



# Predator P03-640 User's Manual

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Desktop Computer Covers:  
Tower models  
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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

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## 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.
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

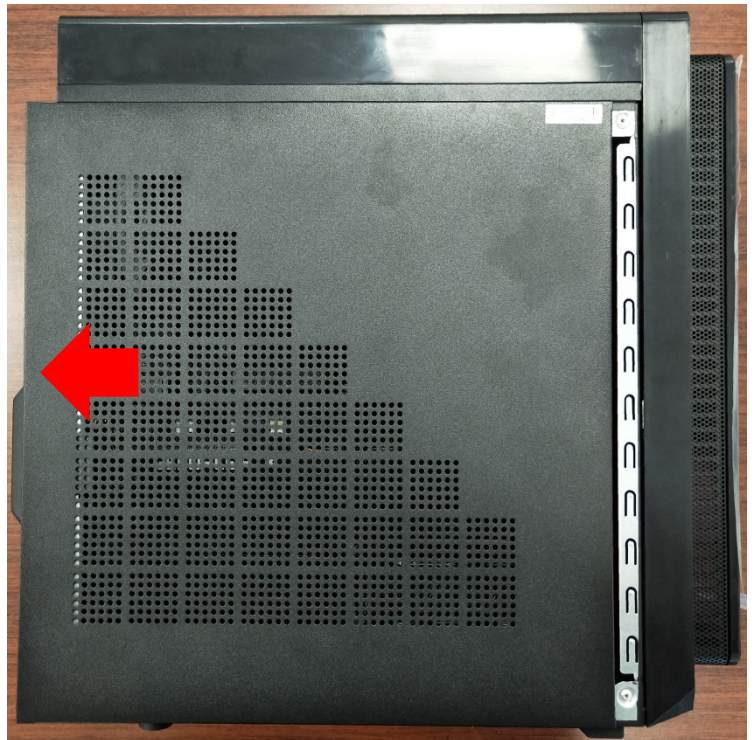
Observe the following after installing a computer component:

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.
4. Connect the necessary cables.
5. Turn on your computer.

# System Upgrade

## Removing the Left side system cover

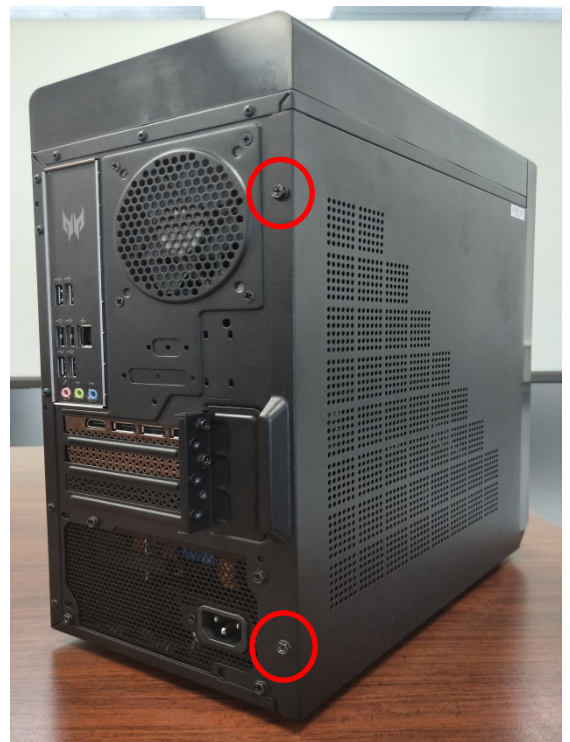
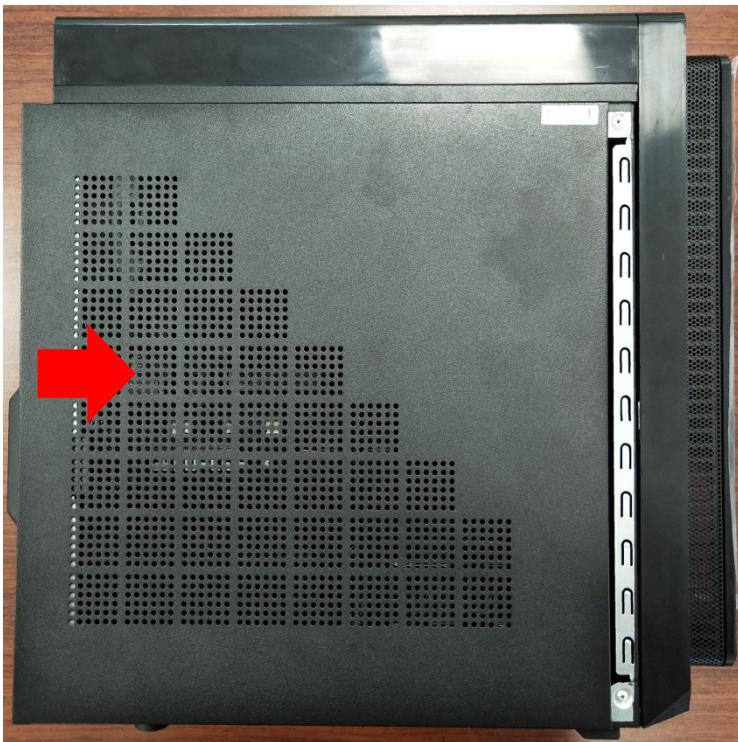
1. Before you proceed, make sure that you have turned off your computer and all peripherals connected to it. Read the Pre- installation instructions on page 6.
2. Remove the two screws that secure the system cover to the computer.
3. Slide the cover toward the back of the computer and pull away from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



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

## Installing the Left side system cover

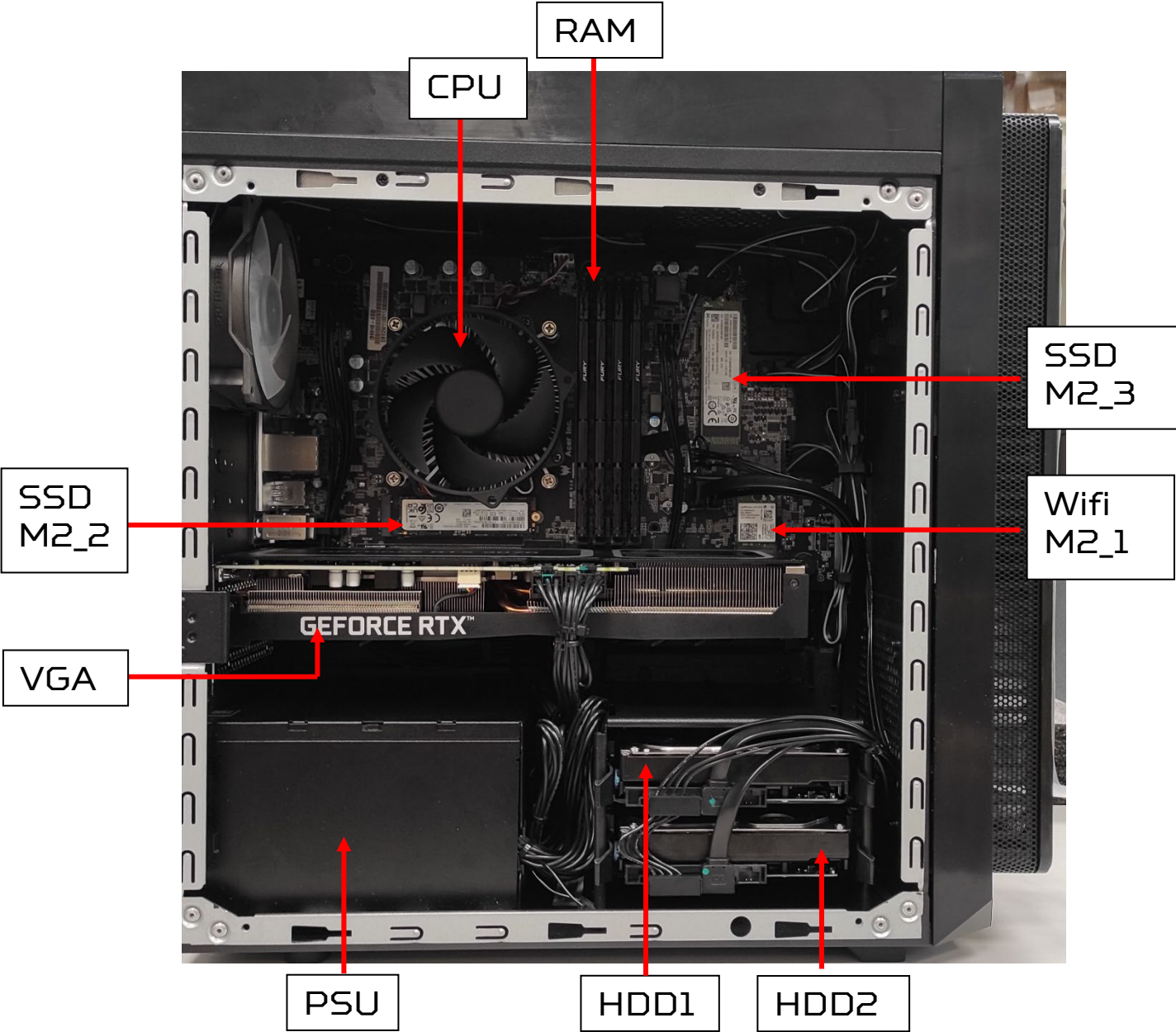
1. Align the cover to the sides of the computer and slide the cover toward the front of the computer.
2. Secure the cover with two screws.



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



# System Layout

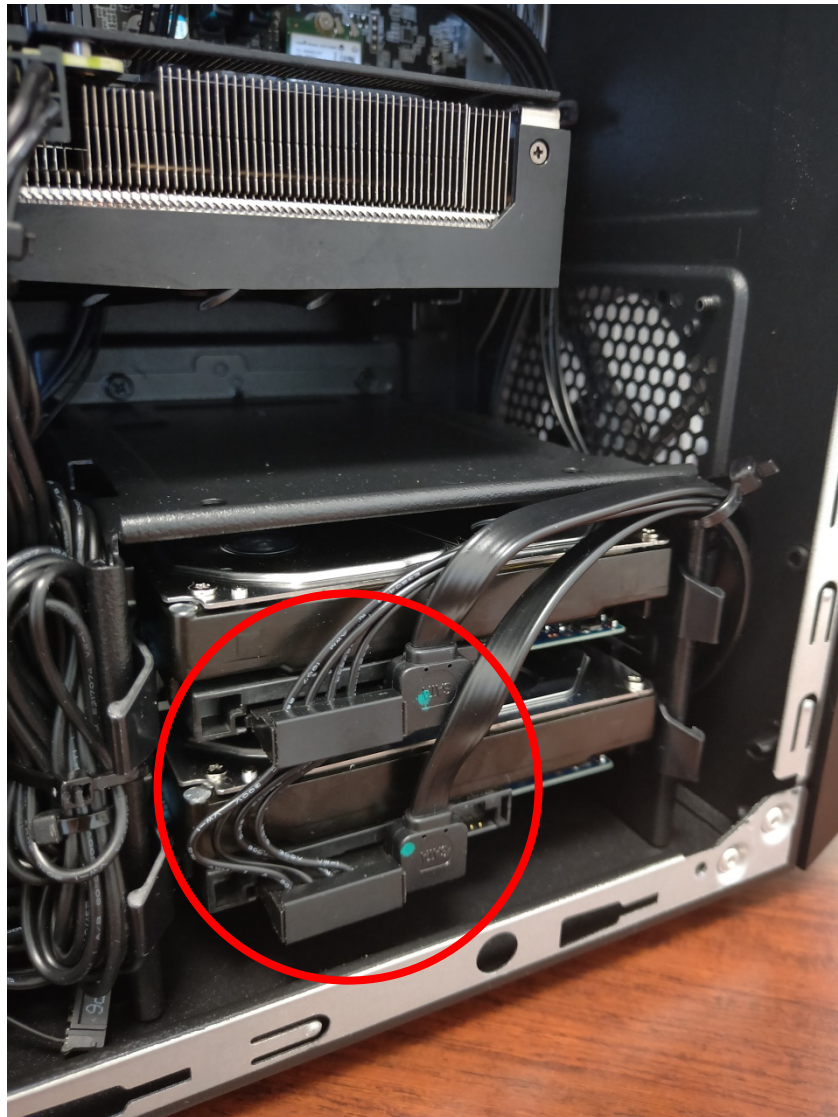


## Hard drives

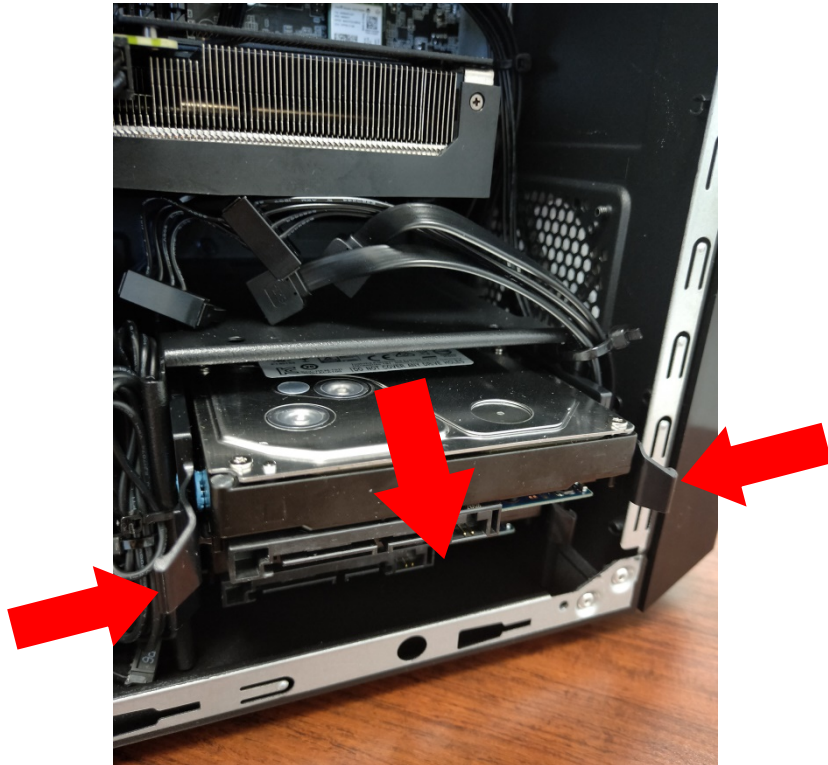
The computer supports installation of one 3.5-inch SATA hard drives in the internal HDD cage.

### Removing the 3.5-inch hard drives

1. Perform Pre-installation instructions on page 6.
2. Disconnect the power and data cables from the hard drives.



3. Pull black rack out from HDD cage and take it off.



4. 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.



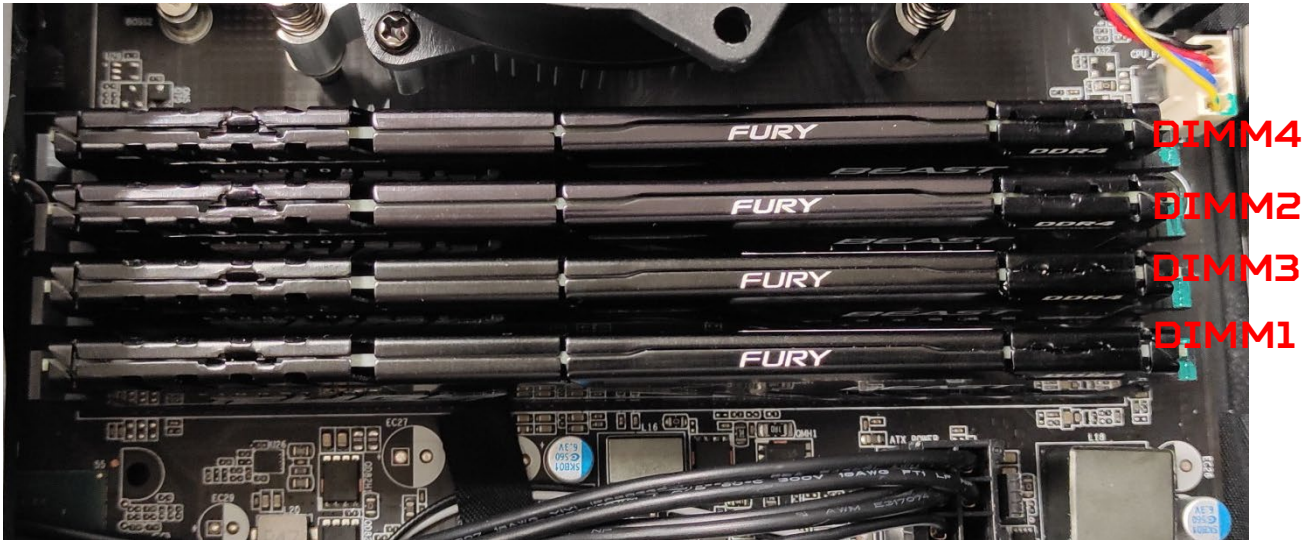
4. Connect the power and data cables to the hard drive.



5. Observe the Post-installation instructions on page 6

# Memory

The computer has four DDR4 U-DIMM slots that support up to 64 GB maximum system memory.



## Memory configuration guidelines

- To ensure data integrity, use only Acer-approved DDR4 3200 MHz
- 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.

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

## Removing a memory module

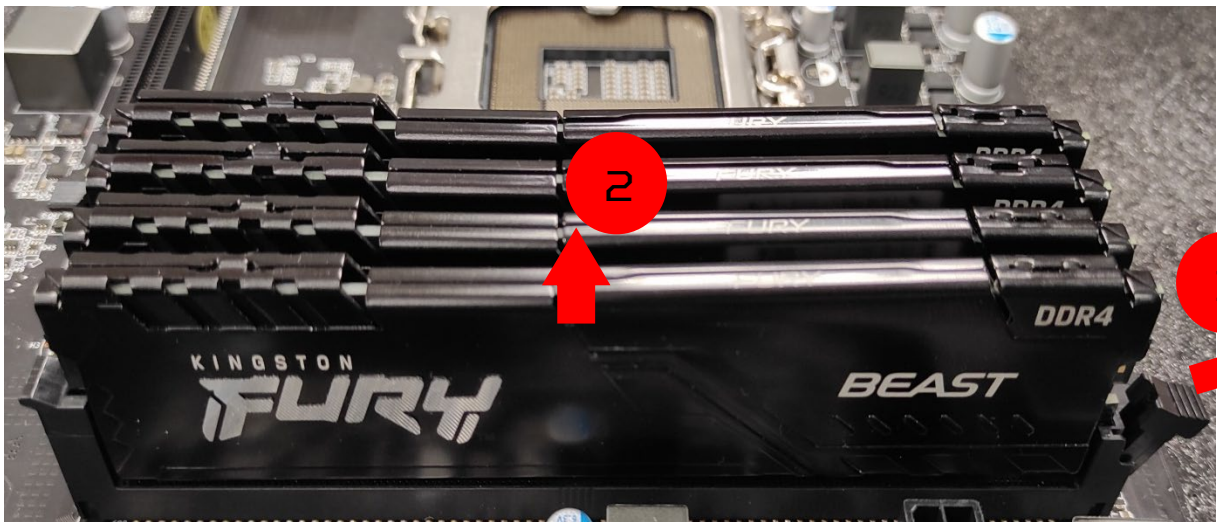


### Note

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.

1. Perform Pre-installation instructions on page 6.
2. Press outward the holding clips on both sides of the DIMM slot outward to release the memory module [1].
3. Gently pull the memory module upward to remove it from the DIMM slot [2].



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

## Installing a memory module

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.

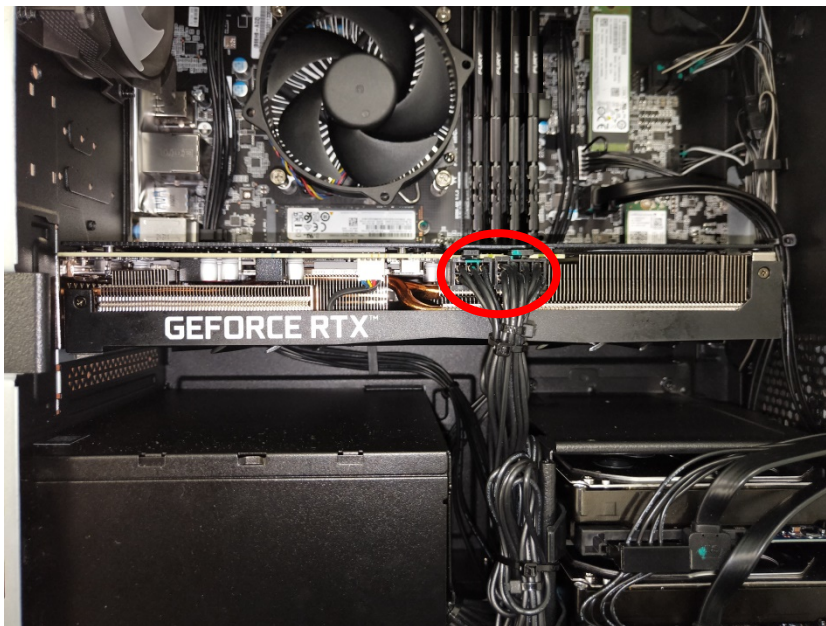


## Graphics board

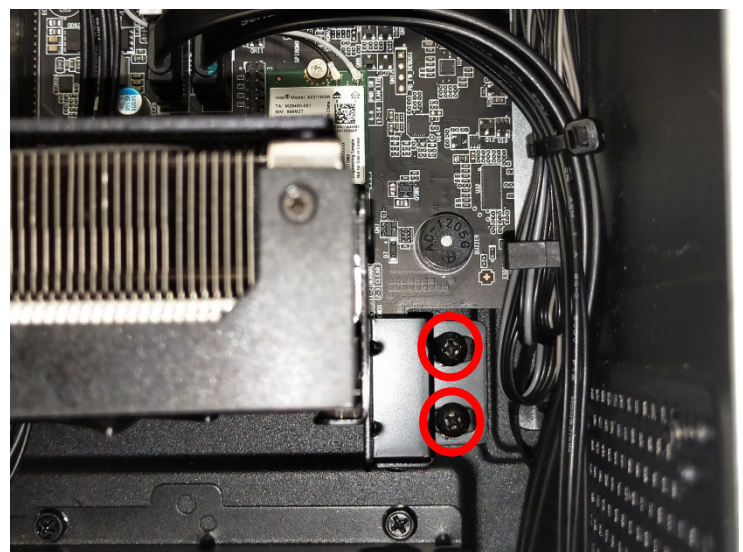
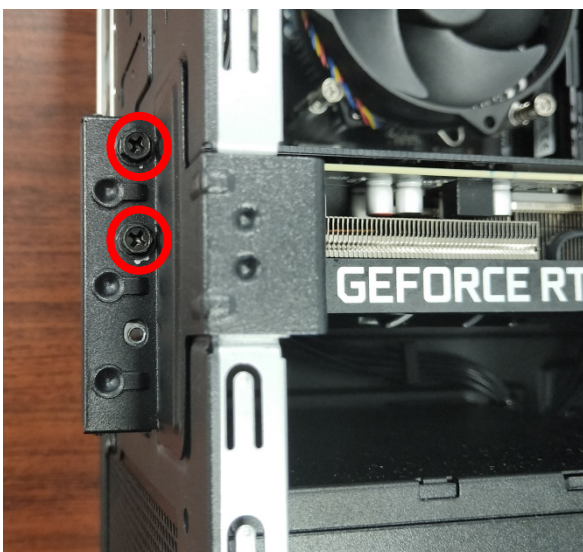
The computer contains one or two Graphics boards installed in the PCIe x16 slots. The detail configuration will be differed by different models.

### Removing the Graphics board

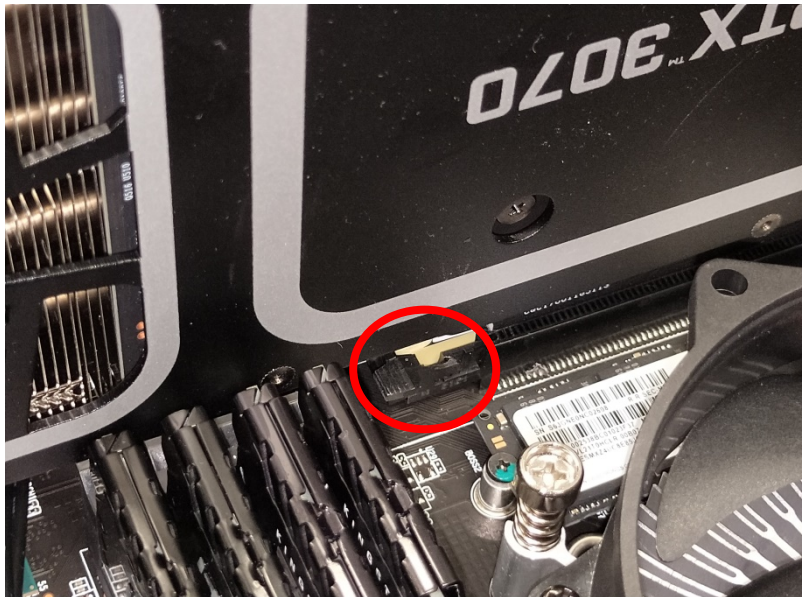
1. Perform Pre-installation instructions on page 6.
2. Disconnect the power cables from the Graphics board.



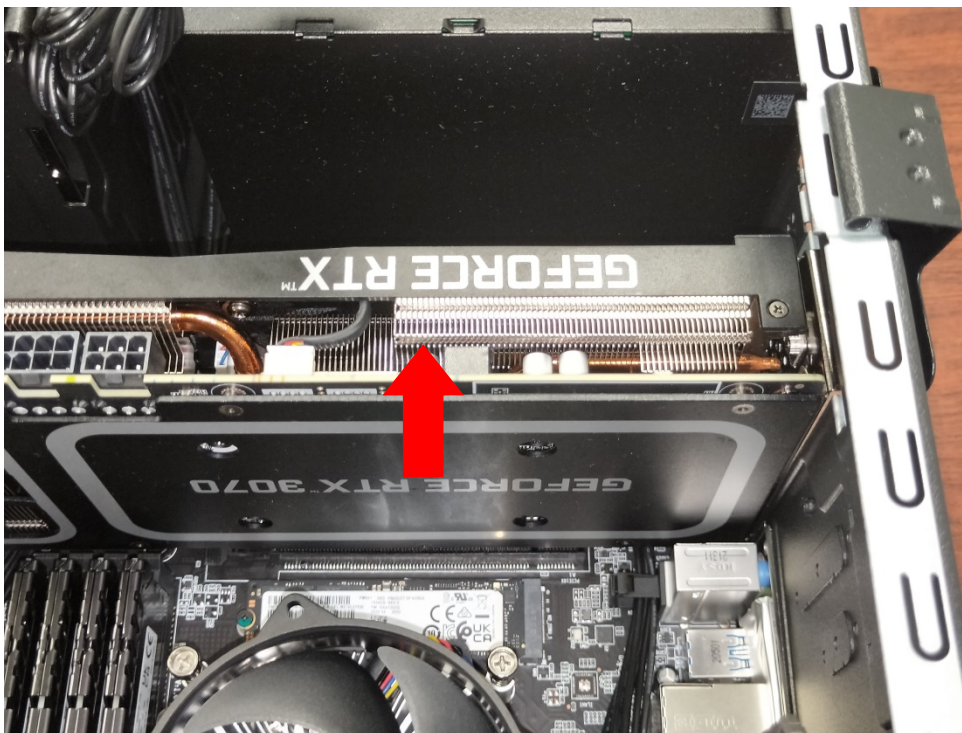
3. Remove the screws that secure the Graphics board to the chassis



4. Release the latch that secures the graphics board to the mainboard.



5. Detach the Graphics board from the PCIe x16 slot

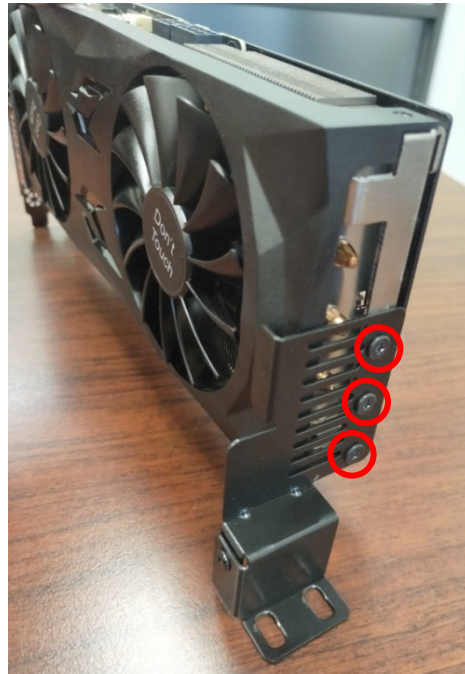


6. Remove the screws that secure the Graphics board to the VGA Holder Bracket.



## Installing the Graphics board

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

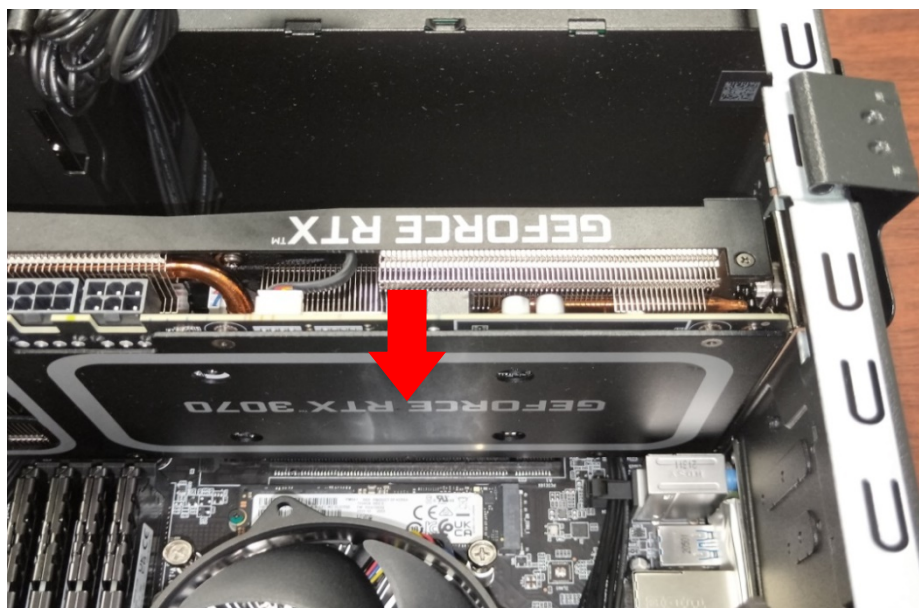


3. Insert the Graphics board into the PCIe x16 slot and press it down until it latches into place.

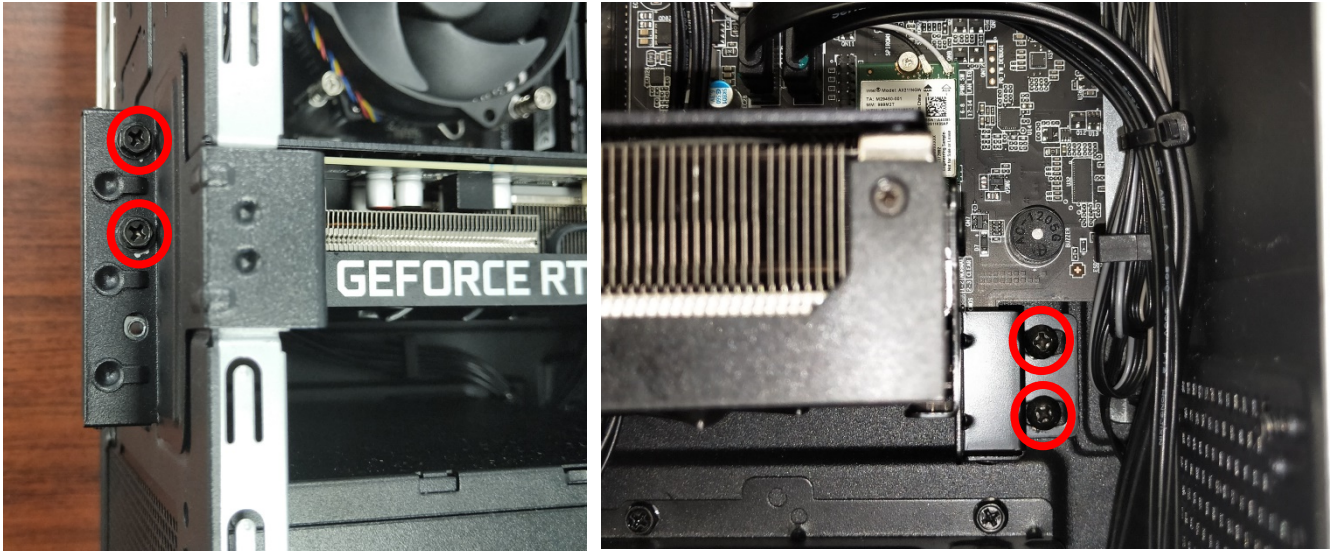


### Note

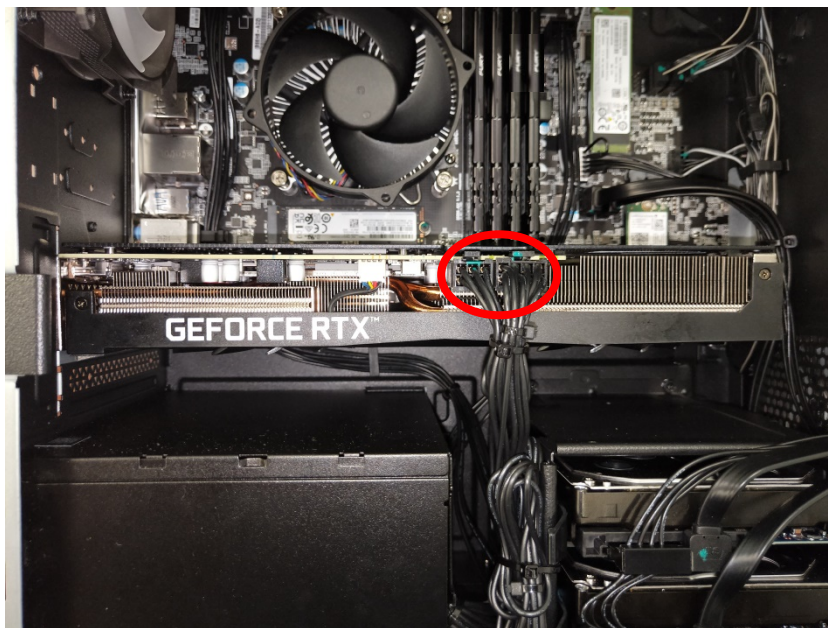
To replace/upgrade graphics board, please check the specification of graphics board & power supply first in order to make sure the graphics board and power supply could work.



4. Secure the Graphics board with screws.



5. Connect the power cables to the Graphics board.



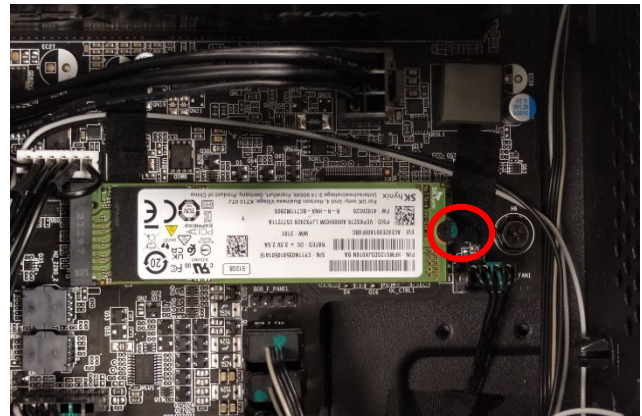
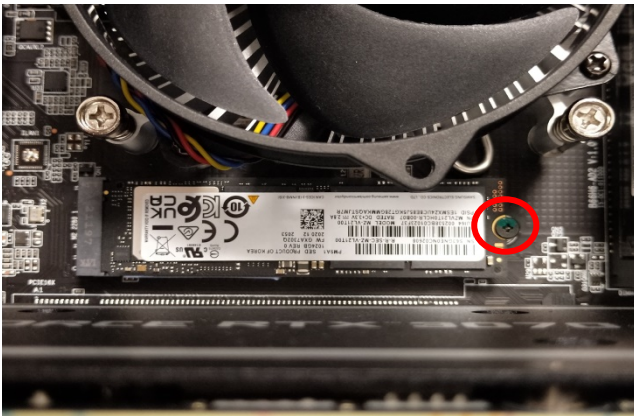
6. Observe the Post-installation instructions on page 6

## M.2 SSD module

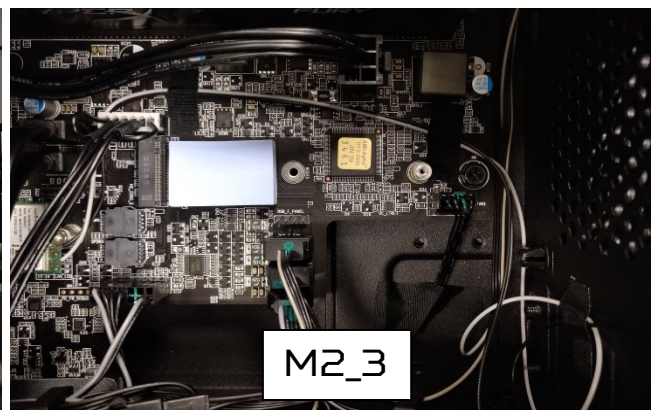
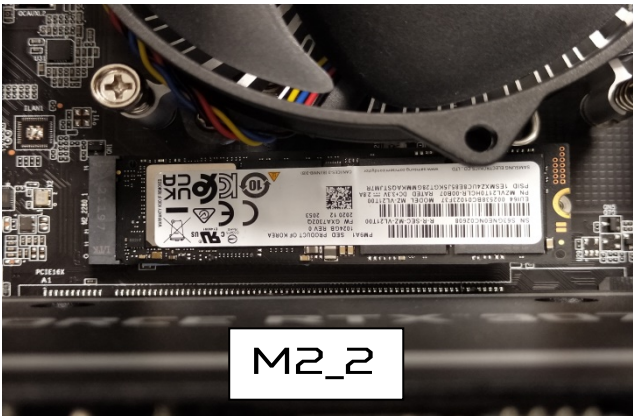
The computer contains one M.2 SSD module installed in the M.2 PCIe slot.

### 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.

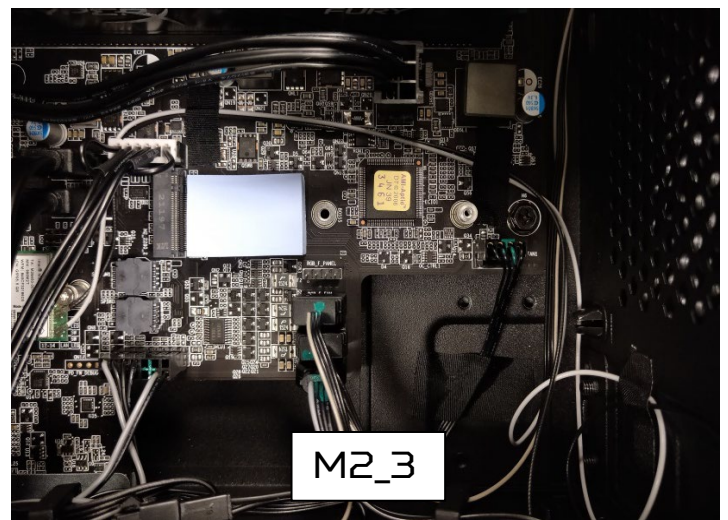


4. Detach the M.2 SSD module from the mainboard.

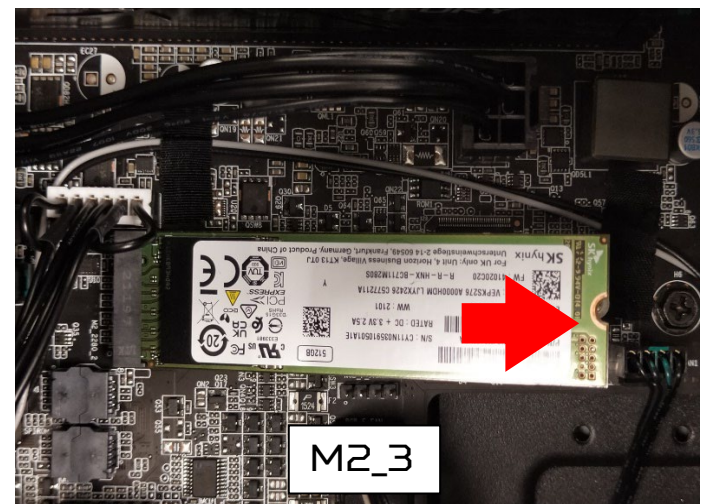
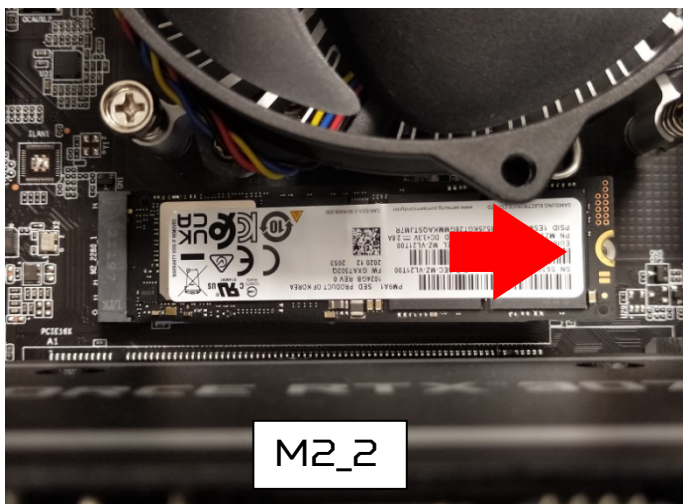


## Installing the M.2 SSD module

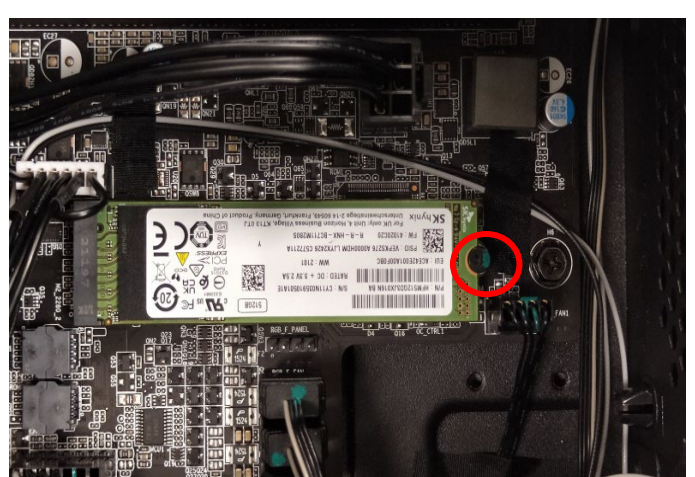
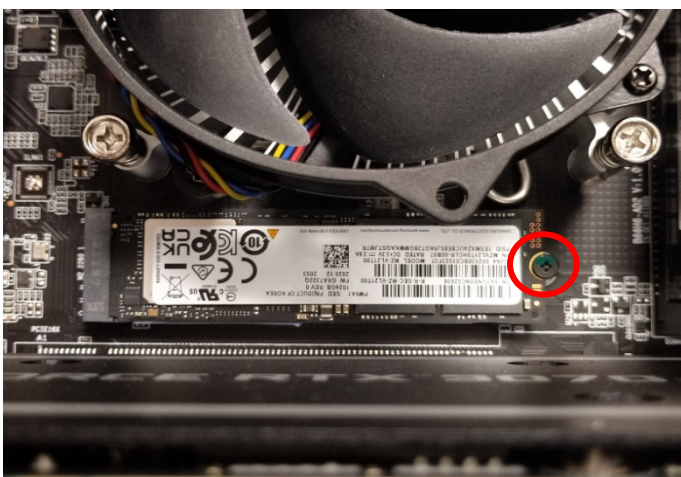
1. Remove the new M.2 SSD module from its packaging.
2. Positioning M.2 SSD thermal pad on MB.



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



4. Secure the M.2 SSD with screws.



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



# 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.

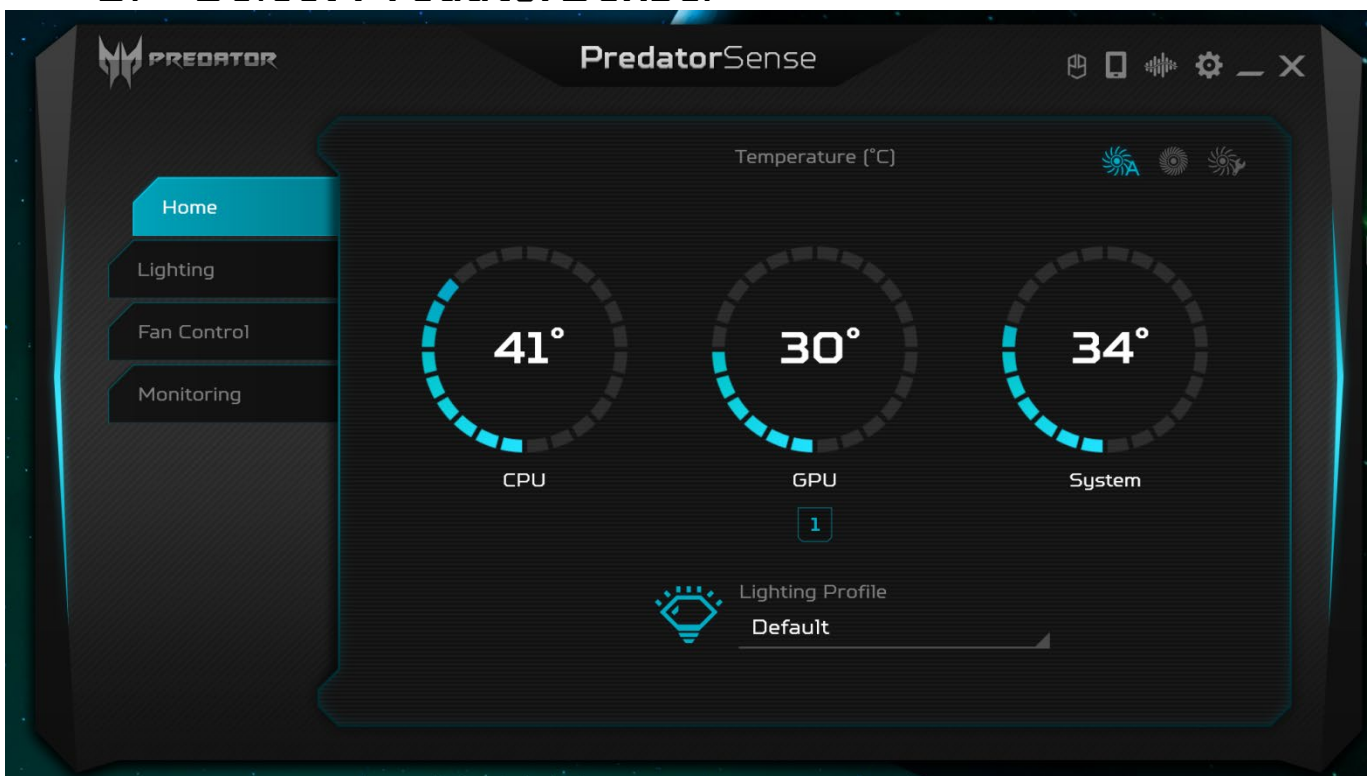
The central idea of this utility is to provide a user interface to easily control fan speed, Lighting and also display system information.

### PredatorSense features

- Home
- Lighting
- Fan Control
- Monitoring

To set up the PredatorSense application (Windows 11):

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



#### Note

PredatorSense function is keeping increased to enlarge user experience , Any new features update excluded from user guide should be possible.

Category	Description
Home	<p><b>Provide overview of all features with quick adjustment</b></p> <ul style="list-style-type: none"> <li>• CPU/GPU/System health information</li> <li>• Fan speed control (Auto, Gaming and Silence)</li> </ul>
Lighting	<p><b>Provide control and adjustment for the LEDs on Front Face, Left Side Face and Rear Face.</b></p> <ul style="list-style-type: none"> <li>• Color: 9 basic colors (last one is rainbow color), 9 recent</li> <li>• Colors which user creates the color via More Color ... button.</li> <li>• Provide the two control method including Global Control and Area Control button</li> <li>• Lighting Effects: Off, Normal, Breathing, Heart Beat, Blink, Breathing randomly, Blink randomly, Parallel rainbow, Sequential rainbow, Breathing rainbow, Wave Color cycle.</li> <li>• Lighting profile</li> </ul>
Fan control	<p><b>Provide Fan speed control in Auto, Gaming and Custom mode for fans including, Front fan , Back fan CPU fan and GPU fan. And show the fan speed for fans. On the Custom fan speed, user can adjust the fan speed in percentage.</b></p> <ul style="list-style-type: none"> <li>• Custom fan speed only can control by 60 ~ 100% percentage.</li> </ul>
Monitoring	<p><b>Provide 3 tabs for CPU/System and GPU.</b></p> <ul style="list-style-type: none"> <li>• Temperature in C</li> <li>• Loading in %</li> <li>• Frequency in MHz</li> <li>• Voltage in V</li> <li>• Download/Upload in bytes/s of WIFI /Ethernet Usage in GB of RAM</li> </ul>

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