



Predator P05-655 User's Manual

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Desktop Computer Covers:
Tower models
This revision: APR. 2024 V1.01



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Upgrading your Computer

In this section, you will find:

- Instructions on how to replace a hardware component

1. UPGRADING YOUR COMPUTER

Installation precautions

Before you install any computer component, we recommend that you read the following sections. These sections contain important ESD precautions along with pre-installation and post-installation instructions.

ESD precautions

Electrostatic discharge (ESD) can damage your processor, disk drives, expansion boards, and other components.

Always observe the following precautions before you install a computer component:

1. Do not remove a component from its protective packaging until you are ready to install it.
2. Wear a wrist grounding strap and attach it to a metal part of the computer before handling components. If a wrist strap is not available, maintain contact with the computer throughout any procedure requiring ESD protection.

Required tools

In performing the component replacement process, you will need the following tools:

- Philips screwdriver
- Hex screwdriver
- Flat screwdriver
- Scissors



Note

The screws for the different components vary in size. During the disassembly process, group the screws with their corresponding components to avoid mismatches when putting back the components.

Pre-installation instructions

Always observe the following before you install any component:

1. Make sure that the ODD and card reader slot is empty.
2. Turn off the power to the computer and all peripherals.
3. Unplug the power cord from the computer.
4. Unplug the network cable and all connected peripheral devices from the computer.
5. Place the computer on a flat, steady surface.



WARNING: Hot surface. Do not touch.

6. Open your computer according to the instructions on removing the left side system cover on page 7 and removing the right side system cover on page 9.
7. See the following sections for specific instructions on the component you wish to install.



Warning

Not turning off the computer properly before you start installing the components may cause serious damage. Do not attempt the procedures described in the following sections unless you are a qualified service technician.

Post-installation instructions

Observe the following after installing a computer component:

1. See to it that the components are installed according to the step-by-step instructions in their respective sections.
2. Replace any expansion boards or peripherals that you removed earlier.
3. Replace the system covers. See Installing the left side system cover on page 8 and installing the right side system cover on page 10.
4. Connect the necessary cables.
5. Turn on your computer.

System Upgrade

Removing the Left side system cover

1. Before you proceed, make sure that you have turned off your computer and all peripherals connected to it. Read the Pre- installation instructions on page 6.
2. Remove the two screws that secure the system cover to the computer.
3. Slide the cover toward the back of the computer and pull away from the top of the computer.



4. Set the cover aside for re-installation later.

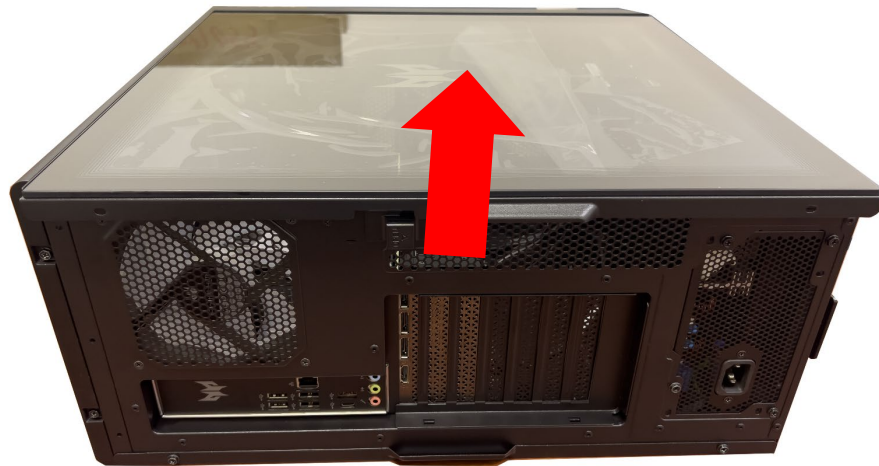


Note

When disassembling, the machine must lie flat and not upright

Installing the Left side system cover

1. Align the cover hook to the sides of the computer and slide the cover toward the front of the computer.
2. Secure the cover with two screws.



3. Observe the Post-installation instructions on page 6.

Removing the Right side system cover

1. Before you proceed, make sure that you have turned off your computer and all peripherals connected to it. Read the Pre- installation instructions on page 6.
2. Remove the two screws that secure the system cover to the computer.
3. Slide the cover toward the back of the computer and pull away from the side of the computer.



4. Set the cover aside for re-installation later.

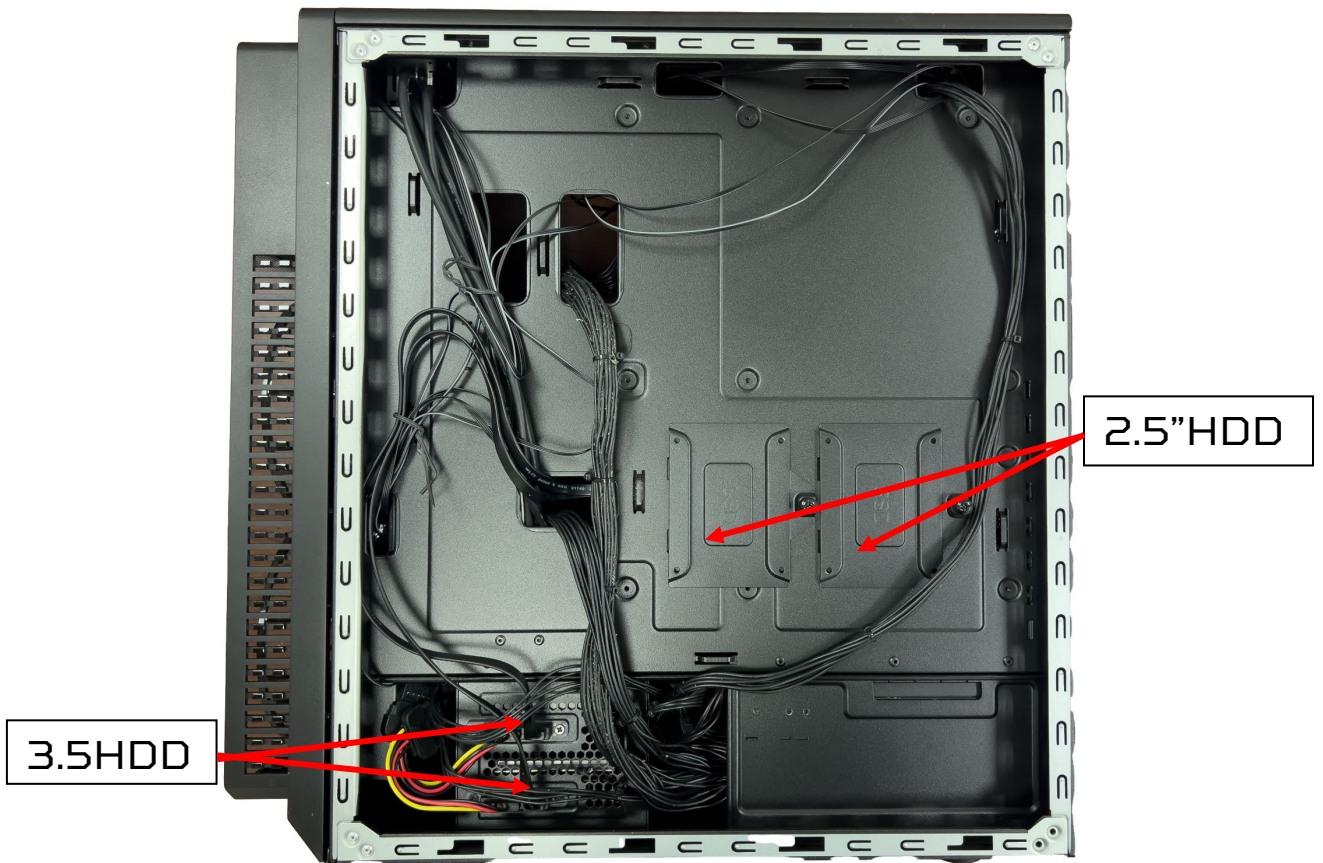
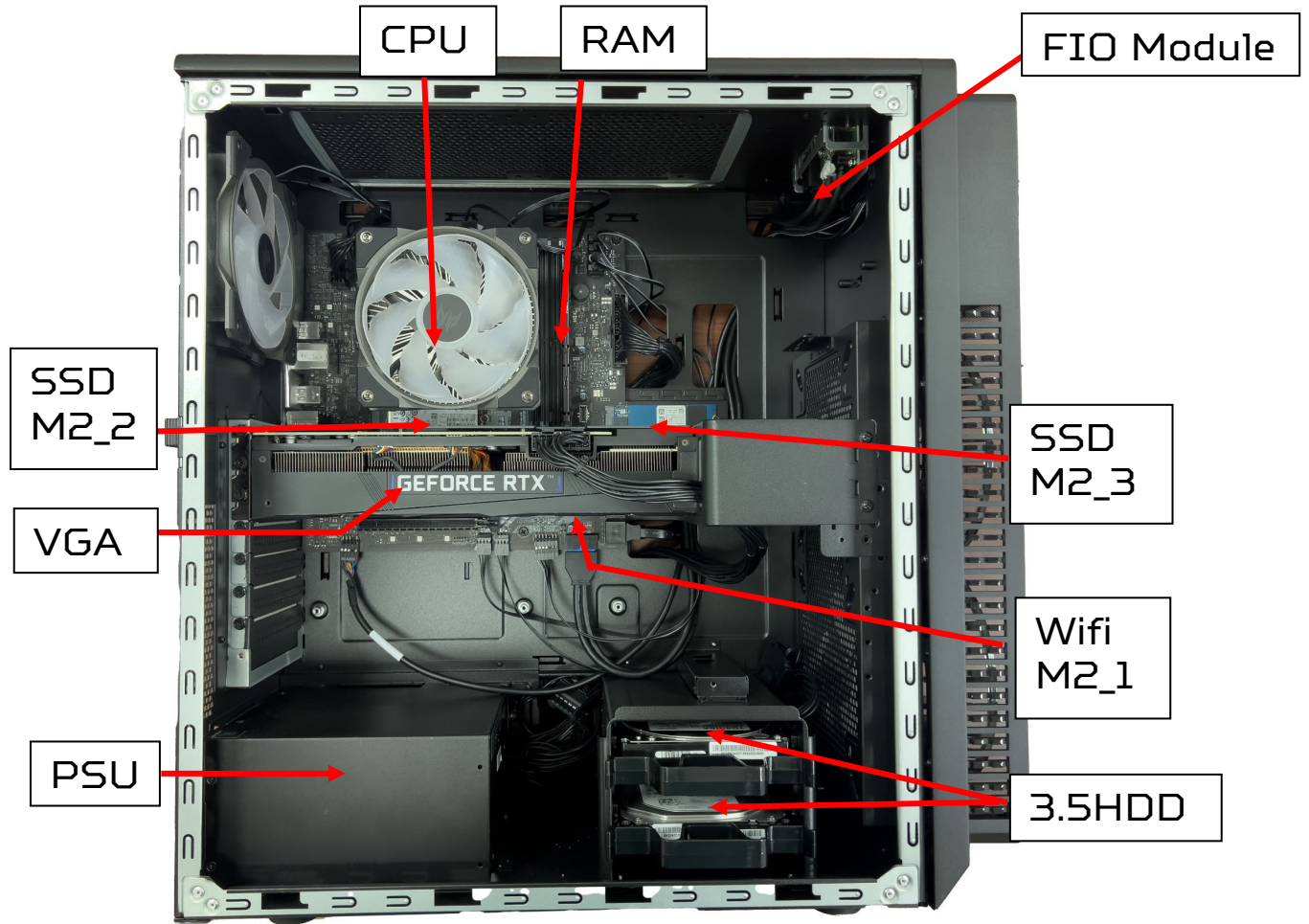
Installing the Right side system cover

1. Align the cover to the sides of the computer and slide the cover toward the front of the computer.
2. Secure the cover with two screws.



3. Observe the Post-installation instructions on page 6

System Layout

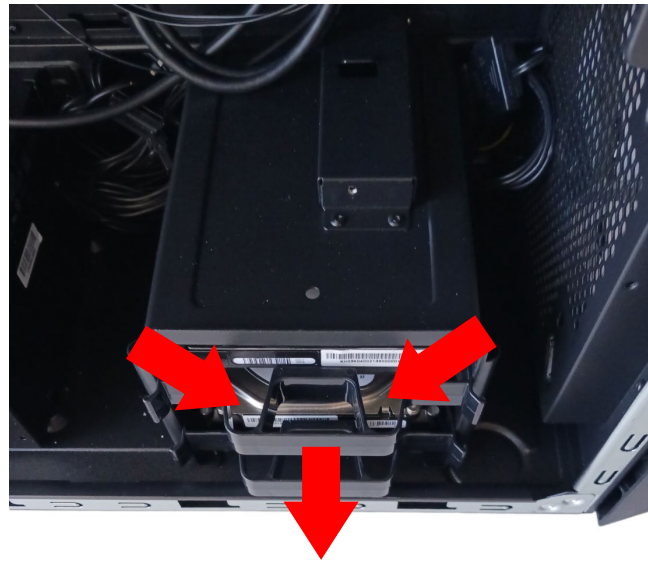


Hard drives

The computer supports installation of two 3.5-inch SATA hard drives in the internal HDD cage.

Removing the 3.5-inch hard drives

1. Perform Pre-installation instructions on page 6.
2. Pull black rack out from HDD cage and take it off.

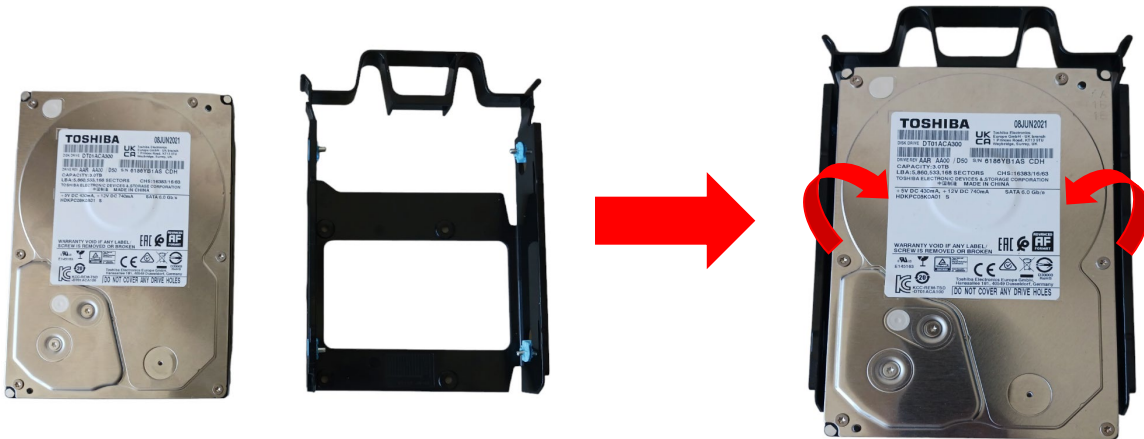


3. Remove the hard drives from the rack.

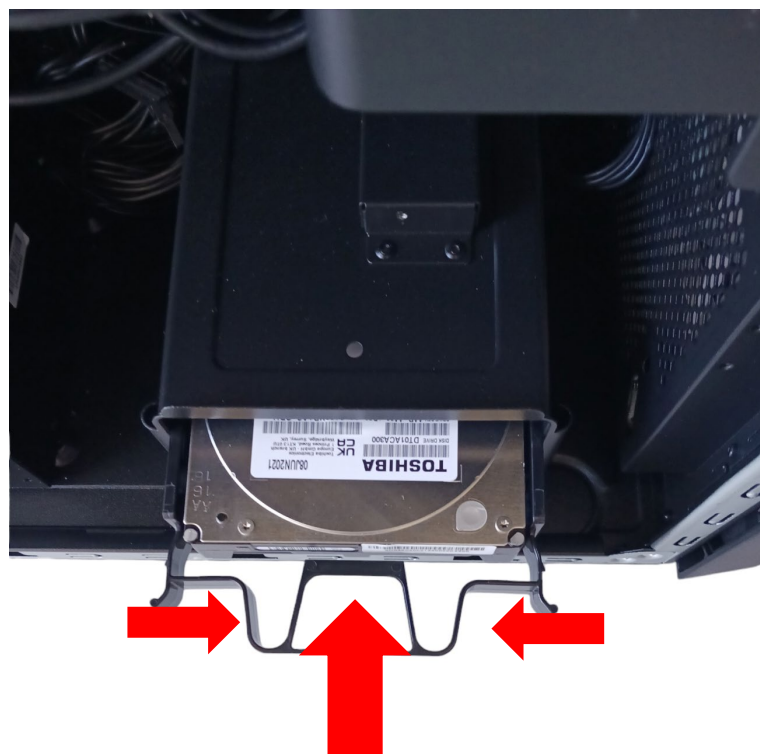


Installing the 3.5-inch hard drives

1. Remove the new hard drive from their packaging.
2. Insert the new hard drive into the black rack.



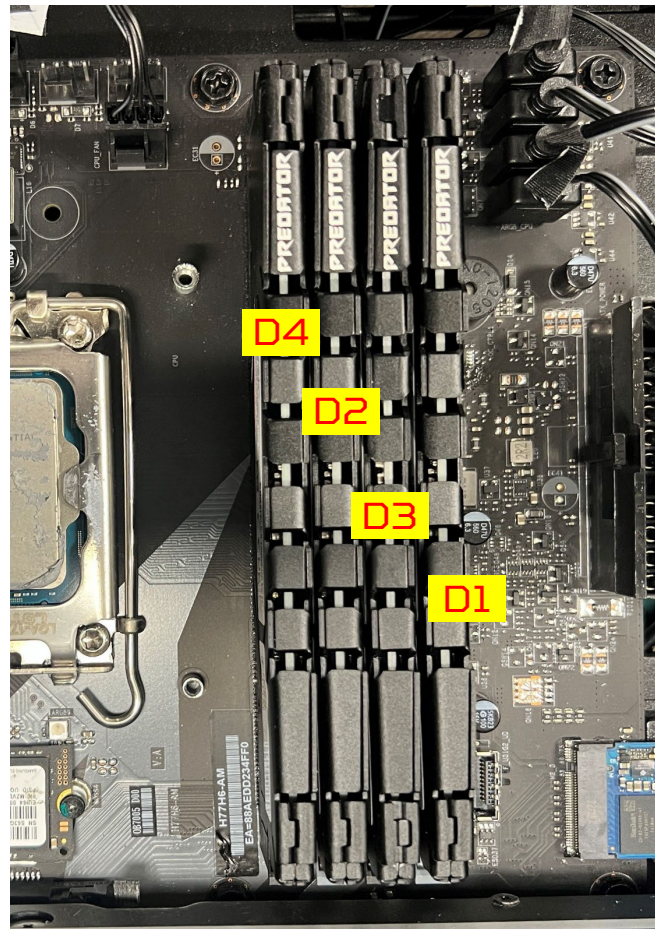
3. Insert black rack into HDD cage.



4. Observe the Post-installation instructions on page 6

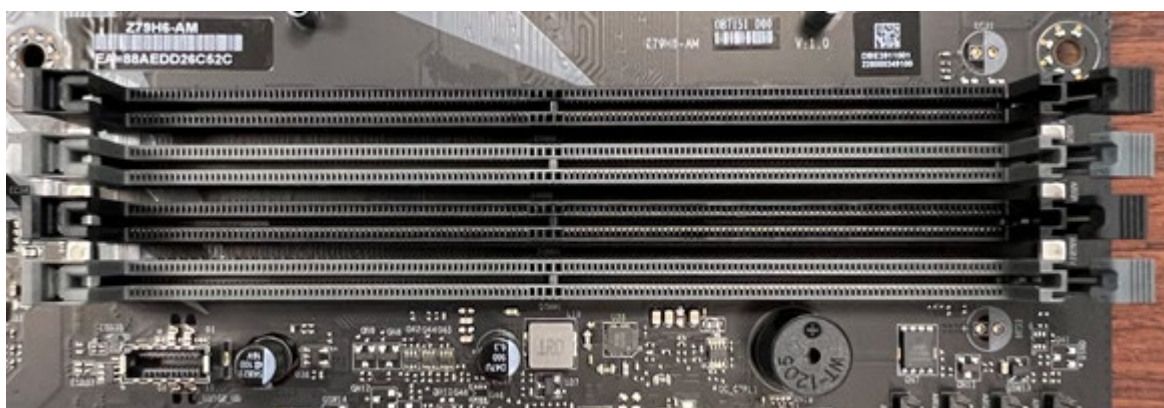
Memory

The computer has four DDR5 U-DIMM slots that support up to 64GB maximum system memory.



Memory configuration guidelines

- To ensure data integrity, use only Acer-approved DDR5 memory modules.
- Memory modules must be installed starting with DIMM1 slot.
- Always handle memory modules by its edges.
- When installing memory modules, populate the DIMM slots according to the table below.



DIMM 4
DIMM 2
DIMM 3
DIMM 1

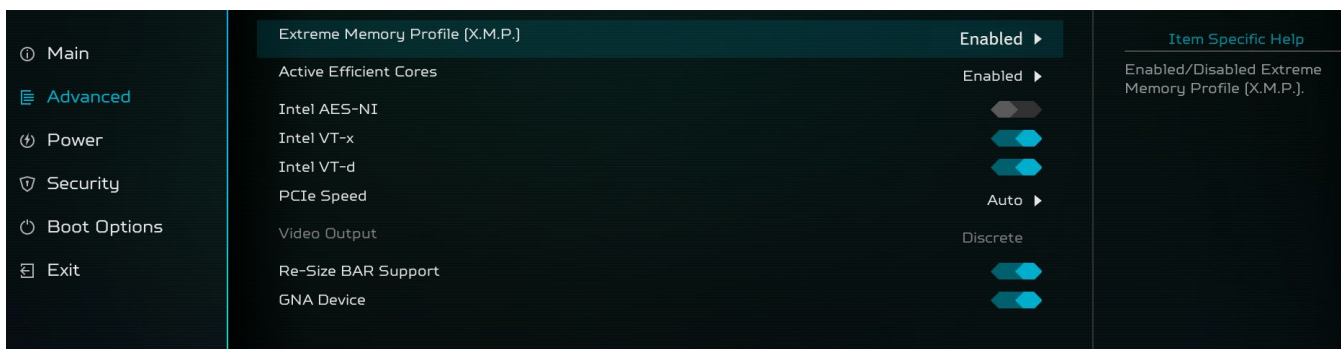
| Rule | DIMM1 | DIMM3 | DIMM2 | DIMM4 |
|--|-------|-------|-------|-------|
| Memory A>B [Different capacity value] | A | / | / | / |
| | A | / | A | / |
| | A | / | B | / |
| | A | A | A | / |
| | A | B | A | / |
| | A | A | A | A |
| | A | B | A | B |

| Size | DIMM1 | DIMM3 | DIMM2 | DIMM4 |
|------|-------|-------|-------|-------|
| 8GB | 8GB | N/A | N/A | N/A |
| 16GB | 16GB | N/A | N/A | N/A |
| 16GB | 8GB | N/A | 8GB | N/A |
| 32GB | 16GB | N/A | 16GB | N/A |
| 24GB | 8GB | 8GB | 8GB | N/A |
| 32GB | 8GB | 8GB | 8GB | 8GB |
| 48GB | 16GB | 16GB | 16GB | N/A |
| 64GB | 16GB | 16GB | 16GB | 16GB |



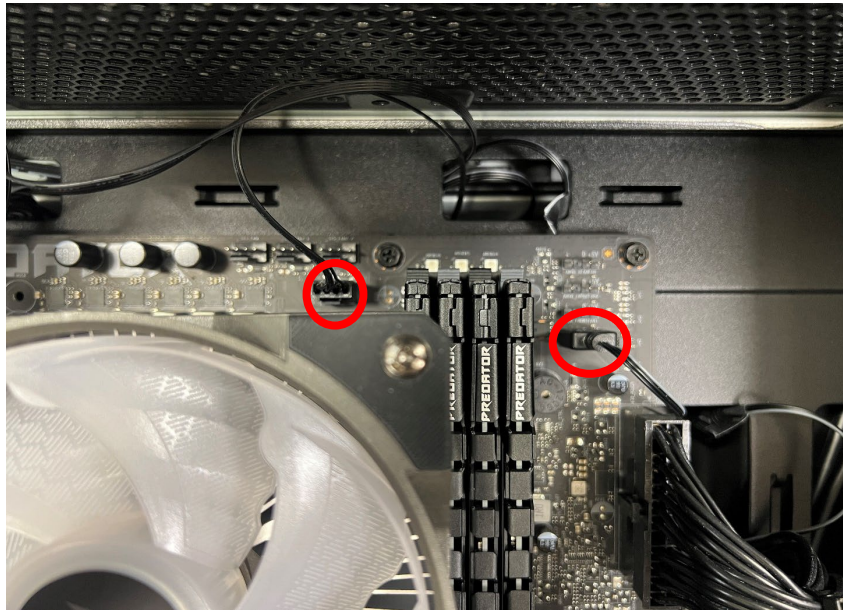
Note

1. Follow Intel’s SPEC, In the combination of installed memory, as long as DIMM3 or DIMM4 is used, the memory frequency will only support 4000MHz, whether plugging in memory is 4800MHz or higher.
2. Since ADL platform limitation, It is not recommended to mix 1R and 2R memory
3. Install the X.M.P memory and you would like to enabled X.M.P function, please manual to change the Extreme Memory Profile[X.M.P] item from “Disabled” to “Enabled” in BIOS setup menu.



Removing a memory module

1. Perform Pre-installation instructions on page 6.
2. Remove CPU fan cable and CPU fan ARGB cable.



3. Remove four screws for CPU cooler fan and take it off.

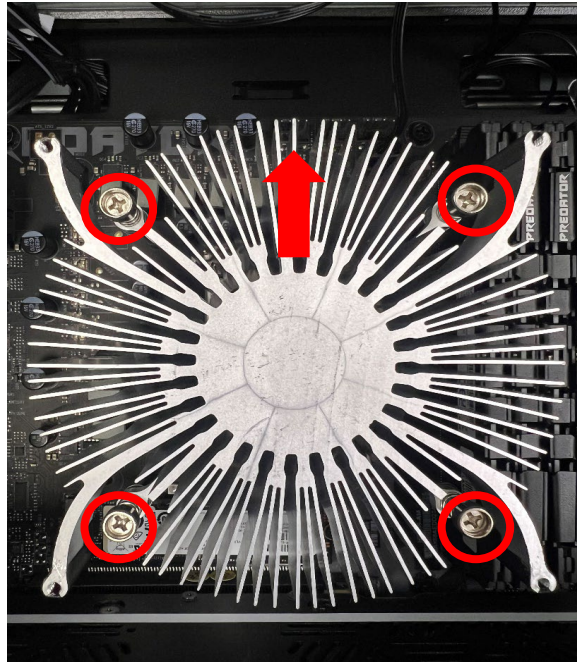


 **Note**

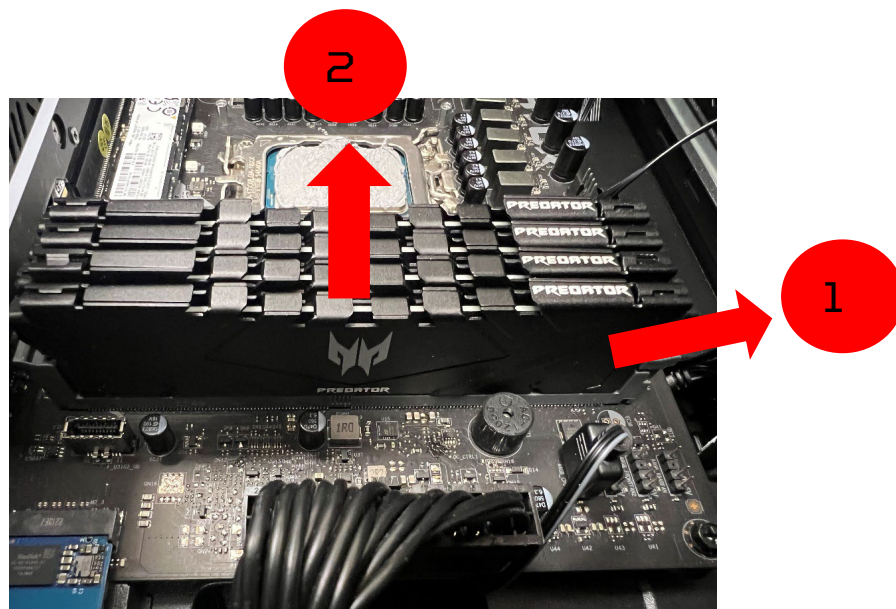
Once the fan is removed, if you want to re-install it back, you have to apply the thermal grease evenly

Recommended grease part number: TC-5888

4. Remove four screws for CPU cooler and take it off.



5. Press outward the holding clips on both sides of the DIMM slot outward to release the memory module (1).
6. Gently pull the memory module upward to remove it from the DIMM slot (2).



7. Repeat steps 2~3 to remove the other memory modules.

Installing a memory module



Note

DIMM slots on the mainboard must be installed only in certain configurations. Numbers next to DIMM slots correspond to installation sequence.

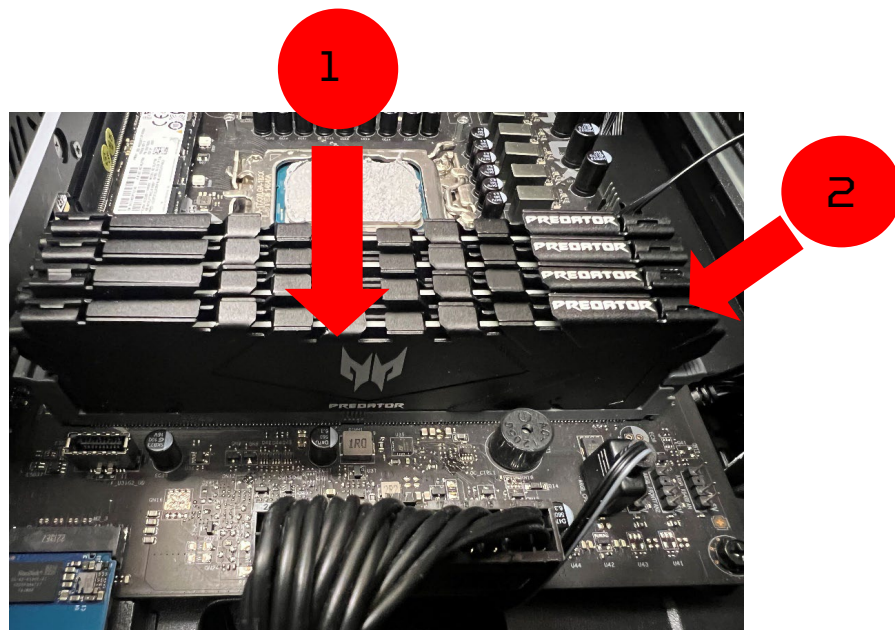
Be sure to install the memory module in DIMM1 slot followed by DIMM2 slot.

If you would like to upgrade memory, please take off CPU cooler first.

1. Select an empty DIMM slot.
2. Remove the new memory module from its packaging, handling it by the edges.
3. Align then insert the memory module into the DIMM slot (1).
4. Insert the memory to the slot until the retaining clips snap inward (2).

The module is keyed so it can only be inserted in one direction. If the module does not fit, make sure that the notch in the module lines up with the tab in the memory slot.

5. Repeat steps 1~4 to install the other memory modules.



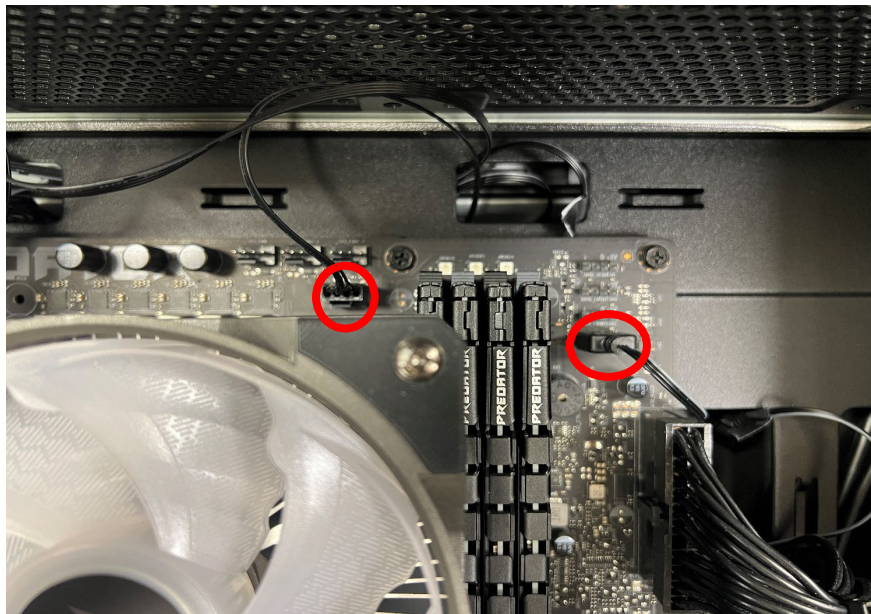
6. Observe the Post-installation instructions on page 6.

Graphics board

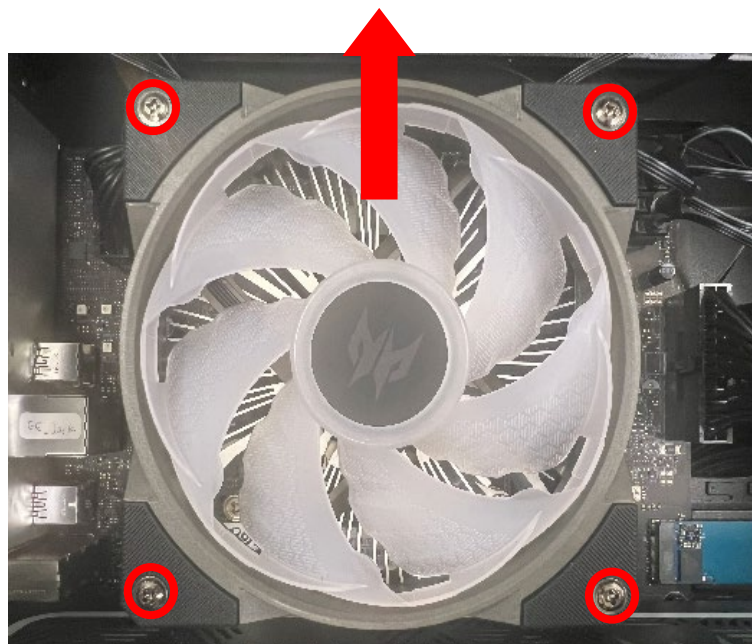
The computer contains one or two Graphics board installed in the PCIe x16 slots. The detail configuration will be differed by different models.

Removing the Graphics board

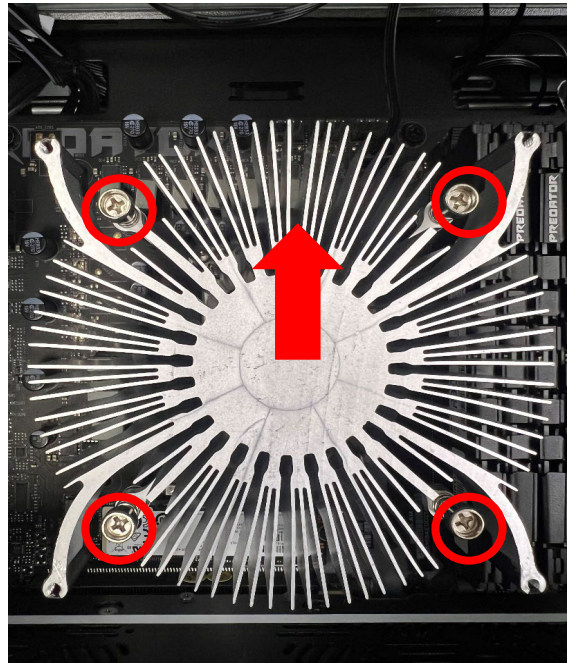
1. Perform Pre-installation instructions on page 6.
2. Remove four screws for CPU fan cable and CPU fan ARGB cable.



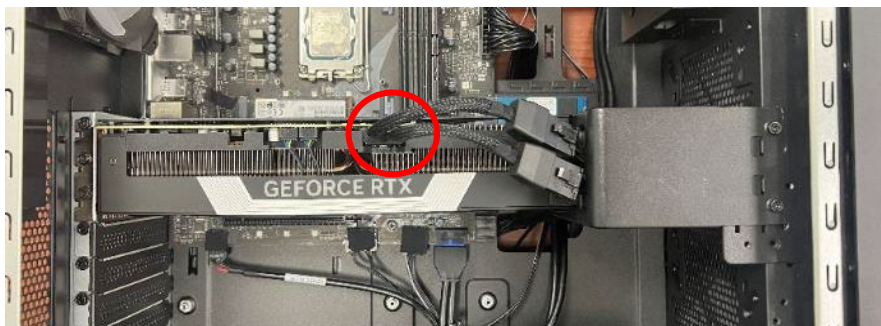
3. Remove four screws for CPU cooler fan and take it off.



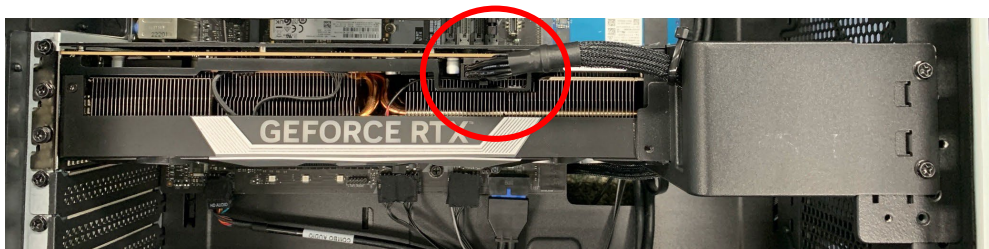
4. Remove four screws for CPU cooler and take it off.



5. Disconnect the power cables from the Graphics board



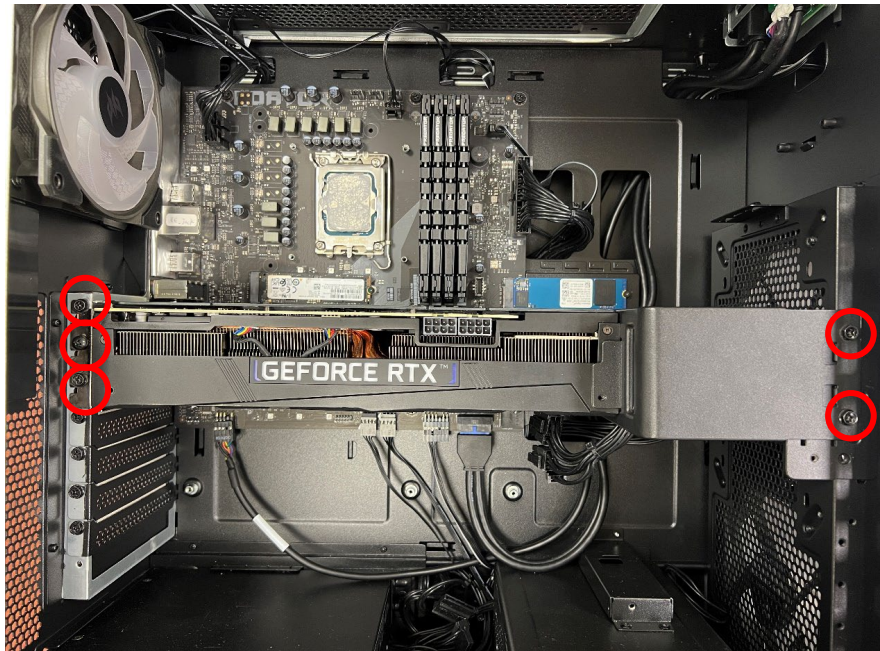
RTX4070Ti (with Power cable) graphics board



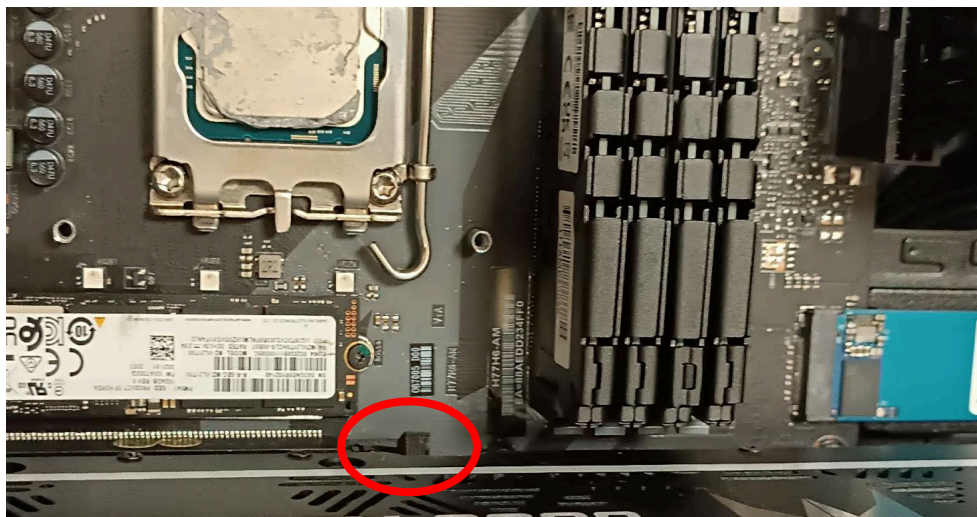
RTX4080 graphics board



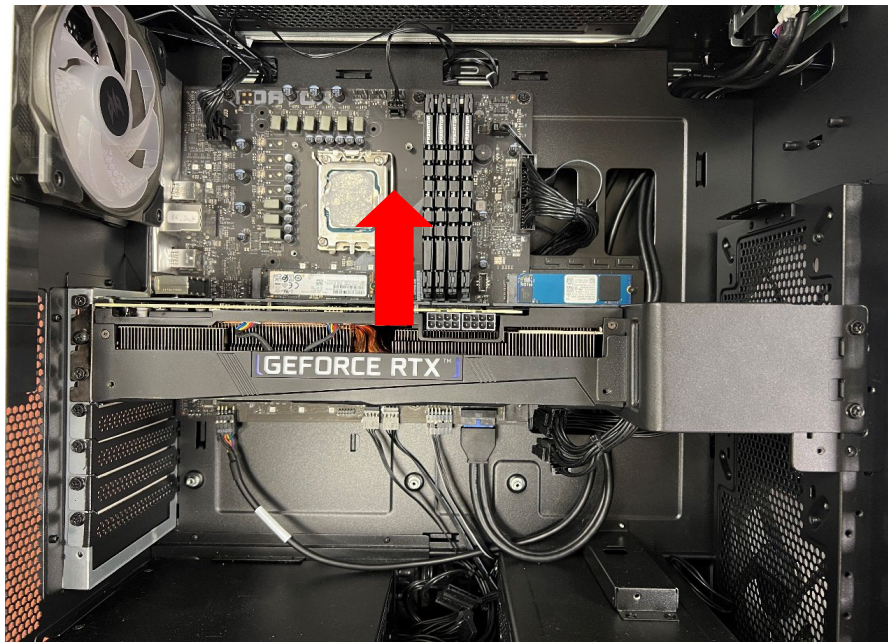
6. Remove the screws that secure the Graphics board to the chassis



7. Release the latch that secures the Graphics board to the mainboard.



8. Detach the Graphics board from the PCIe x16 slot



9. Remove the screws that secure the Graphics board to the VGA Holder Bracket.



RTX4070 graphics board



RTX4080 / 4070Ti graphics board

Installing the Graphics board

1. Remove the new Graphics board from its packaging.
2. Fix Graphics board on VGA Holder Bracket with screws



RTX4070 graphics board



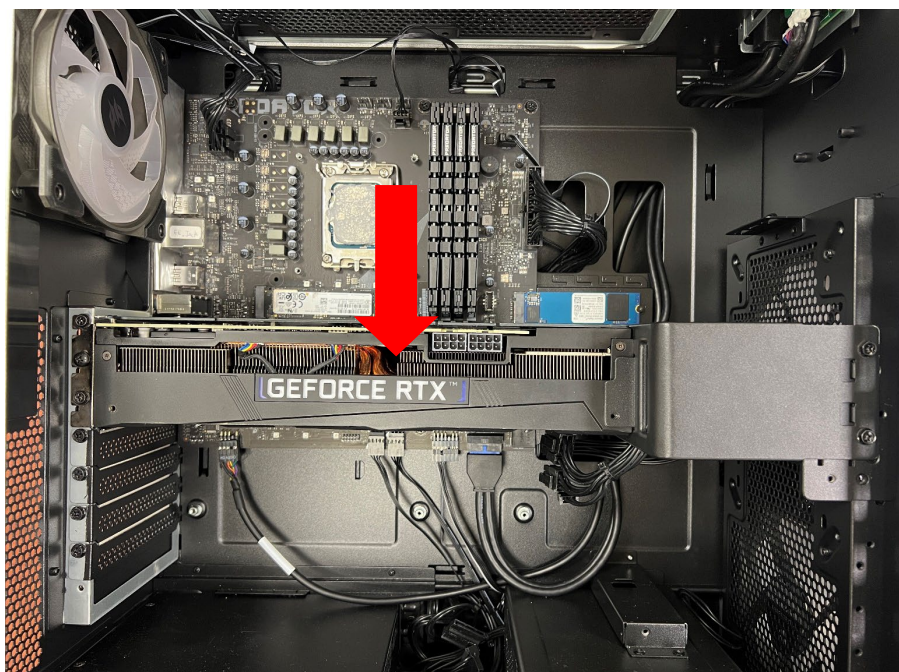
RTX4080 / 4070Ti graphics board

3. Insert the Graphics board into the PCIe x16 slot and press it down until it latches into place.

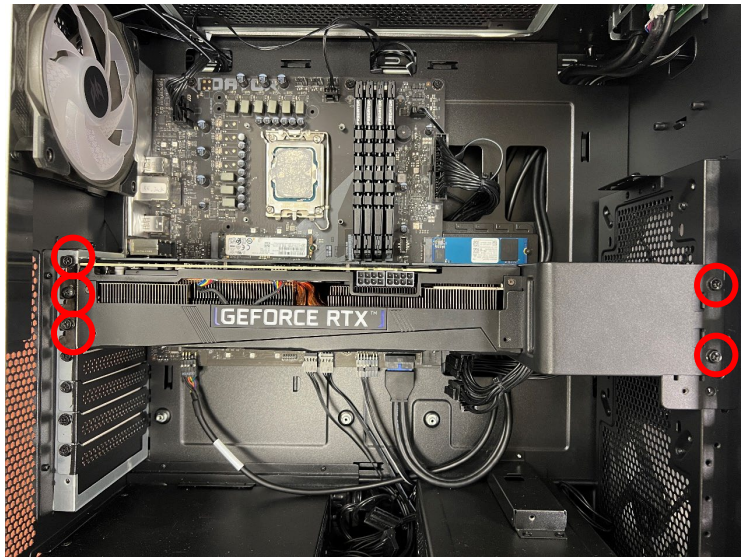


Note

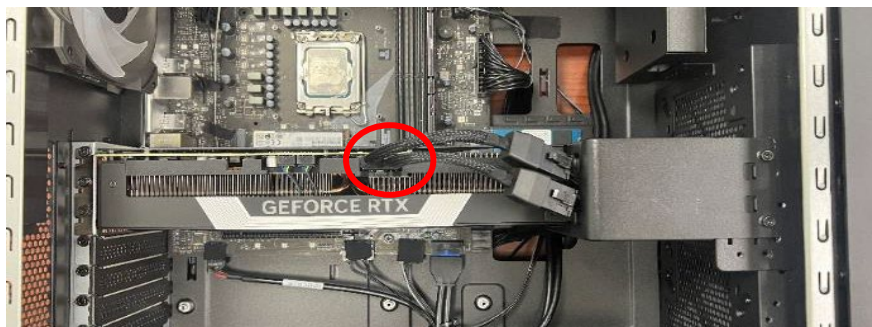
To replace/upgrade Graphics board, please check the specification of Graphics board & power supply first in order to make sure the Graphics board and power supply could work.



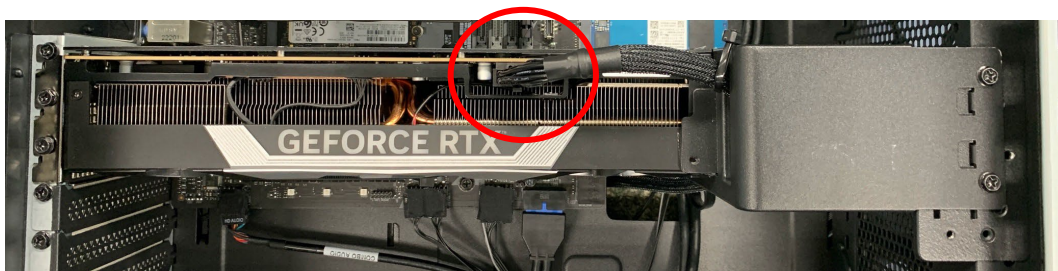
4. Secure the Graphics board with screws.



5. Connect the power cables to the Graphics board.



RTX4070Ti (with Power cable) graphics board



RTX4080 graphics board



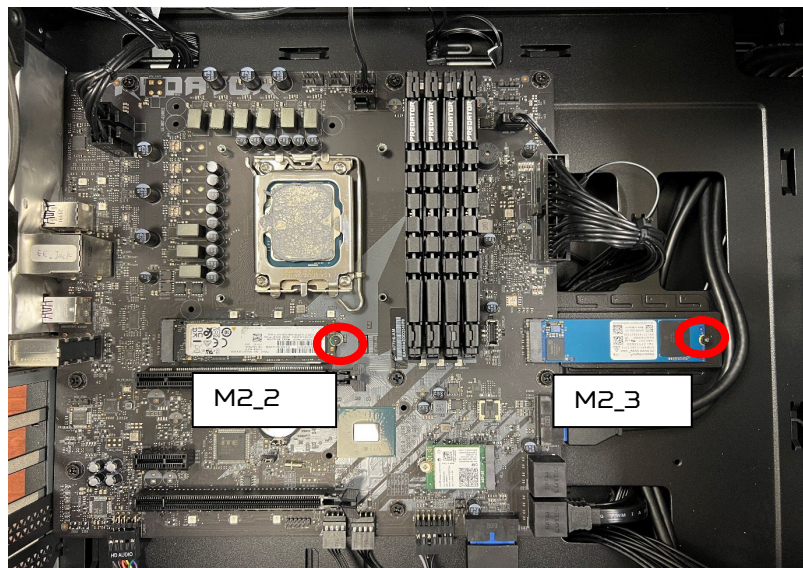
6. Observe the Post-installation instructions on page 6

M.2 SSD module

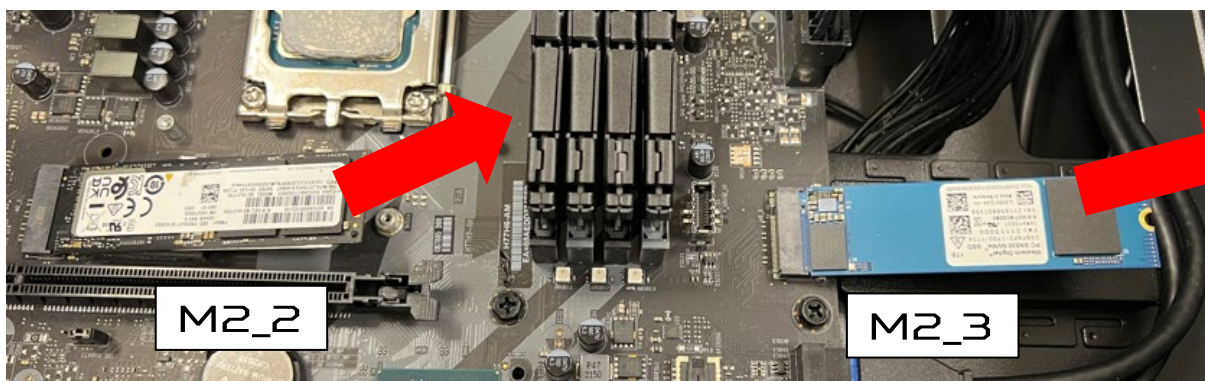
The computer contains M.2 SSD module(s) installed in the M.2 PCIe slot.

Removing the M.2 SSD module

1. Perform Pre-installation instructions on page 6.
2. Remove the Graphics board. See Removing the Graphics board.
3. Remove the screw that secures the M.2 SSD module from the mainboard.

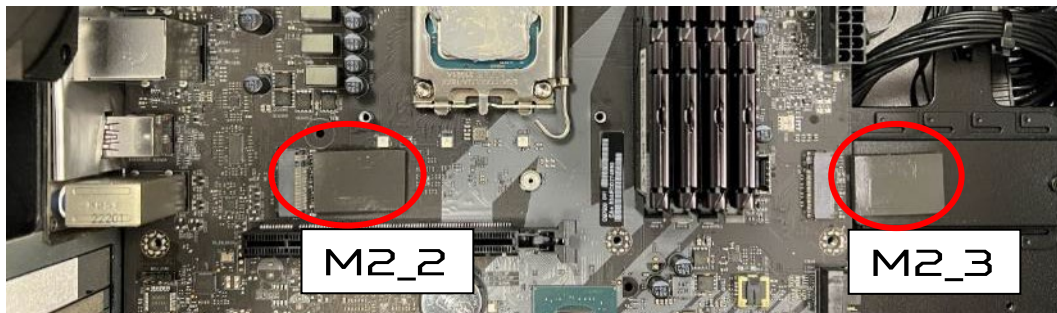


4. Detach the M.2 SSD module from the mainboard.



Installing the M.2 SSD module

1. Remove the new M.2 SSD module from its packaging.
2. Positioning M.2 SSD thermal pad on MB.

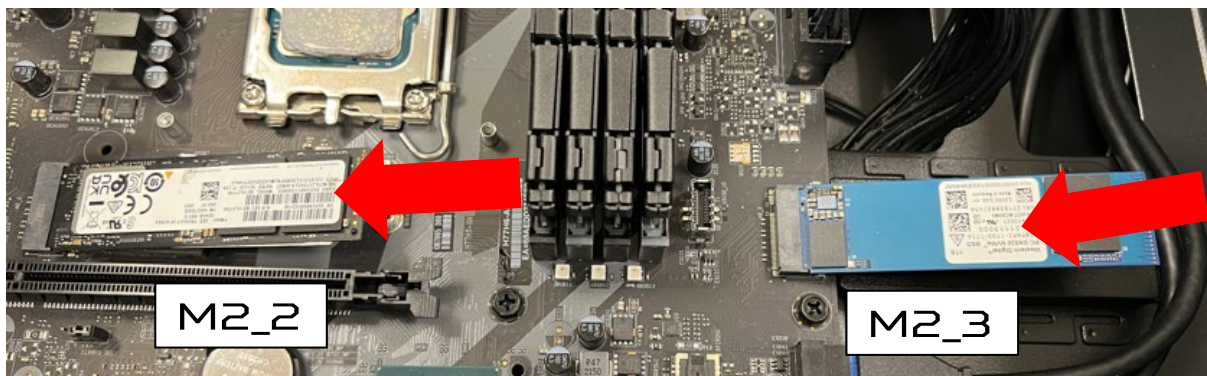


3. Insert the M.2 SSD module into its slot in the mainboard.

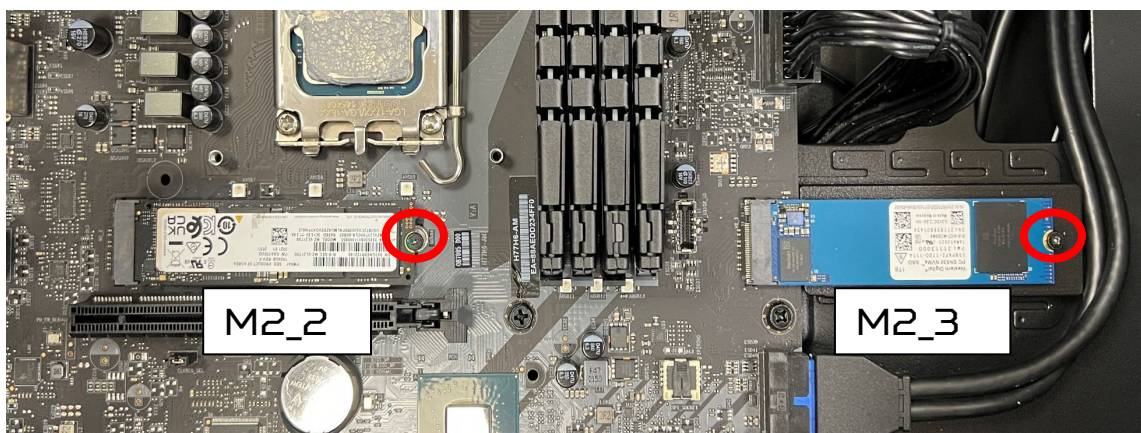


Note

SSD (Gen4) must be first install on M2_2 slot.



4. Secure the M.2 SSD and thermal module with screws.

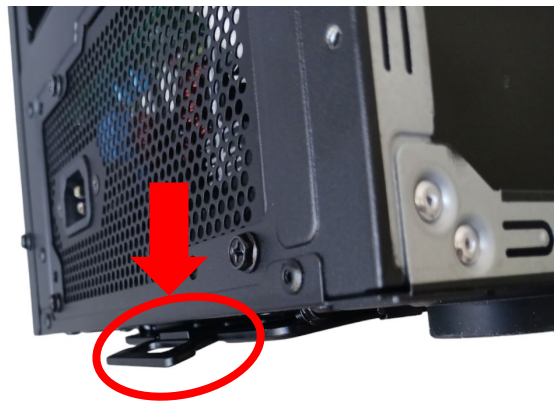
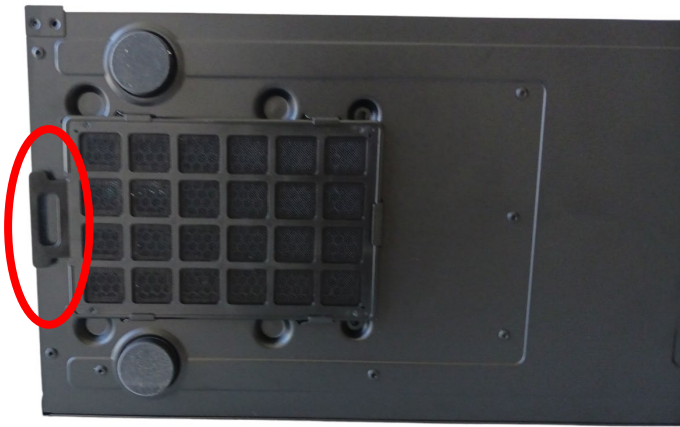


5. Replace the Graphics board. See Installing the Graphics board.
6. Observe the Post-installation instructions on page 6.

Dust filter

Removing the Dust filter

1. Before you proceed, make sure that you have turned off your computer and all peripherals connected to it. Read the Pre- installation instructions on page 6.
2. Push Handle from Dust filter and take it off



Removing the Front Bezel

1. Remove the screws that the Front Bezel bottom and take it off.



Removing the Top Cover

1. Remove two screws and take it off.



PredatorSense

In this section, you will find:

- Introduction to the PredatorSense utility
- How to use PredatorSense

2. PREDATORSENSE

PredatorSense (DT) is an Acer proprietary utility to enhance the user experience of Gaming products on Microsoft Windows 11.

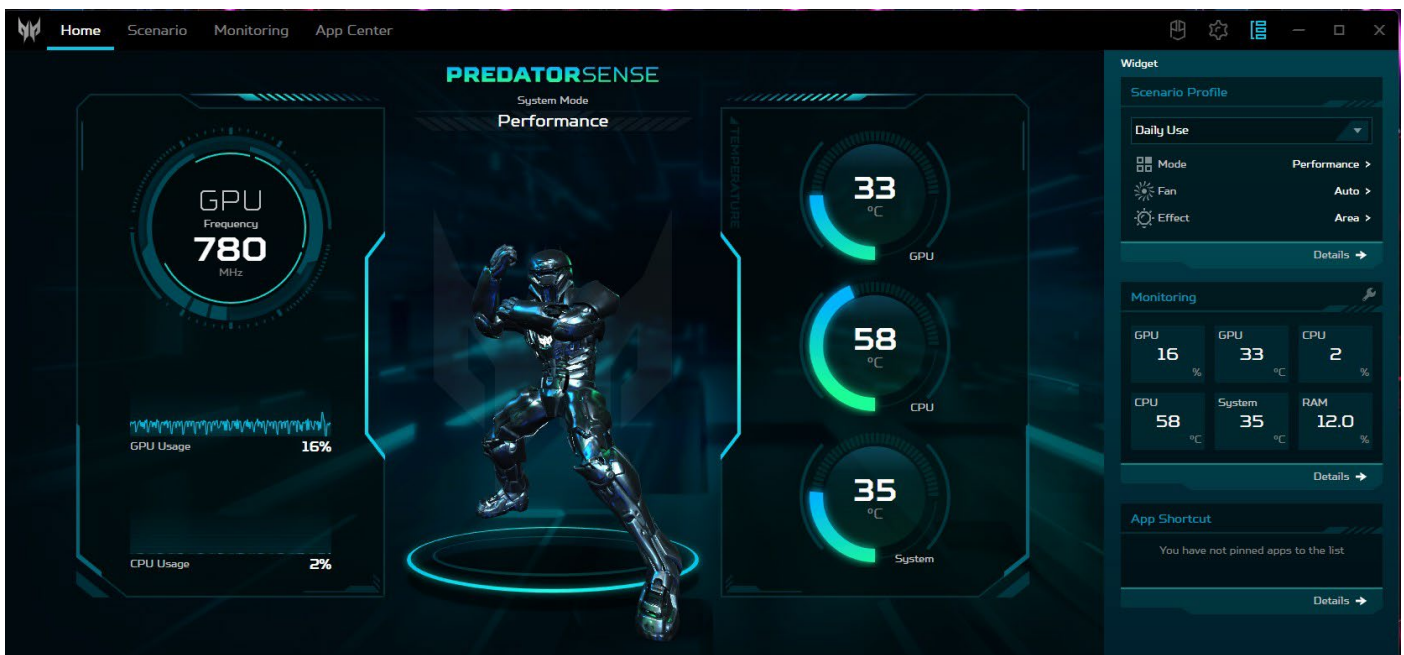
The central idea of this utility is to provide a user interface to easily control fan speed, LED chassis and also display system information

PredatorSense features

- Home
- Scenario
- Monitoring
- APP Center

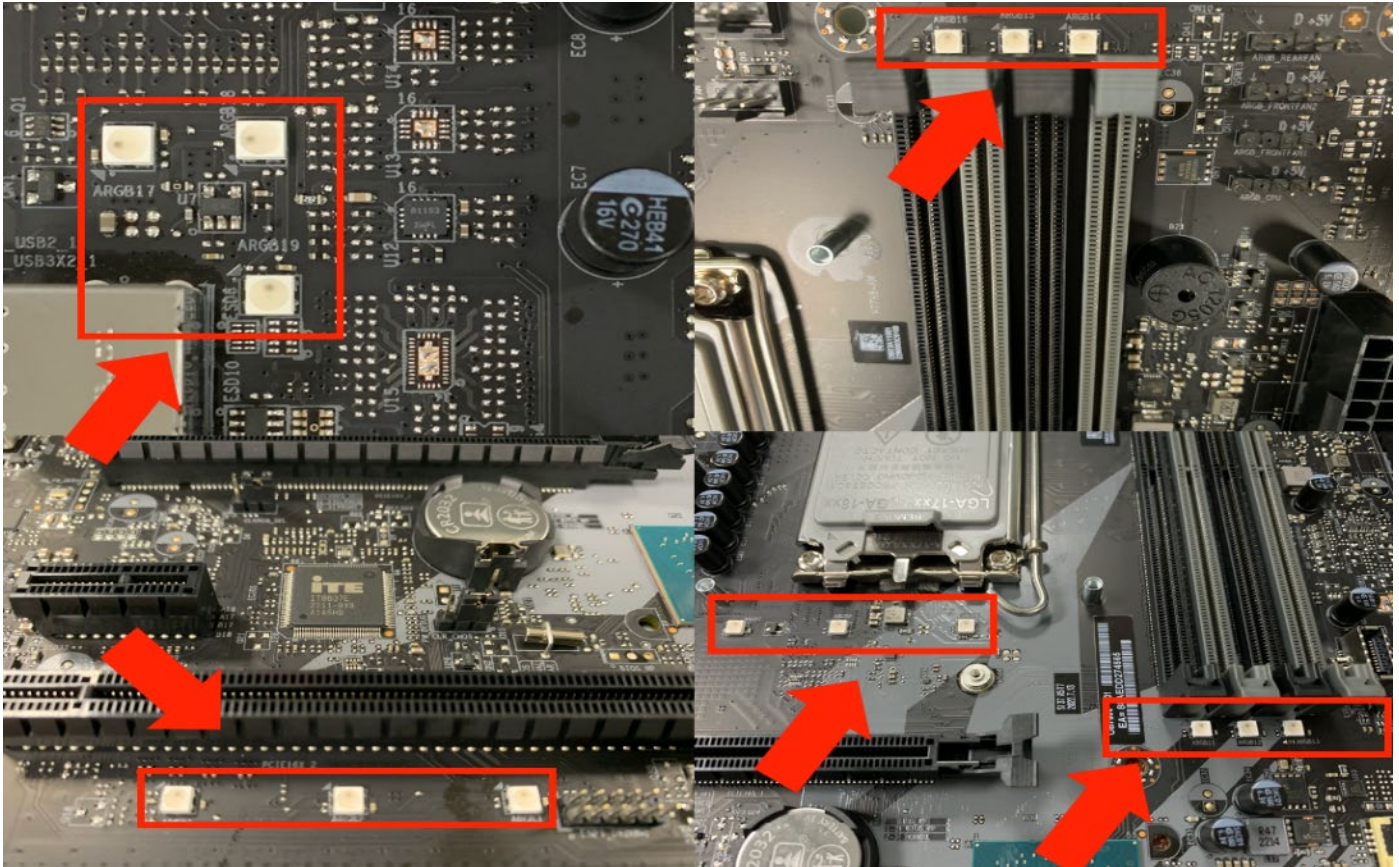
To set up the PredatorSense application (Windows 11):

1. From the Start menu, select **All apps**.
2. Select **PredatorSense**.



| Category | Description |
|------------|--|
| Home | <p>Provide overview of system information</p> <ul style="list-style-type: none"> • GPU frequency • GPU/CPU Usage • GPU/CPU/System temperature information |
| Scenario | <p>Provide control and adjustment for the Mode, Fan Control, Pulsar Lighting and Advanced Settings</p> <ul style="list-style-type: none"> • Mode: Quiet, Balanced, Performance for select • Fan Control: Auto, Max, Custom for select • Pulsar Lighting: Provide the two control LED method including Global and Area button • Advanced Settings: Acer TureHarmony function will including Shooter, RPG, Strategy, Movies, Voice, Automatic and Custom Audio for select. [Note] Acer TureHarmony support internal speaker and 3.5mm output devices only |
| Monitoring | <p>Provide 3 tabs for GPU and CPU and System.</p> <ul style="list-style-type: none"> • Temperature in C • Loading in % • Frequency in MHz • Download/Upload in Kbps of WIFI/Ethernet • Usage in GB of RAM |
| APP Center | <p>Provide a list of all APPs for user</p> |

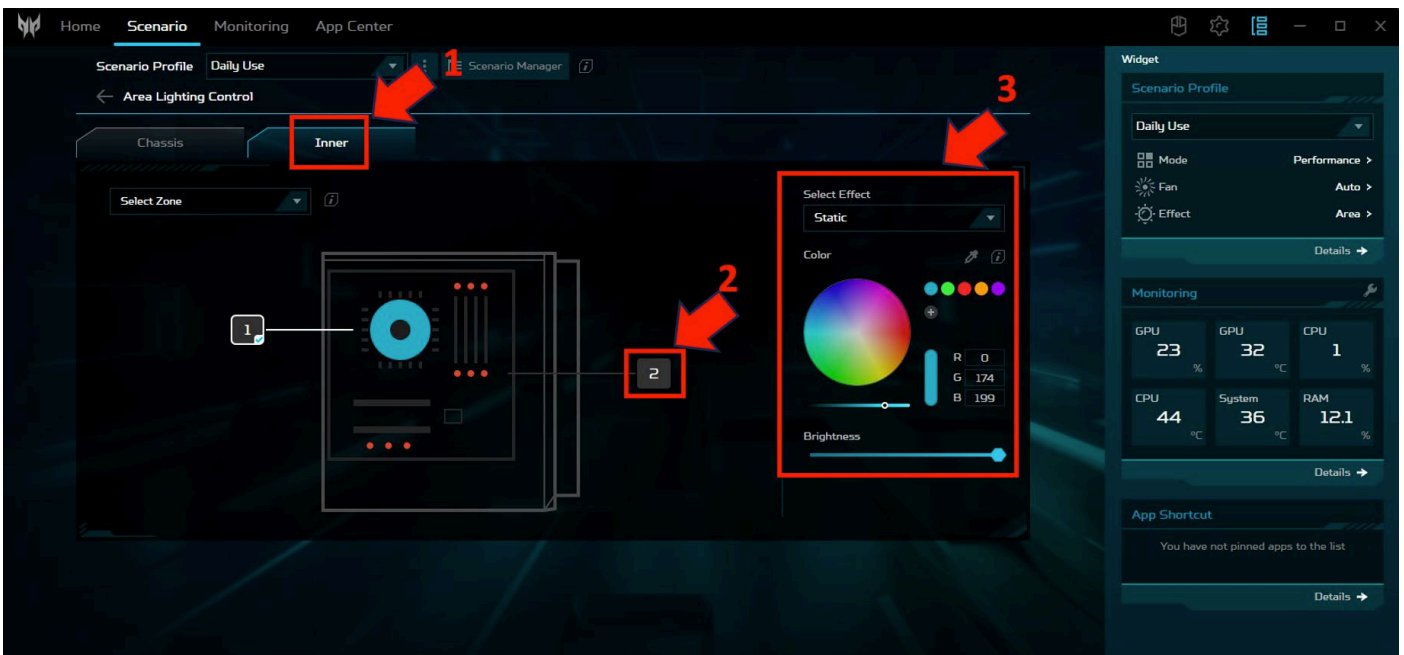
LED on Motherboard



Motherboard LED Settings

- Follow the below step to control the LED of Motherboard to change color or other function.

[Note] Select **2** is for Motherboard LED



If Memory w/LED Settings

- Follow the below step to control the LED of memory to change color or other function.

