that the voltage rating of the power cable is compatible with the power specification in the country where you are located.
- The power cord plug must be connected to a properly wired and grounded power outlet.
- Be sure that the power outlet you plug the power cord into is easily accessible and located
 as close to the equipment operator as possible. When you need to disconnect power to the
 equipment, be sure to unplug the power cord from the electrical outlet.
- Do not touch the plug with wet hands, otherwise easily cause electric shock.
- Protect the power cord from being tread upon or pinched, particularly at the plug.
- To avoid damage of internal component, do not place the product on a vibrating surface.
- Operating temperature: 5~35°C.
- Do not place the product near any heat sources such as electric radiators, heat registers, stoves or other devices (including amplifiers) that produce heat.
- Do not place the product in a confined space; make sure to use it in a well-ventilated place.
- The holes or openings on this product are for ventilation to ensure reliable operation of the product and to protect it from overheating. Do not cover or block the ventilation holes with any objects.
- Never push objects of any kind into this product through cabinet slots as they may touch
 dangerous voltage points or short-out parts that could result in a fire or electric shock. Never
 spill liquid of any kind onto or into the product.
- Do not use this product near water, drinks, or all types of liquids. Do not expose this apparatus
 to rain, liquid or moisture. Failure to do so may result in electric shock or damage. This product
 is not water proof or oil-proof.
- · Clean the equipment with a soft, dry cloth.
- The manufacturer specifies that the thumbscrews normally should be tightened with a screwdriver, use of thumbscrews is not considered to compromise the basic principles of safety associated with the Safety Standard.
- Warning! Danger of explosion if the battery is replaced with an incorrect model. Refer to the manufacturer's instruction manual to handle the used battery.
- Do not remove the casing of this product to avoid causing safety issues. Do not make mechanical
 or electrical modifications to the equipment to avoid causing safety issues.

1-2 Hardware Information

System Overview



Power Button

The power button allows users to turn on/off the computer.

6 USB 3.2 Gen 1 Port

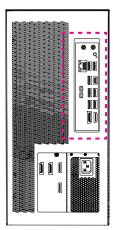
The USB 3.2 Gen 1 port supports the USB 3.2 Gen 1 specification and is compatible to the USB 2.0 specification. The maximum power output is 5V. Use this port for USB devices.

Audio/Microphone Jack

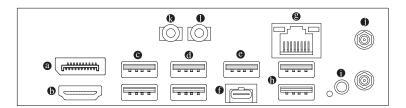
The line out/mic in jack.

O USB Type-C® Port

The reversible USB port supports the USB 3.2 Gen 2 specification and is compatible to the USB 3.2 Gen 1 and USB 2.0 specification. The maximum power output is 5V. Use this port for USB devices.



Back View-A



DisplayPort (Note 1)

DisplayPort delivers high quality digital imaging and audio, supporting bi-directional audio transmission. DisplayPort can support HDCP 2.3 content protection mechanisms. You can use this port to connect your DisplayPort-supported monitor. Note: The DisplayPort Technology can support a maximum resolution of 5120x2160@60 Hz but the actual resolutions supporte

6 HDMI Port

The HDMI port supports HDCP 2.3 and Dolby TrueHD and DTS HD Master Audio formats. It also supports up to 192KHz/24bit 7.1-channel LPCM audio output. You can use this port to connect your HDMI-supported monitor. The maximum supported resolution is 4096x2160@60 Hz, but the actual resolutions supported are dependent on the monitor being used.

After installing the DisplayPort/HDMI device, make sure to set the default sound playback device to DisplayPort/HDMI. (The item name may differ depending on your operating system.)

USB 3.2 Gen 1 Port

The USB 3.2 Gen 1 port supports the USB 3.2 Gen 1 specification and is compatible to the USB 2.0 specification. Use this port for USB devices.

USB 2.0/1.1 Port

The USB port supports the USB 2.0/1.1 specification. Use this port for USB devices.

USB 3.2 Gen 2 Type-A Port (Q-Flash Plus Port)

The USB 3.2 Gen 2 port supports the USB 3.2 Gen 2 specification and is compatible to the USB 3.2 Gen 1 and USB 2.0 specification. Use this port for USB devices. Before using Q-Flash Plus (Note 2), make sure to insert the USB flash drive into this port first.

• USB Type-C® Port

The reversible USB port supports the USB 3.2 Gen 2x2 specification and is compatible to the USB 3.2 Gen 2, USB 3.2 Gen 1, and USB 2.0 specifications. Use this port for USB devices.

RJ-45 LAN Port

The Gigabit Ethernet LAN port provides Internet connection at up to 2.5 Gbps data rate. The following describes the states of the LAN port LEDs.



Description
2.5 Gbps data rate
1 Gbps data rate
100 Mbps data rate

Activity LED:	
State	Description
Blinking	Data transmission or receiving is occurring
On	No data transmission or receiving is occurring

USB 3.2 Gen 2 Type-A Port (Red)

The USB 3.2 Gen 2 port supports the USB 3.2 Gen 2 specification and is compatible to the USB 3.2 Gen 1 and USB 2.0 specification. Use this port for USB devices.

Q-Flash Plus Button (Note 2)

Q-Flash Plus allows you to update the BIOS when your system is off (S5 shutdown state). Save the latest BIOS on a USB thumb drive and plug it into the dedicated port, and then you can now flash the BIOS automatically by simply pressing the Q-Flash Plus button. The QFLED will flash when the BIOS matching and flashing activities start and will stop flashing when the main BIOS flashing is complete.

SMA Antenna Connectors (2T2R)

Use this connector to connect an antenna.



Tighten the antennas to the antenna connectors and then aim the antennas correctly for better signal reception.

Dine Out

The line out jack. For better sound quality, it is recommended that you connect your headphone/speaker to this jack (actual effects may vary by the device being used).

Mic In

The Mic in jack.

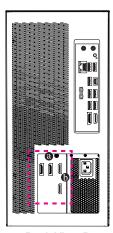
- (Note 1) The DisplayPort does not support HDMI connection by adapter.
- (Note 2) To enable Q-Flash Plus function, refer to Chapter 3.



- When removing the cable connected to a back panel connector, first remove the cable from your
 device and then remove it from the motherboard.
- When removing the cable, pull it straight out from the connector. Do not rock it side to side to
 prevent an electrical short inside the cable connector.



Please visit GIGABYTE's website for details on configuring the audio software.



Back View-B

- DisplayPort
 - The connector supports DisplayPort 1.4a version.
- 6 HDMI Port





We recommend that you connect the monitor cable to the graphics card.

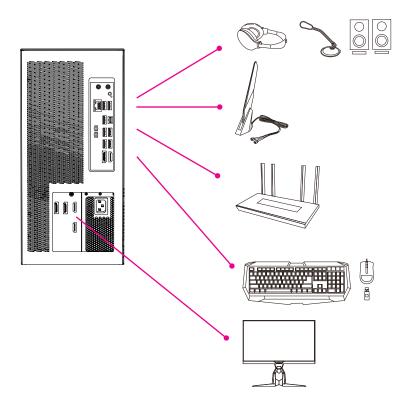
1-3 Getting Started



This product is designed and intended to be used in vertical position only.

Connecting Peripheral Devices

Connect your peripheral devices such as keyboard, mouse, monitor, and etc. to the desktop computer.

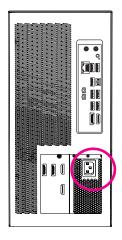


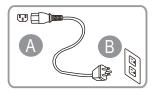


We recommend that you connect the monitor cable to the graphics card.

Connecting the Power Cord

Connect the included power cord to the desktop computer and a power outlet.





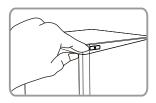
Turning on

Press the power button to turn on the desktop computer.



It is recommended that the product be used in an open and well-ventilated area; keep a distance of at least 10 cm around the product for ventilation to ensure proper system operation.





Chapter 2 BIOS Setup

2-1 Entering the BIOS Setup

To access the BIOS Setup program, press the <Delete> key during the POST when the power is turned on. When the power is turned off, the battery on the motherboard supplies the necessary power to the CMOS to keep the configuration values in the CMOS.

Startup Screen

The following startup Logo screen will appear when the computer boots.



Function Kevs:

: BIOS SETUP\Q-FLASH

Press the <Delete> key to enter BIOS Setup or to access the Q-Flash utility in BIOS Setup.

<F12>: BOOT MENU

Boot Menu allows you to set the first boot device without entering BIOS Setup. In Boot Menu, use the up arrow key <1> or the down arrow key <1> to select the first boot device, then press <Enter> to accept. The system will boot from the device immediately.

Note: The setting in Boot Menu is effective for one time only. After system restart, the device boot order will still be based on BIOS Setup settings.

<END>: Q-FLASH

Press the <End> key to access the Q-Flash utility directly without having to enter BIOS Setup first.



- Because BIOS flashing is potentially risky, if you do not encounter problems using the current version of BIOS, it is recommended that you not flash the BIOS. To flash the BIOS, do it with caution. Inadequate BIOS flashing may result in system malfunction.
- It is recommended that you not alter the default settings (unless you need to) to prevent system instability or other
 unexpected results. Inadequately altering the settings may result in system's failure to boot. If this occurs, try to
 clear the CMOS values and reset the board to default values. (Refer to the "Load Optimized Defaults" section
 for how to clear the CMOS values.)

2-2 Setting the BIOS Display Language



To set the BIOS display language, go to the **System Info**. menu. The **BIOS Language** setting allows you to select the default language used by the BIOS.

2-3 Setting Administrator/User Password



Go to the **Boot** menu to set the administrator password or user password for your desktop computer.

Administrator Password

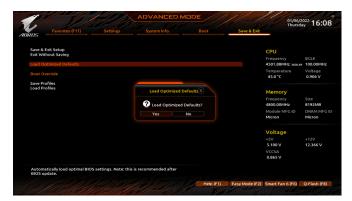
Allows you to configure an administrator password. Press <Enter> on this item, type the password, and then press <Enter>. You will be requested to confirm the password. Type the password again and press <Enter>. You must enter the administrator password (or user password) at system startup and when entering BIOS Setup. Differing from the user password, the administrator password allows you to make changes to all BIOS settings.

User Password

Allows you to configure a user password. Press <Enter> on this item, type the password, and then press <Enter>. You will be requested to confirm the password. Type the password again and press <Enter>. You must enter the administrator password (or user password) at system startup and when entering BIOS Setup. However, the user password only allows you to make changes to certain BIOS settings but not all. To cancel the password, press <Enter> on the password item and when requested for the password, enter the correct one first. When prompted for a new password, press <Enter> without entering any password. Press <Enter> again when prompted to confirm.

NOTE: Before setting the User Password, be sure to set the Administrator Password first.

2-4 Loading Optimized Defaults

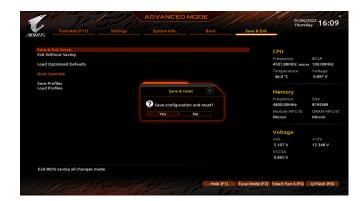


Go to the Save & Exit menu to load the BIOS default settings.

Load Optimized Defaults

Press <Enter> on this item and select **Yes** to load the optimal BIOS default settings. The BIOS defaults settings help the system to operate in optimum state. Always load the Optimized defaults after updating the BIOS or after clearing the CMOS values.

2-5 Saving the BIOS Settings and Exiting



☐ Save & Exit Setup

Press <Enter> on this item and select **Yes**. This saves the changes to the CMOS and exits the BIOS Setup program. Select **No** or press <Esc> to return to the BIOS Setup Main Menu.

Press <Enter> on this item and select **Yes**. This exits the BIOS Setup without saving the changes made in BIOS Setup to the CMOS. Select **No** or press <Esc> to return to the BIOS Setup Main Menu.

→ Boot Override

Allows you to select a device to boot immediately. Press <Enter> on the device you select and select **Yes** to confirm. Your system will restart automatically and boot from that device.

Chapter 3 Appendix

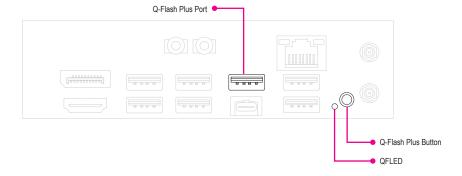
Using Q-Flash Plus

A. Before You Begin:

- From GIGABYTE's website, download the latest compressed BIOS update file that matches your product model.
- Uncompress the downloaded BIOS file, save it to your USB flash drive, and rename it to GIGABYTE.bin. (Note: The USB flash drive must use FAT32/16/12 file system.)
- Please turn on the power supply before connecting the USB flash drive to the Q-Flash Plus port on the back panel.

B. Using Q-Flash Plus

Press the Q-Flash Plus button and the system will automatically search and match the BIOS file in the USB flash drive on the Q-Flash Plus port. The QFLED and the Q-Flash Plus button on the rear panel will flash during the BIOS matching and flashing process. Wait for 6-8 minutes and the LEDs will stop flashing when the BIOS flashing is complete.





If you choose to update the BIOS manually, first make sure that your system is off (S5 shutdown state).

Regulatory Notices

Supplier's Declaration of Conformity 47 CFR § 2.1077 Compliance Information

Product Name: GIGABYTE DESKTOP PC Trade Name: GIGABYTE Model Number: AMSI7N7I-21A1

European Union (EU) CE Declaration of Conformity

This device complies with the following directives: Electromagnetic Compatibility Directive 2014/30/EU, Low-voltage Directive 2014/35/EU, Radio Equipment Directive 2014/53/EU, ErP Directive 2009/125/EC, RoHS directive (recast) 2011/65/EU & the 2015/863 Statement. This product has been tested and found to comply with all essential requirements of the Directives.

European Union (EU) RoHS (recast) Directive 2011/65/EU & the European Commission Delegated Directive (EU) 2015/863

GIGABYTE products have not intended to add and safe from hazardous substances (Cd, Pb, Hg, Cr+6, PBDE, PBB, DEHP, BBP, DBP and DIBP). The parts and components have been carefully selected to meet RoHS requirement. Moreover, we at GIGABYTÉ are continuing our efforts to develop products that do not use internationally banned toxic chemicals.

European Union (EU) Community Waste Electrical & Electronic Equipment (WEEE) Directive Statement

GIGABYTE will fulfill the national laws as interpreted from the 2012/19/ EU WEEE (Waste Electrical and Electronic Equipment) (recast) directive. The WEEE Directive specifies the treatment, collection, recycling and disposal of electric and electronic devices and their components. Under the Directive, used equipment must be marked, collected separately, and disposed of properly.

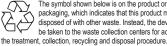
WEEE Symbol Statement



The symbol shown below is on the product or on its packaging, which indicates that this product must not be disposed of with other waste. Instead, the device should be taken to the waste collection centers for activation of the treatment, collection, recycling and disposal procedure.

For more information about where you can drop off your waste equipment for recycling, please contact your local government office, your household waste disposal service or where you purchased the product for details of environmentally safe recycling.

End of Life Directives-Recycling



The symbol shown below is on the product or on its packaging, which indicates that this product must not be disposed of with other waste. Instead, the device should be taken to the waste collection centers for activation of

Déclaration de Conformité aux Directives de l'Union européenne

Cet appareil portant la marque CE est conforme aux directives de

l'UE suivantes: directive Compatibilité Electromagnétique 2014/30/ UE, directive Basse Tension 2014/35/UE, directive équipements radioélectriques 2014/53/UE, la directive RoHS II 2011/65/UE & la déclaration 2015/863.

La conformité à ces directives est évaluée sur la base des normes européennes harmonisées applicables.

European Union (EU) CE-Konformitätserklärung

Dieses Produkte mit CE-Kennzeichnung erfüllen folgenden EU-Richtlinien: EMV-Richtlinie 2014/30/EU, Niederspannungsrichtlinie 2014/35/EU, Funkanlagen Richtlinie 2014/53/EU, RoHS-Richtlinie 2011/65/EU erfüllt und die 2015/863 Erklärung.

Die Konformität mit diesen Richtlinien wird unter Verwendung der entsprechenden Standards zur Europäischen Normierung beurteilt.

CE declaração de conformidade

Este produto com a marcação CE estão em conformidade com das seguintes Diretivas UE: Diretiva Baixa Tensão 2014/35/EU; Diretiva CEM 2014/30/EU; Diretiva RSP 2011/65/UE e a declaração 2015/863. A conformidade com estas diretivas é verificada utilizando as normas europeias harmonizadas.

CE Declaración de conformidad

Este producto que llevan la marca CE cumplen con las siguientes Directivas de la Unión Europea: Directiva EMC 2014/30/EU, Directiva de bajo voltaje 2014/35/EU, Directiva de equipamentos de rádio 2014/53/EU, Directiva RoHS 2011/65/EU y la Declaración 2015/863. El cumplimiento de estas directivas se evalúa mediante las normas europeas armonizadas

CE Dichiarazione di conformità

I prodotti con il marchio CE sono conformi con una o più delle seguenti Direttive UE, come applicabile: Direttiva EMC 2014/30/UE, Direttiva sulla bassa tensione 2014/35/UE, Direttiva di apparecchiature radio 2014/53/UE, Direttiva RoHS 2011/65/EU e Dichiarazione 2015/863. La conformità con tali direttive viene valutata utilizzando gli Standard europei armonizzati applicabili.

Deklaracja zgodności UE Unii Europejskiej

Urządzenie jest zgodne z następującymi dyrektywami: Dyrektywa kompatybilności elektromagnetycznej 2014/30/UE, Dyrektywa niskonapięciowej 2014/35/UE, Dyrektywa urządzeń radiowych 2014/53/ UE, Dyrektywa RoHS 2011/65/UE i dyrektywa2015/863. Niniejsze urządzenie zostało poddane testom i stwierdzono jego zgodność z wymaganiami dyrektywy.

ES Prohlášení o shodě

Toto zařízení splňuje požadavky Směrnice o Elektromagnetické kompatibilitě 2014/30/EU, Směrnice o Nízkém napětí 2014/35/ EU, Směrnice o rádiových zařízeních 2014/53/EU, Směrnice RoHS 2011/65/EU a 2015/863. Tento produkt byl testován a bylo shledáno, že splňuje všechny základní požadavky směrnic.

EK megfelelőségi nyilatkozata

A termék megfelelnek az alábbi irányelvek és szabványok követelményeinek, azok a kiállításidőpontjában érvényes, aktuális változatában: EMC irányelv 2014/30/EU, Kisfeszültségű villamos berendezésekre vonatkozó irányelv 2014/35/EU, rádióberendezések irányelv 2014/53/EU, RoHS irányelv 2011/65/EU és 2015/863.

Δήλωση συμμόρφωσης ΕΕ Είναι σε συμμόρφωση με τις διατάξεις των παρακάτω Οδηγιών της Ευρωπαϊκής Κοινότητας; Οδηγία 2014/30/ΕΕ σχετικά με την ηλεκτρομαγνητική συμβατότητα, Οοδηγία χαμηλή τάση 2014/35/ΕU, Οδηγία 2014/53/ΕΕ σε ραδιοεξοπλισμό, Οδηγία RoHS 2011/65/ΕΕ και 2015/863.

Η συμμόρφωση με αυτές τις οδηγίες αξιολογείται χρησιμοποιώντας τα ισχύοντα εναρμονισμένα ευρωπαϊκά πρότυπα.

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UK contact point: GBT TECH. CO. LTD 13 Warren Yard, Wolverton Mill, Milton Keynes MK12 5NW, United Kingdom Tel: +44 (0)1908 322878

European Community Radio Equipment Directive Compliance Statement:

This equipment complies with all the requirements and other relevant provisions of Radio Equipment Directive 2014/53/EU. This equipment is unitable for home and office use in all the European Community Member States and EFTA Member States. The low bands.15 - 5.35 GHz is for indoor use only.



Wireless module manufacturer: Intel® Corporation SAS Wireless module model name: KILLER1650I (AX201)

Taiwan NCC Wireless Statements / 無線設備警告聲明:

低功率電波輻射性電機管理辦法

- (1)取得審驗證明之低功率射頻器材,非經核准,公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。低功率射頻器材之使用不得影響飛航安全及干擾合法通信;經發現有干擾現象時,應立即停用,並改善至無干擾時方得繼續使用。前述合法通信,指依電信管理法規定作業之無線電通信。低功率射頻器材須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。
- (2) 應避免影響附近雷達系統之操作。
- (3) 高增益指向性天線只得應用於固定式點對點系統。

Korea KCC NCC Wireless Statement:

5,25GHz - 5,35 GHz 대역을 사용하는 무선 장치는 실내에서만 사용하도록 제한됩니다.

Korea EMC Warning Statement:

이 기기는 업무용 환경에서 사용할 목적으로 적합성평가를 받은 기기로서 가정용 환경에서 사용하는 경우 전파간섭의 우려가 있습니다.

Japan Wireless Statement:

5.15 GHz 帯~5.35 GHz 帯: 屋内のみの使用。

Wireless module country approvals:

Wireless module manufacturer: Intel® Corporation
Wireless module model name: KILLER1650I (AX201)





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Tech. and Non-Tech. Support (Sales/Marketing): https://esupport.gigabyte.com

WEB address (English): https://www.gigabyte.com WEB address (Chinese): https://www.gigabyte.com/tw

GIGABYTE eSupport

To submit a technical or non-technical (Sales/Marketing) question, please link to: https://esupport.gigabyte.com

