



OWNER'S MANUAL

SAPPHIRE EDGE AI™ 300 SERIES

SAPPHIRE EDGE AI™ 370

SAPPHIRE EDGE AI™ 350

SAPPHIRE EDGE AI™ 340



TRADEMARK

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These specifications are subject to change without notice.

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Copyright Notice:

Disclaimer:

Federal Communications Commission (FCC) Statement

This device has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of 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 instructions contained in this manual, may cause harmful interference to radio and television communications. However, there is no guarantee that interference will not occur in a particular installation.

If this product 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 product 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.

⚡ Note1:

Connecting this device to peripheral devices that do not comply with Class B requirements, or using an unshielded peripheral data cable, could also result in harmful interference to radio or television reception.

⚡ Note2:

The user is cautioned that any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this product.

⚡ Note3:

To ensure that the use of this product does not contribute to interference, it is necessary to use shielded I/O cables.

Conformité Européenne (CE)

SAPPHIRE follows the green design concept to design and manufacture our products, and makes sure that each stage of the product life cycle of SAPPHIRE product is in line with global environmental regulations. In addition, SAPPHIRE disclose the relevant information based on regulation requirements.

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



Replaceable batteries



WARNING

THIS PRODUCT CONTAINS A BUTTON BATTERY

If swallowed, a button battery can cause serious injury or death. Please keep batteries out of sight or reach of children.

CAUTION

RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE. DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS

This product is intended to be supplied by a Listed Power Adapter or DC power source marked "L.P.S." (or "Limited Power Source"), rated 19 Vdc, 6.32 A minimum, Tma = 40-degree C minimum.

Button Battery Safety Notice

 WARNING	
- INGESTION HAZARD: This product contains a button cell or coin battery. - DEATH or serious injury can occur if ingested. - A swallowed button cell or coin battery can cause Internal Chemical Burns in as little as 2 hours. - KEEP new and used batteries OUT OF REACH of CHILDREN. - Seek immediate medical attention if a battery is suspected to be swallowed or inserted inside any part of the body.	

- Remove and immediately recycle or dispose of used batteries according to local regulations and keep away from children. Do NOT dispose of batteries in household trash or incinerate.
- Even used batteries may cause severe injury or death.
- Call a local poison control center for treatment information.
- Battery type: CR2032 with pigtail connector
- Battery voltage: 3V
- Non-rechargeable batteries are not to be recharged.
- Do not force discharge, recharge, disassemble, heat above (manufacturer's specified temperature rating) or incinerate. Doing so may result in injury due to venting, leakage or explosion resulting in chemical burns.
- This product contains an irreplaceable battery.
- This icon indicates that a swallowed button battery can cause serious injury or death. Please keep batteries out of sight or reach of children.

Waste Electrical and Electronic Equipment (WEEE) Statement

To protect the global environment, this product must be sent to separate collection facilities for recovery and recycling.



DISPOSAL

Do not dispose of this product as unsorted municipal waste. Collect such waste separately for special treatment.

Manufacturer

Sapphire Technology PTE Limited

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SINGAPORE 079903

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Chapter 1 Introduction

The SAPPHIRE EDGE AI™ Series is powered by the cutting-edge AMD Ryzen™ AI 300 Series processors, designed to elevate productivity and creativity on your PC. Unlock unparalleled AI-driven experiences and push your performance to the next level. Featuring an all-in-one solution with a Neural Processing Unit (NPU), AMD Ryzen™ Processor (CPU), and AMD Radeon™ Graphics (GPU), the SAPPHIRE EDGE AI™ 300 Series harnesses the latest AI capabilities to enhance Content Creation, Gaming, and Productivity.

The SAPPHIRE EDGE AI™ Series offer a versatile range of products, including the SAPPHIRE EDGE AI™ 370, SAPPHIRE EDGE AI™ 350, and SAPPHIRE EDGE AI™ 340, ensuring there's a perfect solution for every scenario. With this comprehensive lineup, the SAPPHIRE EDGE AI™ 300 Series caters to a wide range of requirements, from high-end performance to everyday efficiency.

1-1 Safety

Use the following safety guidelines to protect your computer from potential damage and to ensure your personal safety.

- **Before working inside your computer, make sure your computer has shut down completely and remove the power adapter**
- **To avoid damaging the computer, ensure that the work surface is flat, dry, and clean**
- **To avoid damaging the components, handle them by their edges, and avoid touching the pins and the contacts**
- **Damage due to servicing that is not authorized by Sapphire is not covered by your warranty**
- **Before touching anything inside your computer, ground yourself by touching an unpainted metal surface, such as the metal at the back of the computer. While you work, periodically touch an unpainted metal surface to dissipate static electricity which could harm internal components.**

Note:

The color of your computer and certain components may differ from what is shown in this document

1-2 Package Contents

- 1 x SAPHIRE EDGE AI™ 300 Series Mini PC
- 1 x VESA Mount Bracket & Screw Package
- 1 x 19V/120W Power Adapter
- 4 x Power Cords
- 1 x Quick Setup Guide



The barebone system does not include hard drive (M.2 SSD) and Memory.
If any items missing and appear damaged, please contact your authorized dealer

1-3 System Specifications

Full system hardware configurations of SAPHIRE EDGE AI™ 300 Series Mini PC.

Models	SAPHIRE EDGE AI™ 370	SAPHIRE EDGE AI™ 350	SAPHIRE EDGE AI™ 340
Processor (CPU)	AMD Ryzen AI™ 9 HX 370	AMD Ryzen AI™ 7 350	AMD Ryzen AI™ 5 340
Processor (GPU)	AMD Radeon™ 890M	AMD Radeon™ 860M	AMD Radeon™ 840M
Memory	Support dual channel DDR5 SO-DIMM slots Support up to 96 GB DDR5 Memory (2 x 48GB dual channel) Support up to 5600 MHz		
Expansion Slots	1 x 2280 M.2 PCIe Slot (KEY M) with PCIe Gen4x4 for SSD 1 x 2242 M.2 PCIe Slot (KEY M) with PCIe Gen4x4 for SSD 1 x 2230 M.2 PCIe Slot (KEY E, Default installed with WLAN module)		
WiFi	WiFi 6E: Support WiFi 802.11b/g/n/ac/ax		
Bluetooth	Bluetooth 5.2		
Ethernet	2.5G LAN		
Front I/O	1 x Audio Jack 2 x USB 3.2 Gen 2 Type-A 1 x Power Button with LED		
Rear I/O	1 x DC Jack 2 x HDMI 2.1 1 x RJ 45 Ethernet 2 x USB 4.0 Type-C (with PD 3.0 and support DP 1.4a display output) 1 x USB 3.2 Gen2 Type-A 1 x USB 2.0 Gen2 Type-A		
Adapter	Input: AC 100~240V Output: 19Vdc/6.32A, 120W MAX		

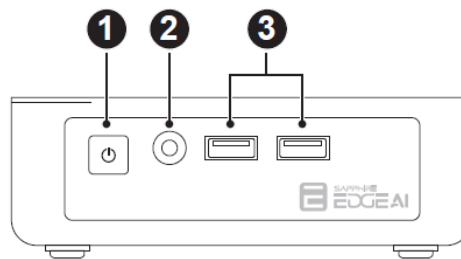
Dimensions	117 x 111 x 30 mm (Width x Depth x Height)
VESA Mount	Support VESA Mount
Operating Temperature	0 °C ~ 40 °C

Specifications may vary for different configurations

Chapter 2 Product Overview

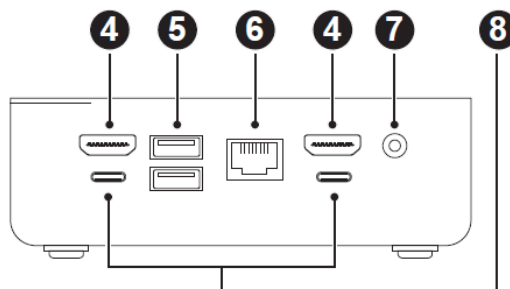
In the product overview chapter, this is to provide diagrams showing the important components locations of SAPPHIRE EDGE AI™ 300 Series Mini PC.

2-1 Front View



Numbers	Description
1	LED Power Button
2	Audio Jack (Headphone, Microphone)
3	2 x USB 3.2 Gen 2 Type-A

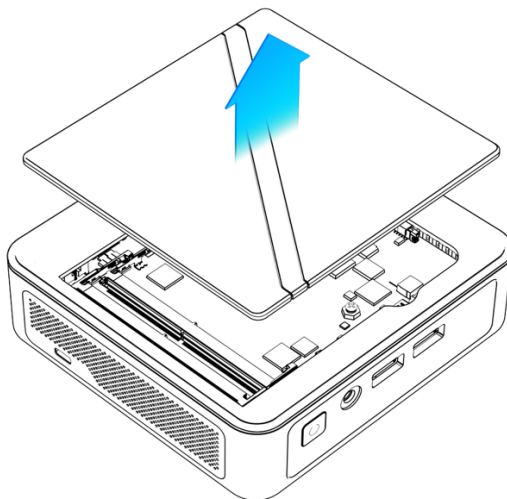
2-2 Rear View



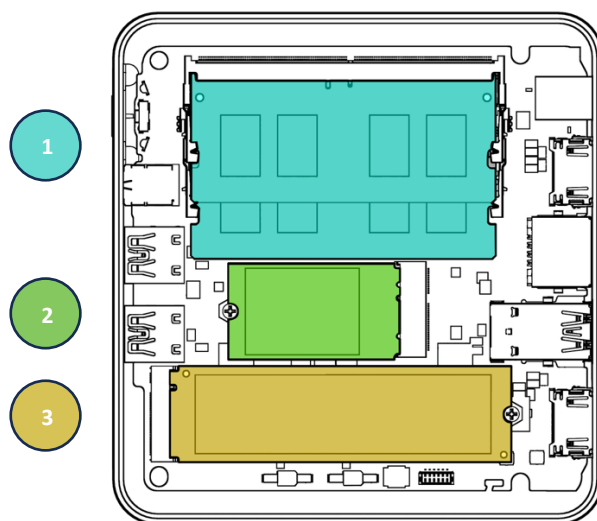
Numbers	Description
4	2 x HDMI 2.1
5	1 x USB 3.2 Gen2 Type-A 1 x USB 2.0 Gen2 Type-A
6	1 x RJ 45 Ethernet LAN (2.5G)
7	DC Jack
8	2 x USB 4.0 Type-C (with PD 3.0 and support DP 1.4a display output)

2-3 Inside View

To access inside for the M.2 PCIe slots expansions and DDR5 SO-DIMM memory slots, magnetic TOP cover removal is required by using a pry tool or by hand without any tools.



Once the TOP cover is removed, inside view of the SAPPHIRE EDGE AI™ 300 Series.



Numbers	Description
1	DDR5 SO-DIMM Slots (Dual Channel)
2	M.2 PCIe SSD Slot (2242)
3	M.2 PCIe SSD Slot (2280)



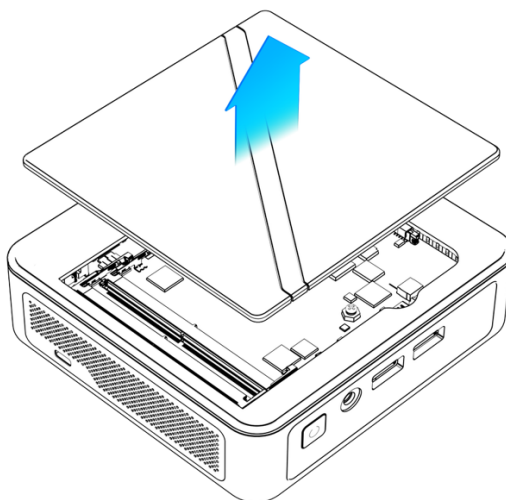
DDR5 SO-DIMM Memory are not included in the system
M.2 PCIe SSD (2242 and 2280) are not included in the system

Chapter 3 M.2 PCIe SSD and DDR5 SO-DIMM Memory Installation

In this chapter, steps are described how to install the key components, system memory and system storages.

3-1 Removal of Top Cover

Magnetic TOP cover is removed simply by lifting the top cover either with a help of a pry tool or by hand without any tools.



3-2 Installation of M.2 PCIe SSD Modules

Before installing the M.2 PCIe SSD into the system, please verify the following items before processing the installation.

1. Please identify your M.2 PCIe SSD is a 2280 or 2242 form factor
2. Please check whether your SSD comes with thermal pads while purchasing, if not, please prepare thermal pads to make sure SSD's heat dissipation

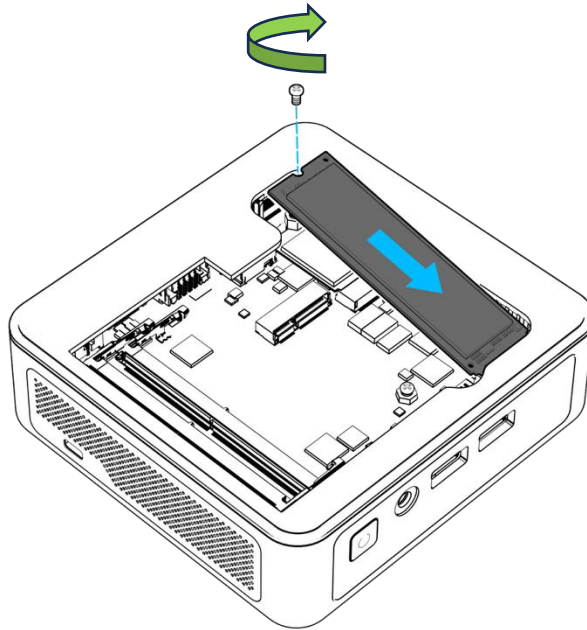


The thermal pad will be in contact with the SSD and the system TOP cover to provide the best cooling for the SSDs

2-3-1 How to install the M.2 PCIe SSD (Type 2280)

Follow the steps below to install the M.2 PCIe 2280 SSD:

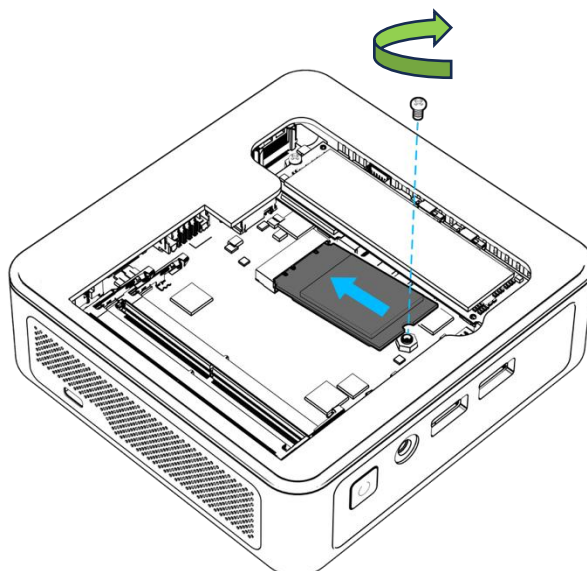
1. Identify the M.2 slot inside the system
2. Carefully insert the M.2 PCIe 2280 SSD into the slot at an angle (~ 30-degree angle)
3. Tighten the screw to secure the M.2 PCIe 2280 SSD to the system



2-3-2 3-2-2 How to install the M.2 PCIe SSD (Type 2242)

Follow the steps below to install the M.2 PCIe 2242 SSD:

1. Identify the M.2 slot inside the system
2. Carefully insert the M.2 PCIe 2242 SSD into the slot at an angle (~ 30-degree angle)
3. Tighten the screw to secure the M.2 PCIe 2242 SSD to the system



3-3 Installation of DDR5 SO-DIMM Memory Modules

Before installing the M.2 PCIe SSD into the system, please verify the following items before processing the installation.

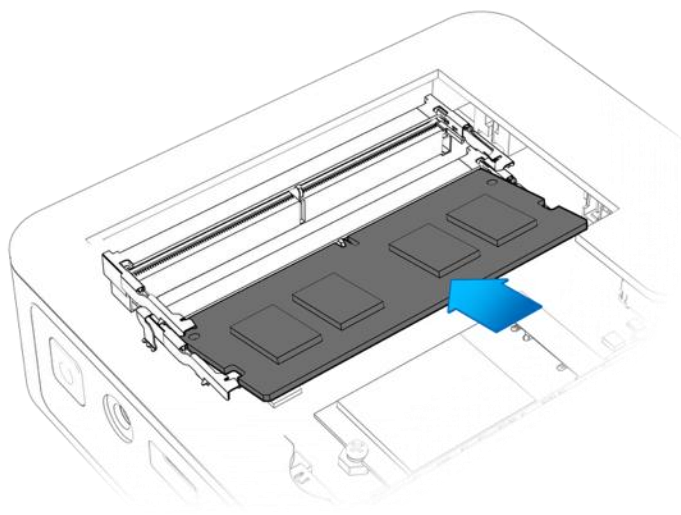
1. Verify the memory modules are with SO-DIMM (Small Outline Dual In-line Memory Module) form factor.
2. To support dual channel configuration, verify and make sure you always have an identical (same brand, same size, same speed and chip-type) DDR5 SO-DIMM pairs to ensure the most compatible and optimal performance.



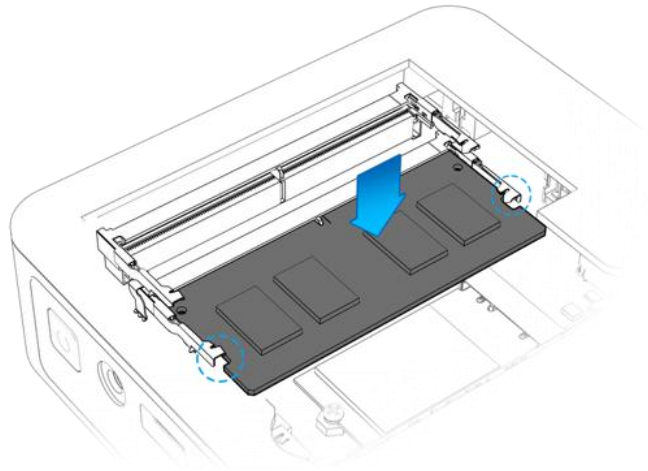
- The system supports up to 96GB memory (2 x 48GB DDR5 SO-DIMM, Dual Channel)
- The system supports up to 5600 MHz maximum speed
- The SO-DIMM memory will **ONLY** fit in one correct orientation. If with incorrect orientation will cause permanent damage to both SO-DIMM memory and motherboard (if memory is not able to be installed, please **DO NOT FORCE** the SO-DIMM into the slot)

Follow the steps below to install the DDR5 SO-DIMM memory modules:

1. Identify the SO-DIMM memory module slots inside the system
2. Carefully insert the SO-DIMM memory modules into the slot at an angle (~ 30-degree angle)

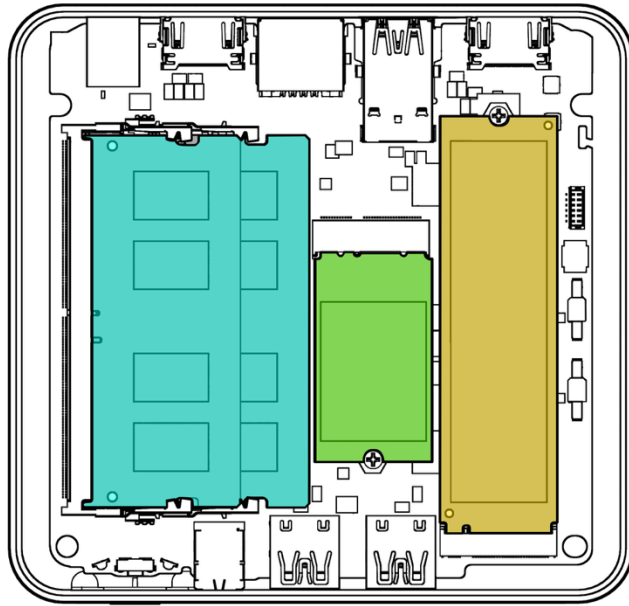


3. Push down the SO-DIMM modules until they are snap into place

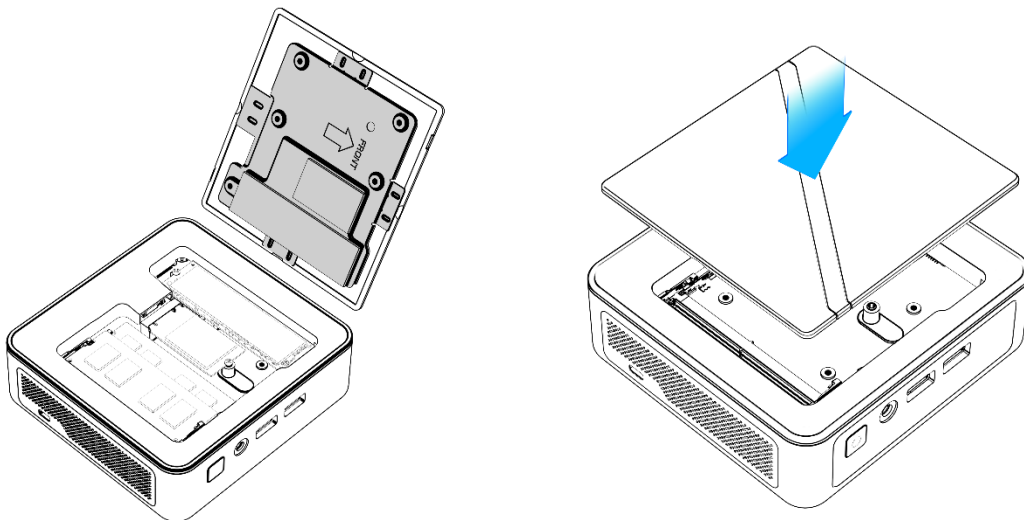


Chapter 4 Closing the System

1. Make sure the SSD and Memory are correctly and securely installed in the system.



2. On the inner side of the TOP cover has a word marked "**FRONT**". Please turn the top cover with the "**FRONT**" mark facing towards the front side of the system then place the Magnetic TOP cover.



[illegible]