

# **User Manual**

## **DKA1GH**

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## ■ Notice

The illustrations in this user's manual are for reference only. Actual product specifications may vary with territories.

The information in this user's manual is subject to change without notice.

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Reverse engineering or disassembly is prohibited.

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# Preface

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## ■ 1.1 Regulations information

### • CE compliance

This device is classed as a technical information equipment (ITE) in class B and is intended for use in living room and office.

### • FEDERAL COMMUNICATIONS COMMISSION INTERFERENCE STATEMENT

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/ TV technician for help.



**CAUTION:** Any changes or modifications not expressly approved by the guarantee of this device could void the user's authority to operate the equipment.

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This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

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

- **RF exposure warning**

This equipment must be installed and operated in accordance with provided instructions and the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter. End-users and installers must be provide with antenna installation instructions and transmitter operating conditions for satisfying RF exposure compliance.

- **Canada, Industry Canada (IC) Notices**

This device complies with Industry Canada's licence-exempt RSSs. Operation is subject to the following two conditions:

- (1) This device may not cause interference; and
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

- **Canada, avis d'Industry Canada (IC)**

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

- (1) l'appareil ne doit pas produire de brouillage, et
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

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Users should also be advised that high-power radars are allocated as primary users (i.e. priority users) of the bands 5250-5350 MHz and 5650-5850 MHz and that these radars could cause interference and/or damage to LE-LAN devices.

Devraient également être informés les utilisateurs que les radars à haute puissance sont désignés comme utilisateurs principaux (c.-à-d. utilisateurs prioritaires) des bandes 5250-5350 MHz et 5650-5850 MHz et que ces radars pourraient provoquer des interférences et / ou endommager les appareils LE-LAN.

- **Radio Frequency (RF) Exposure Information**

The radiated output power of the Wireless Device is below the Industry Canada (IC) radio frequency exposure limits. The Wireless Device should be used in such a manner such that the potential for human contact during normal operation is minimized.

This device has also been evaluated and shown compliant with the IC RF Exposure limits under mobile exposure conditions. (antennas are greater than 20cm from a person's body).

- **Informations concernant l'exposition aux fréquences radio (RF)**

La puissance de sortie émise par l'appareil de sans fil est inférieure à la limite d'exposition aux fréquences radio d'Industry Canada (IC). Utilisez l'appareil de sans fil de façon à minimiser les contacts humains lors du fonctionnement normal.

Ce périphérique a également été évalué et démontré conforme aux limites d'exposition aux RF d'IC dans des conditions d'exposition à des appareils mobiles (antennes sont supérieures à 20 cm à partir du corps d'une personne).

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## ■ 1.2 Safety instructions

The following safety precautions will increase the life of the Computer. Follow all Precautions and instructions.

Do not place this device underneath heavy loads or in an unstable position.

Do not use or expose this device around magnetic fields as magnetic interference may affect the performance of the device.

Do not expose this device to high levels of direct sunlight, high-humidity or wet conditions.

Do not block the air vents to this device or impede the airflow in any way.

Do not expose to or use near liquid, rain, or moisture.

Do not use the modem during electrical storms.

- The unit can be operated at an ambient temperature of max. 35°C (95°F). Do not subject it to temperatures below 5°C (41°F) or above 35°C (95°F).
- CAUTION: RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS.

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## ■ 1.3 Notes for this manual



CAUTION! Important information that must be followed for safe operation.

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NOTE : Information for special situations.

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## ■ 1.4 Release history

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Version	Revision Note	Date
1.0	First Released	04.2017

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# Getting to know the basics

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## ■ 2.1 Product specification

This User's Manual provides instructions and illustrations on how to operate this desktop PC. It is recommended to read this manual carefully before using this desktop PC.

### • Physical Characteristic

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Dimension	143 x 143 x 87 mm
Weight	1.45Kg w/o RAM/HDD/SSD (depend upon the actually shipping product)

### • CPU

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Support Processor	Intel® KabyLake-H
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### • Core Chips

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Express Chipset	Intel® HM175
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### • Memory

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DDR4	DDR4 2400 MHz, swap support RAM socket x2, up to 32GB total
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### • Power

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AC Adapter	180 watts, 3pin
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### • Storage

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HDD	Support 2.5" SATA HDD, 7mm & 9.5mm, 5400rpm
Card reader	Support memory SD card only
SSD	M.2 2280 slot x1

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## • I/O Port

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DC-in	x 1
USB	USB 2.0 x 4 + USB 3.0 x 4 + USB 3.0 Type-C x 1
RJ45	x 1
Phone jack	x 1 (3.5mm for external headphone + microphone)
Front SD card reader	x 1
Displayport	x 1
HDMI 1.4	x 3
Kensington® Lock	x 1

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## • Audio

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Audio Codec	Azalia standard support
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## • Communication Port

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LAN Controller	Supports 10/100/1000 Mb/Sec., PCIE interface
Network Proxy-Remote Wake	Supports S3/S4/S5 wake ON LAN (WOL) feature Sleep mode or LPM <10W
Wireless LAN+Bluetooth	Support IEEE 802.11 b/g/n & 802.11 a/c M.2 type, A+E key module, PCIE interface BT 4.0, USB interface

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## • Optional

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Creative “X-Fi MB 5” audio application as option

Users could experience the effect via phone jack, ex: headset or speakers.

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**CAUTION: MODEL DKA1GH IS DESIGNED TO USE WITH THE DC INPUT:  
(19.5V/9.23A) ADAPTERS.**

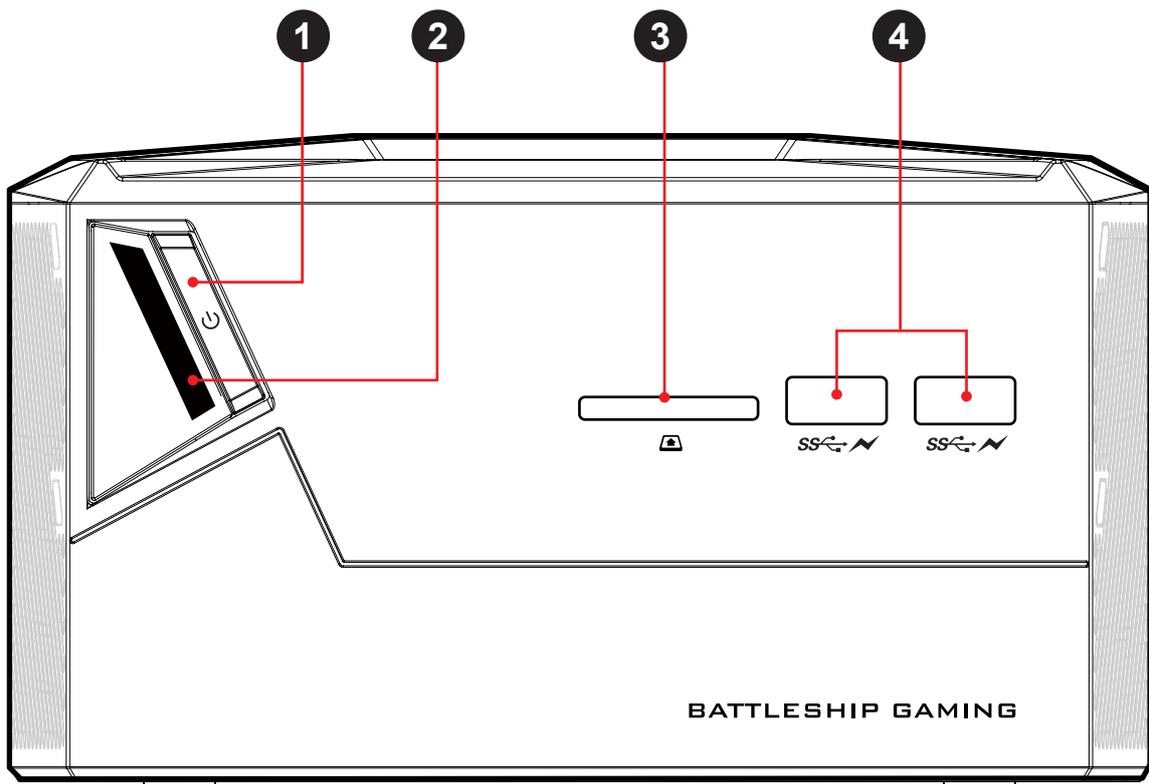
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## ■ 2.2 Product overview

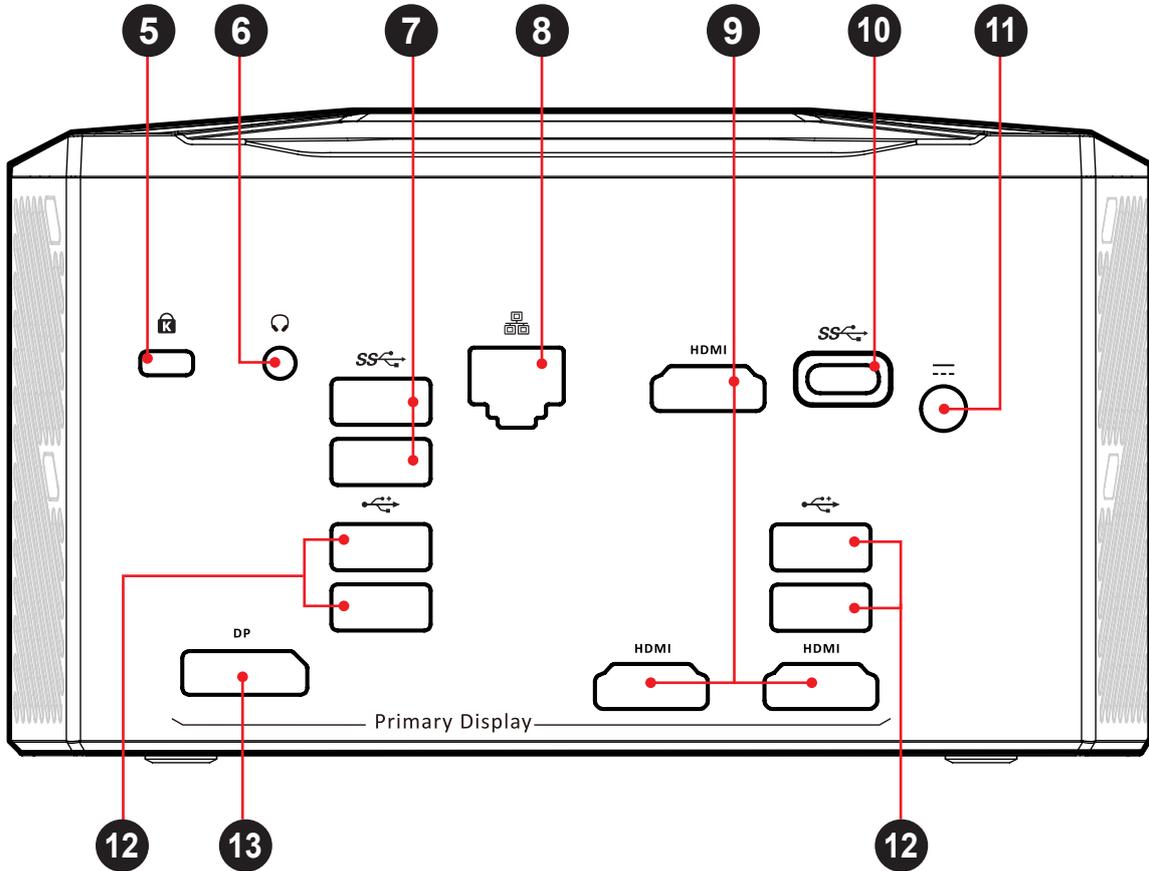
 NOTE: The product's color, I/O port, indicator location, and specification will depend upon the actually shipping product.

This section provides the description of basic aspects of the desktop PC. Refer to the following illustration to identify the components on this side of the desktop PC. Features and configurations vary by model.

### Front side view



Back side view



Top side components

Function description

**1** Power button  Turns on the power of your desktop pc. Please press power button for resuming from Sleep(S3) mode.

**2** Power status LED The power indicator shows the power status.

Status	Color
Power on	White
Suspend	Blinking white

Top side components	Function description
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**3** Card reader  SD memory card.

NOTE: To prevent damage to information stored on the memory card, unmount the card before removing it from the device .

1. Click show hidden icons.
2. Right-click on "Safely Remove Hardware" and "Eject Media".
3. Select drive you want to eject.

**4** Front USB 3.0 ports  Connect USB devices. (such as USB zip drive, keyboard or mouse) into this jack.

- Supports Apple/Samsung/Xiaomi mobile phone charging under AC mode, power-off: 2.1A Max., power-on: 1.5A

**5** Kensington® lock port  To be secured using Kensington® lock port security products.

**6** Headphone and microphone jack  Connect amplified speaker, headphone or microphone into this jack.

**7** USB 3.0 ports  Connect USB devices. (such as USB zip drive, keyboard or mouse) into this jack.

- Supports power function when system shut down under AC mode, Power Rating: 1.5A

**8** Network Jack  Connects network.

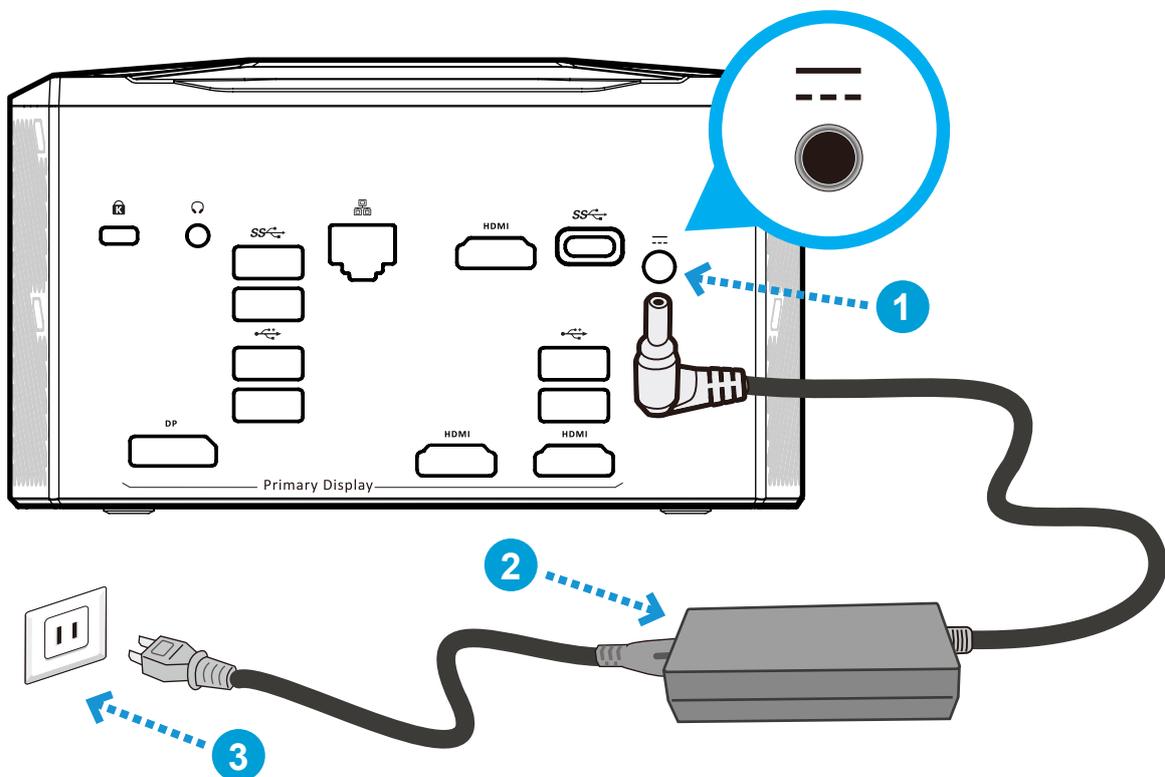
Top side components	Function description
<b>9</b> HDMI ports	<b>HDMI</b> Connects an external HDMI monitor.
<b>10</b> USB 3.0 Type-C port	 <p>Connect a USB device. (such as USB zip drive, keyboard or mouse) into this jack.</p> <ul style="list-style-type: none"> <li>- Support data transmission, 3A power rating supply, display/audio function.</li> </ul>
<b>11</b> Power Connector	 <p>Connect the AC adapter into this connector.</p>
<b>12</b> USB 2.0 ports	 <p>Connect USB devices. (such as USB zip drive, keyboard or mouse) into this jack.</p> <ul style="list-style-type: none"> <li>- Supports power function when system shut down under AC mode, Power Rating: 0.5A</li> </ul>
<b>13</b> DisplayPort	<b>DP</b> Connects an external monitor.

# Getting started

## ■ 3.1 Connecting to power

Note that the AC adapter included in the package is approved for your desktop PC; using other adapter model may damage either the desktop PC or other devices attached to it.

Plug the AC adapter cable into the DC power connector. Connect one end of the power cable to the supplied power adapter, and the other end to a wall outlet.



**CAUTION:** Do not use inferior extension cords as this may result in damage to your desktop PC. The desktop PC comes with its own AC adapter. Do not use a different adapter to power the computer and other electrical devices.



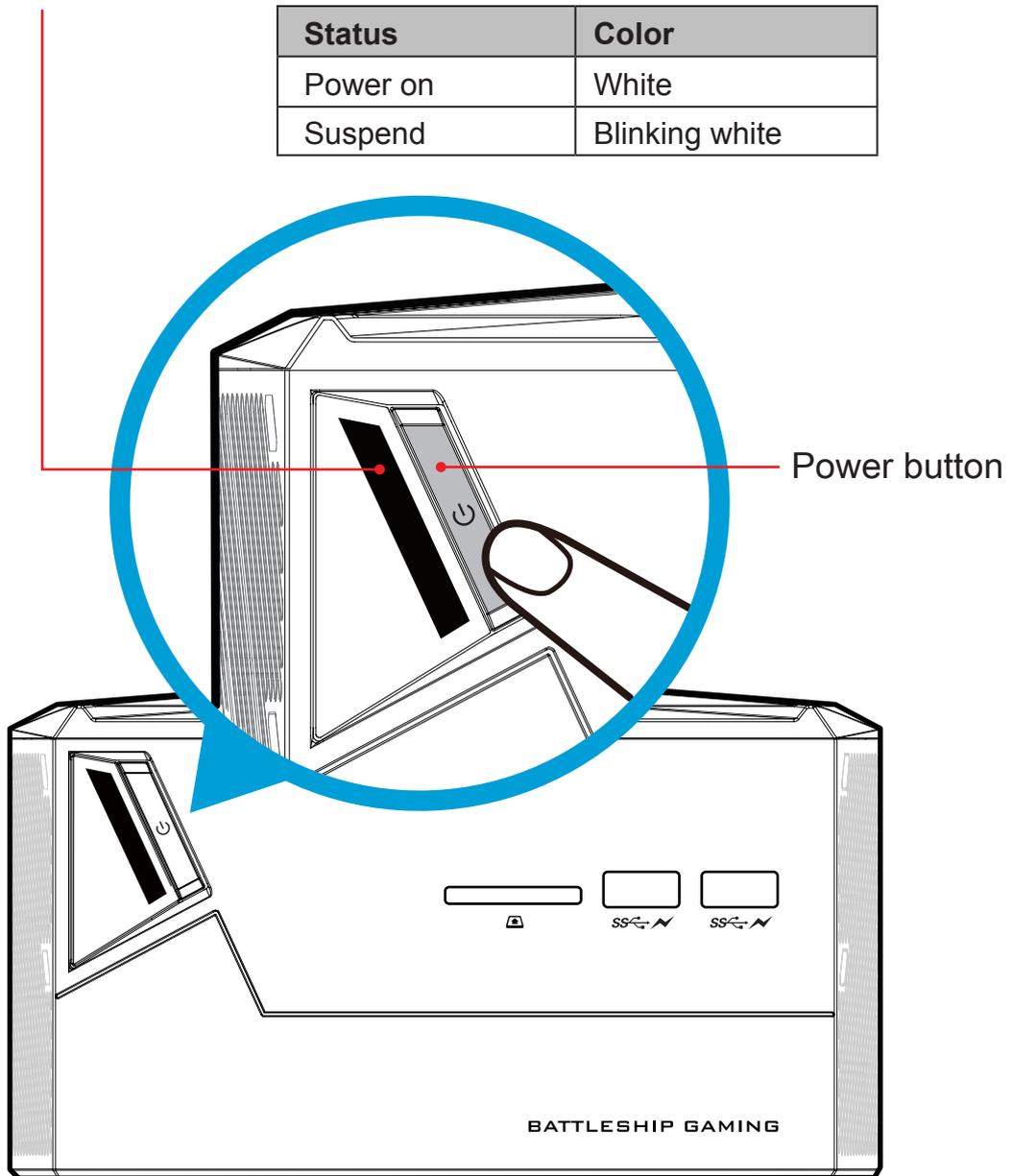
**NOTE:** The power adapter may become warm to hot when in use. Be sure not to cover the adapter and keep it away from your body.

## ■ 3.2 Powering on system

Connecting Monitor/Keyboard/Mouse/LAN and press the power button  to turn on your desktop PC.

Power status LED : The power indicator shows the power status.

Status	Color
Power on	White
Suspend	Blinking white

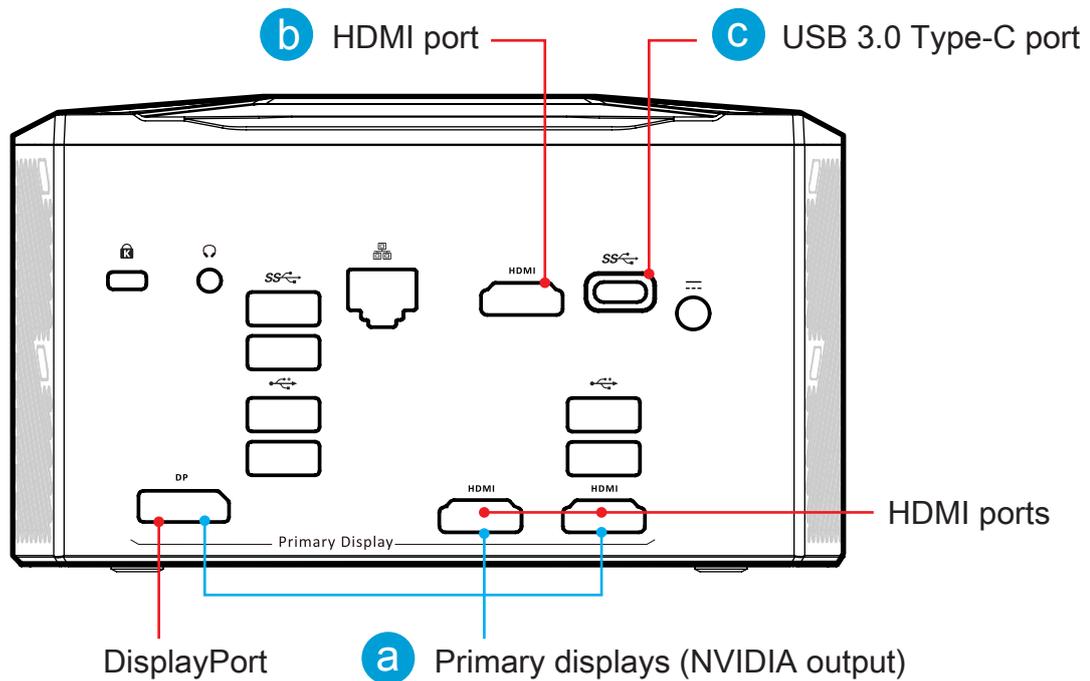


### ■ 3.3 Support up to five displays and 4K Ultra HD

The product provides one DisplayPort, one USB 3.0 Type-C, and three HDMI video outputs to support up to five independent displays. The series includes three external graphic outputs and two internal outputs. Gamers can make mirror or extend displays whatever you like for gaming experience.

- Support 4K Ultra HD: Using DisplayPort & HDMI interface supports 4K resolution with four times of Full HD. Playing 4K video will make viewers enjoy crystal clear imaging of 4K.

Display	Max Resolution
DisplayPort	4096x2304@60Hz
HDMI	4096x2304@24Hz

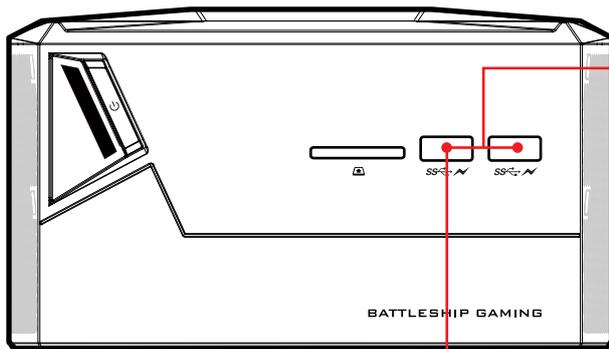


👉 NOTE: For best performance, we strongly recommend to use external graphic outputs in first priority that mark as “ **a** Primary displays (NVIDIA output) ” on the chassis. The upper **b** HDMI & **c** USB 3.0 Type-C ports do not support hot plug.

## ■ 3.4 Eight USB ports to satisfy all your needs

The product has built-in four USB 2.0 ports and four USB 3.0 ports that provide your various usage.

USB Version	Level of Speed	Bandwidth	Speed
USB 3.0	Super Speed	5Gbps	Approximately 500MB/s (5,000Mbit/s)
USB 2.0	Hi-Speed	480Mbps	Approximately 60MB/s (60,000KB/s)

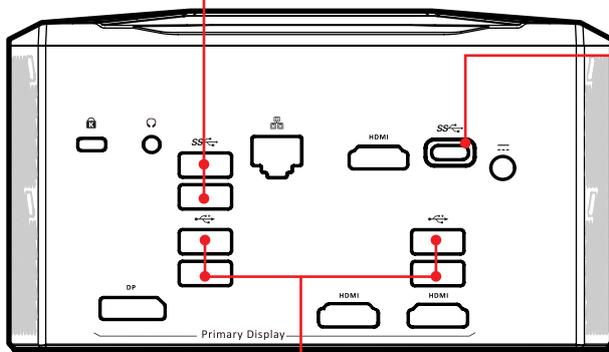


Quick charge via USB3.0 

Supports mobile devices fast charge and provide 2A current. No matter the system is turn-on or under AC mode.

USB3.0 High Speed Transmission 

Supports up to 5 Gbps. An USB 3.0 port provides 10 times greater data access speed than USB 2.0 port.



USB 3.0 Type-C 

Bandwidth 10Gbps, 3A power rating supply. It's not only for data transmission, but also with display/audio function. We offers a wide range of usage scenario.

USB 2.0 ports 

# BIOS setup

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## ■ 4.1 About BIOS setup

The default BIOS (Basic Input/Output System) is already properly configured and optimized, there is normally no need to run this utility.

### ■ 4.1.1 When to use BIOS setup ?

You may need to run the BIOS Setup when:

- An error message appears on the screen during the system booting up and is requested to run SETUP.
- You want to change the default settings for customized features.
- You want to reload the default BIOS settings.

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 **CAUTION!** We strongly recommend that you change the BIOS settings only with the help of a trained service personnel.

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### ■ 4.1.2 How to run BIOS setup ?

To run the BIOS Setup Utility, turn on the computer and press the [Del] or [F2] key during the POST procedure.

If the message disappears before you respond and you still wish to enter Setup, either restart the system by turning it OFF and ON, or simultaneously pressing [Ctrl]+[Alt]+[Del] keys to restart.

The setup function only can be invoked by pressing [Del] or [F2] key during POST that provide an approach to change some setting and configuration the user prefer, and the changed values will save in the NVRAM and will take effect after the system rebooted.

Press [F7] key for Boot Menu.

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 **NOTE :** The drivers, BIOS and utilities bundled in the support DVD may vary by models and are subject to change without notice.

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• When OS support is windows 10 :

1. Click the Start  menu and select Settings.
2. Select Update and Security.
3. Click Recovery
4. Under Advanced startup, click Restart now.  
The system will restart and show the Windows 10 boot menu.
5. Select Troubleshoot.
6. Choose Advanced options.
7. Select UEFI Firmware Settings.
8. Click Restart to restart the system and enter UEFI (BIOS).