

Service Overview

Carefully read through this chapter for a look at various components of PB60 before performing any service and repair.

To provide the best service and support for PB60 we have provided below information for technicians from distributors and resellers to perform the complete PB60 disassembly and assembly. But before performing the procedures, please be sure to read through the overview in this chapter.

The following chapter includes:

- PB60 Overview
- HDD
- Memory Module
- SSD Module
- WLAN Module
- Main Board
- Thermal Module
- VGA Board
- Switch Board
- Battery
- Speaker
- CPU



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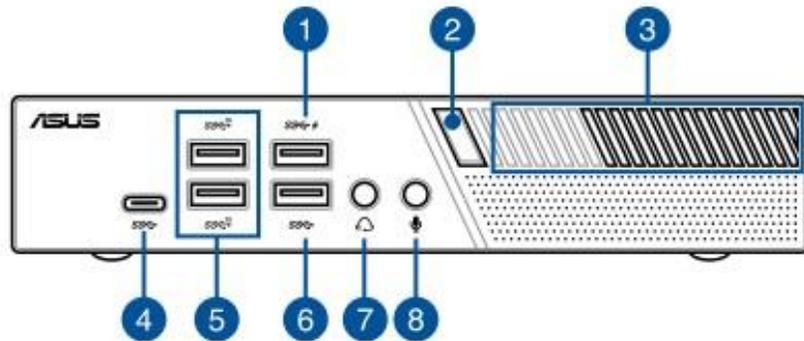
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PB60 Overview

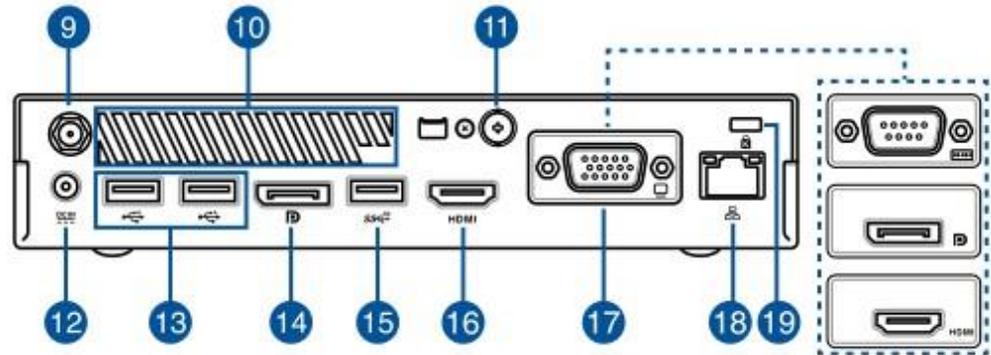
The illustrations below show the PB60 overview from rear panel view. Most of the parts will be discussed in this manual.

Front view / Front view / Front vieww



1. USB 3.1 Gen 1 port
2. Power Button
3. Air vents
4. USB 3.1 Gen 1 Type-C™ port
5. USB 3.1 Gen 2 port
6. USB 3.1 Gen 1 port
7. Headphone/Headset jack
8. Microphone jack

Rear view / Rear view / Rear view



9. Wireless antenna jack
10. Air vents
11. Punch-out port
12. Power input
13. USB 2.0 Port
14. Display Port
15. USB 3.1 Gen 2 Port
16. HDMI Port
17. VGA port(on selected models) /Serial(COM) connector/Display Port/HDMI Port
18. LAN Port
19. Kensington® security slot

COMPONENTS

TTS

HDD

Components

The illustrations below show the components of PB60.

HDD

The illustration below shows HDD.



MODULE

Memory Module

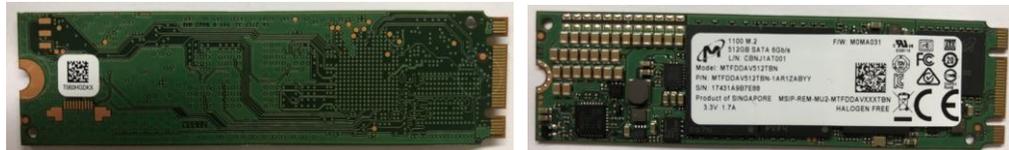
The illustration below shows the Memory



SSD MODULE

SSD Module

The illustration below shows the SSD Module.



**WLAN
MODULE**

WLAN Module

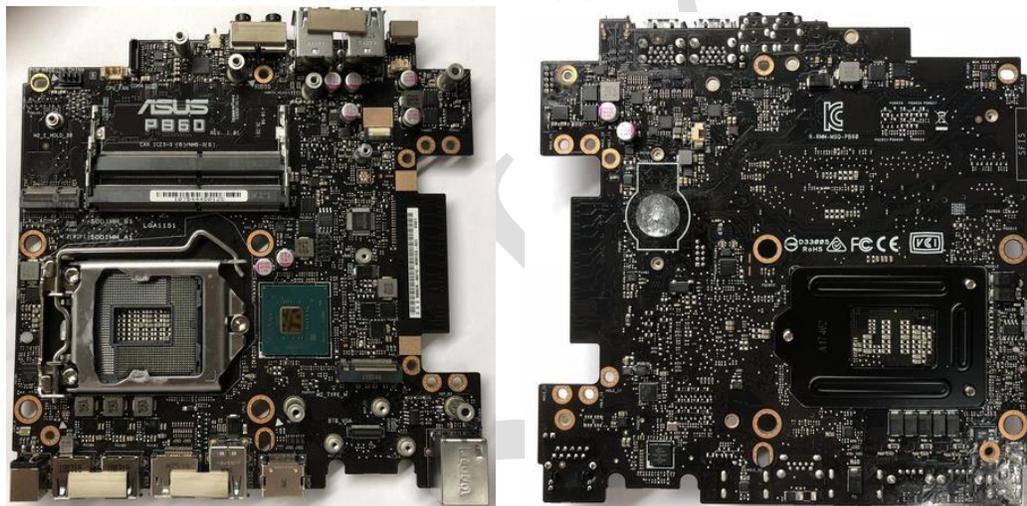
The illustration below shows the WLAN Module.



**MAIN
BOARD**

Main Board

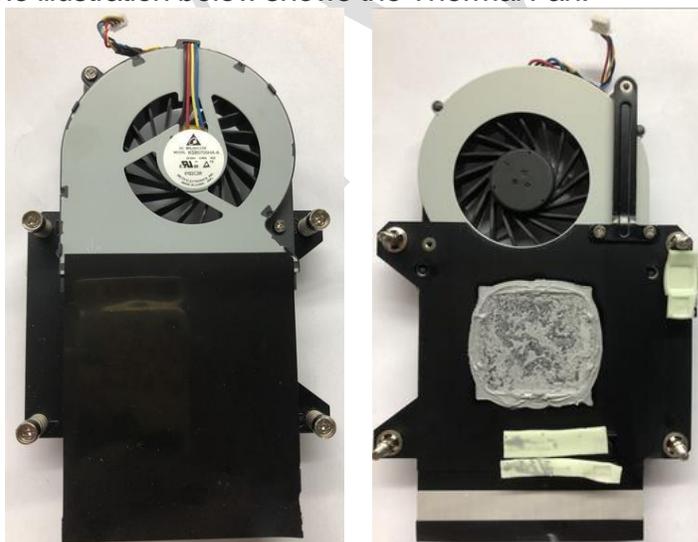
The illustration below shows the Main Board.



**THERMAL
FAN**

Thermal Fan

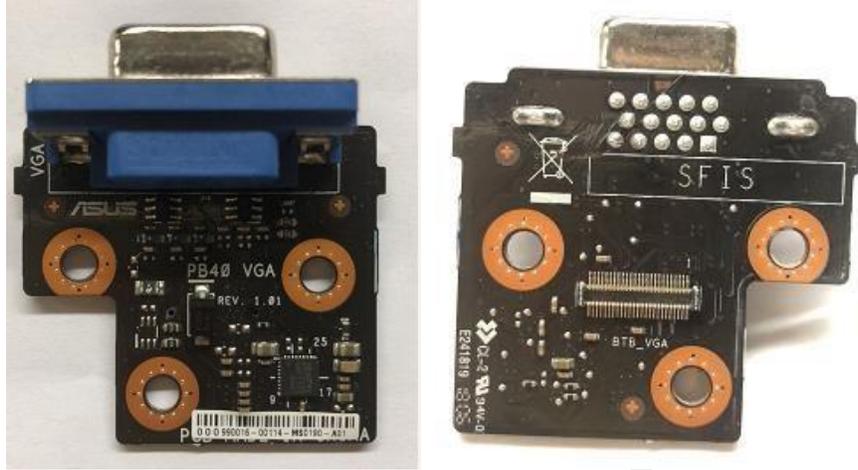
The illustration below shows the Thermal Fan.



VGA BOARD

VGA Board

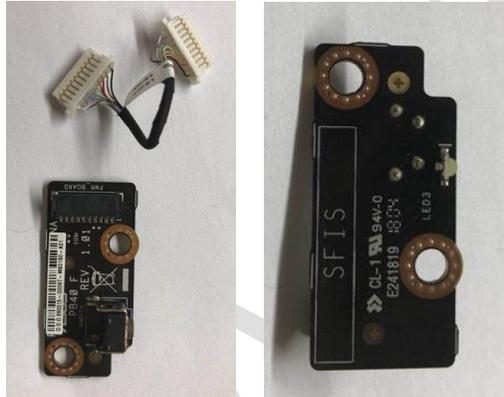
The illustration below shows the VGA Board.



SWITCH BOARD

Switch Board

The illustration below shows the Power Switch Board.



Switch Cable

BATTERY

Battery

The illustration below shows the battery.



S P E A K E R

Speaker

The illustration below shows the speaker.



C P U

CPU

The illustration below shows the CPU.



Disassembly(Assembly) Procedure

Please follow the information provided in this section to perform the complete disassembly procedure of PB60. Be sure to use proper tools described below.

A SUS PB60 consists of various modules. This chapter describes the procedure for PB60 disassembly and assembly. In addition, the detailed disassembly procedure of individual modules will be provided for your service Needs.

The disassembly procedure consists of the following steps:

- Diagnostics Tools
- Precautions and Tools
- Top Cover Module
- HDD Module
- SSD
- Switch Board
- Thermal Module
- Memory Module
- WLAN card
- CPU
- Speaker
- Main Board Module
- VGA Board
- The Battery

Diagnostics tools

Run system diagnosis in MyASUS after replacing any components to ensure that all components are working properly.

For more information, visit
<https://www.asus.com/support/myasus-deeplink/>

ASUS

Assembly Procedure

Please read the document from end to beginning, and pay special attention to the assembly notice in the yellow frame.

Precautions and Tools

Please pay special attention to the cautions below to prevent any damage to the PB60 and also please be sure to select the appropriate tools described in this section to perform any services desired.

Before you perform any service and or repair on the PB60, please follow the steps below first.

1. Be sure that the PB60 is powered down.
2. Disconnect the AC plug from the PB60
3. Remove all rings, watches and any other metal objects from your hands.



4. Always wear a ground strap on your hand to protect the PB60 from static discharge.
5. Please refer to “ANSI ESD S20.20” about ESD protection measure.
6. Put disassembled top case and bottom case in the PE BAG to avoid any damages.
7. Environment temperature is 20-30 °C and humidity is 40% - 70%.

Appropriate Tools

The illustrations below show the appropriate tools that should be used for the service and repair.

Cross Screwdriver

According to different screw specifications, please choose appropriate Screw driver and head. The photos below are for your reference only.

Use a cross screwdriver to fasten/remove screw

The cross screwdriver below can make torque adjustment.

RTD120CN



RTD60CN



Plastic Blade



Tweezers

Use a pair of tweezers to remove/insert flexible cables.

**Thickness gauge**

Thickness compass specification 0.05mm-1.5mm. Use it to measure the gap.



Remove the Top Cover Module

1: Remove 1 screw on the rear case (M2.5*5L).



2: Push the Bottom Cover by following the red direction, and make it to be not locked.



3: Lift the Bottom Cover from the no-locked side.



Remove the HDD Module

1: Remove 4 screws (M2.5*15L, M2.5*5L).



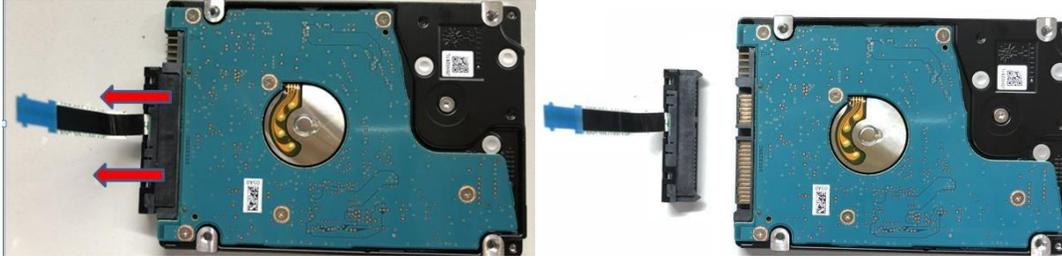
2: Disconnect the HDD connect cable.



3: Remove 4 screws (M3*3L).

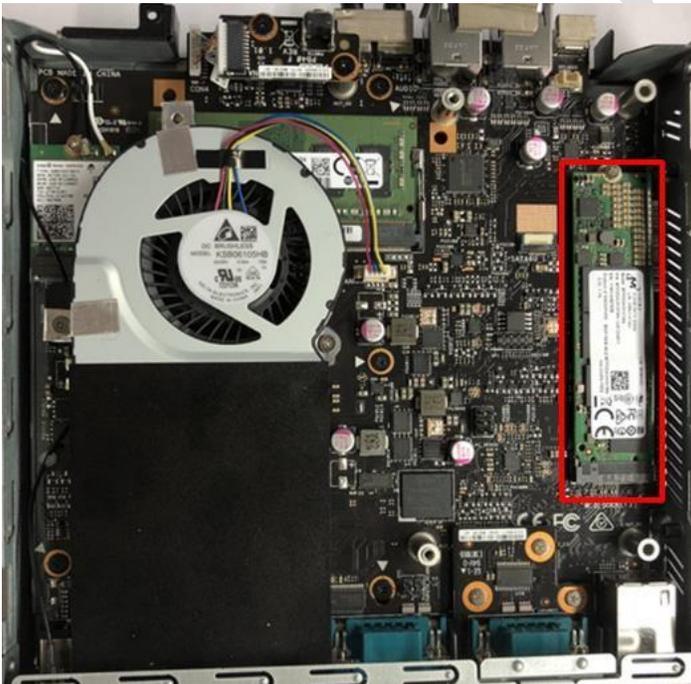


4: Remove the patch cord.



Remove the SSD.

1: The SSD.

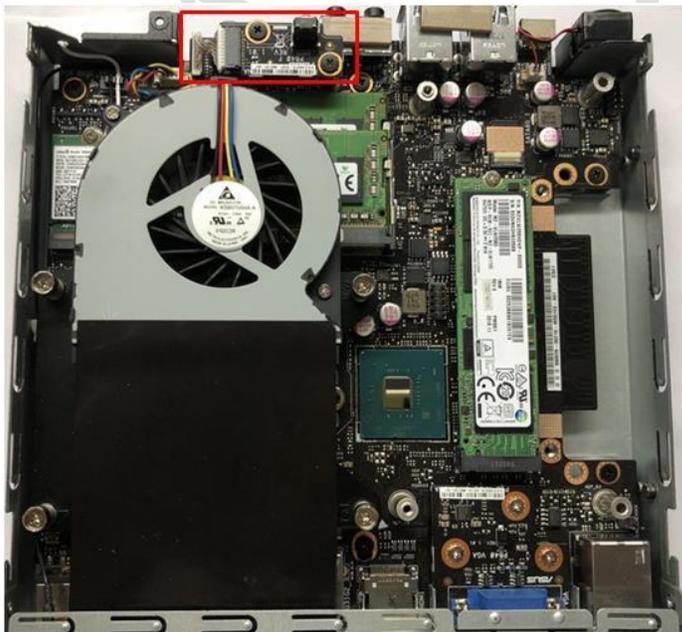


2: Remove the screw (M2*2.5L) and remove the SSD.



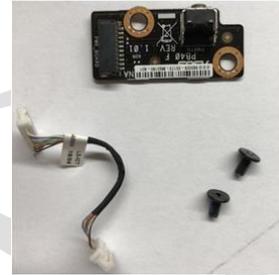
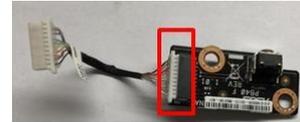
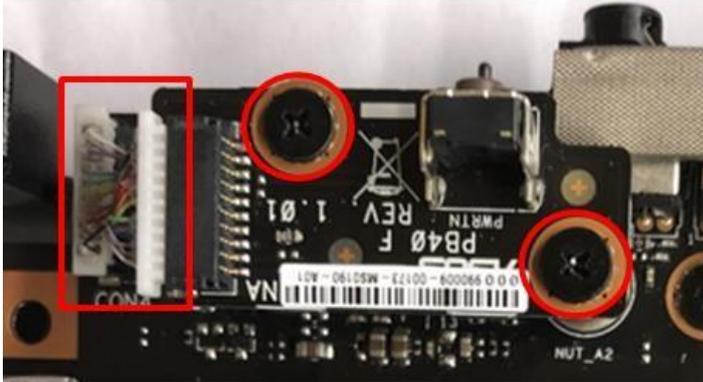
Remove the Switch Board

1: The Switch Board



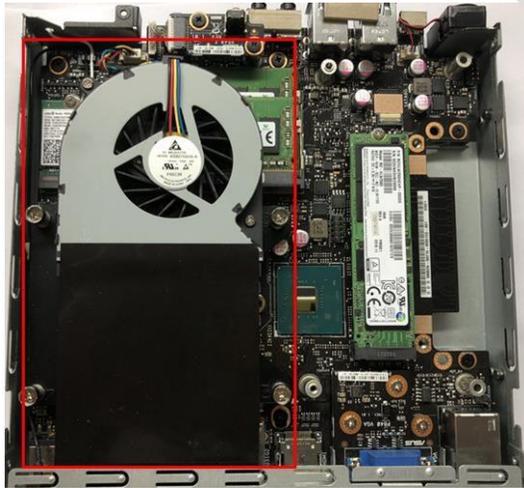
2: Remove 2 screws (M2.5*5L) and disconnect the switch board cable, then remove the Switch Board.

Switch Cable



Remove the Thermal Module

1: The Thermal Module.



2: Disconnect the QFAN cable, and unscrew 4 screws.



3: Remove the Thermal Module.



Remove the Memory Module

1. The Memory Module



2. Push the slot latch on both sides.



3. Grip with both hands, and extraction the memory.



Remove the WLAN Card

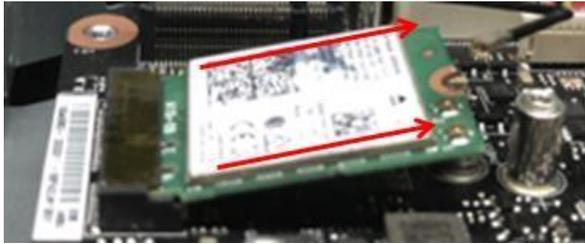
1: WLAN Card.



3: Disconnect the RF Cable and remove the screw (M2*3L).

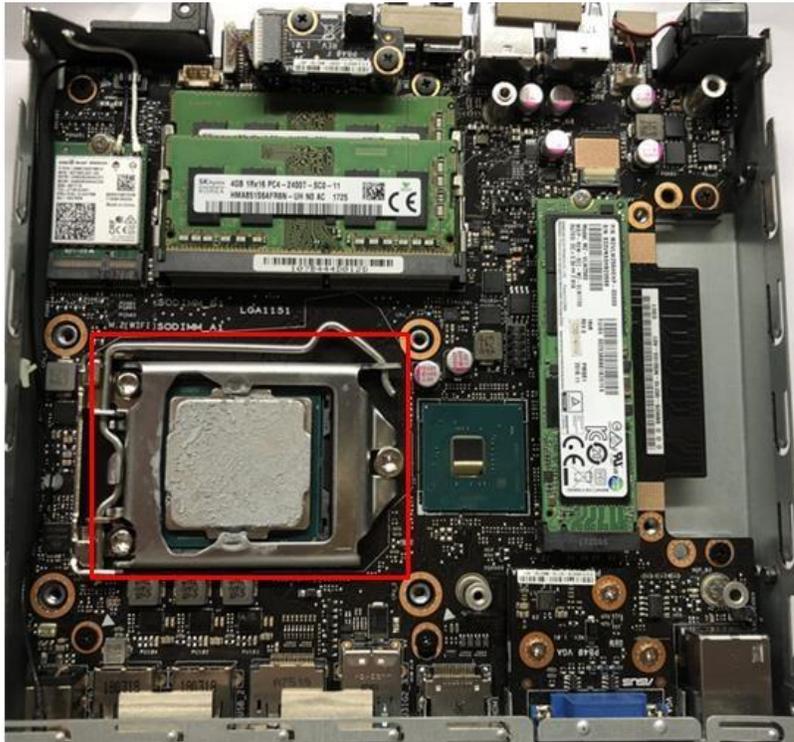


3: Remove the WLAN Card.



Remove the CPU

1: The CPU.

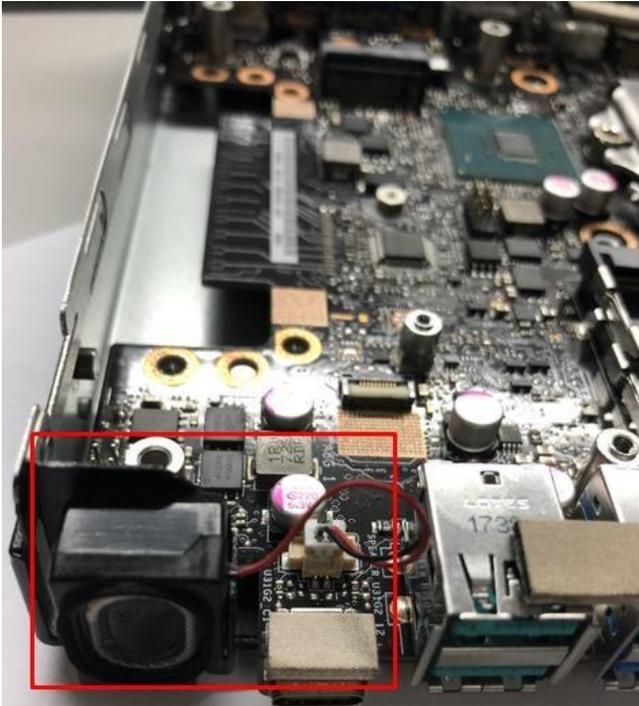


2: Remove the CPU

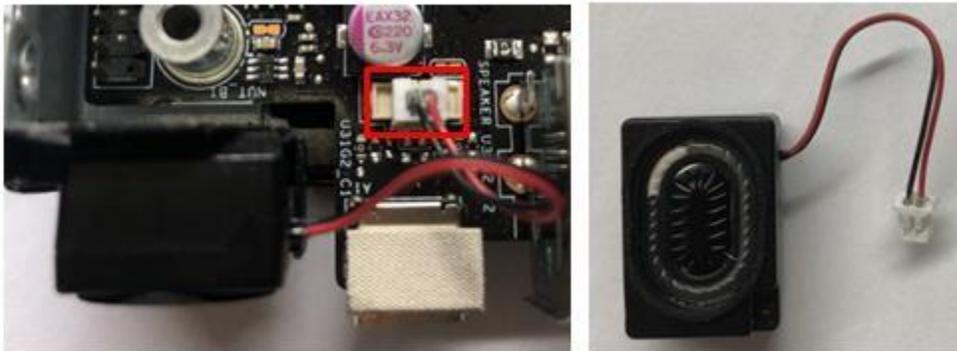


Remove the Speaker

1: The Speaker.



2: Disconnect the Cable and remove the Speaker.

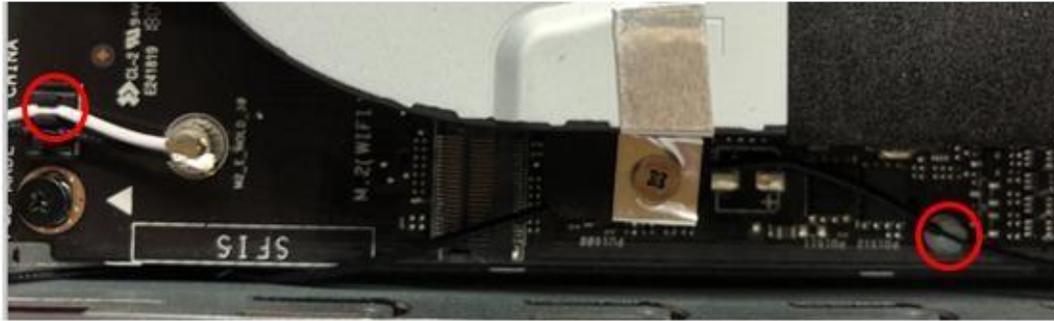


Remove the Main Board Module

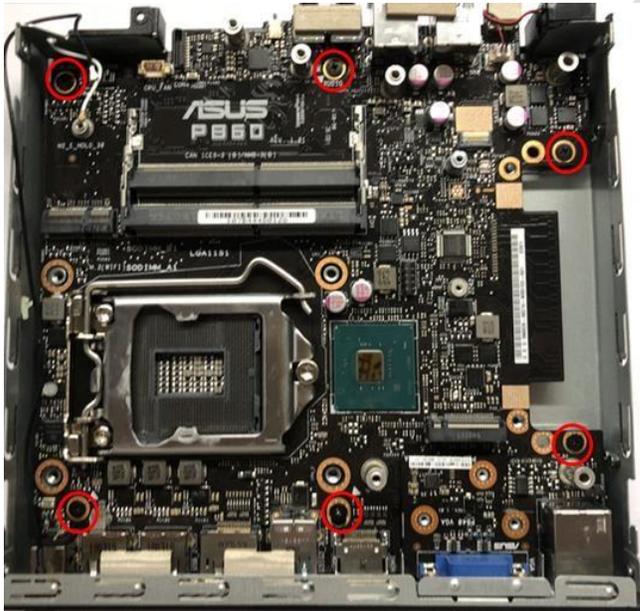
1: Remove 2 screws (HEX #4*4+4.5+4.75) on the rear side.



2: Disconnect the LAN cable on the Main Board side.



3: Remove 6 screws (M2.5* 5L), and remove the main board module.

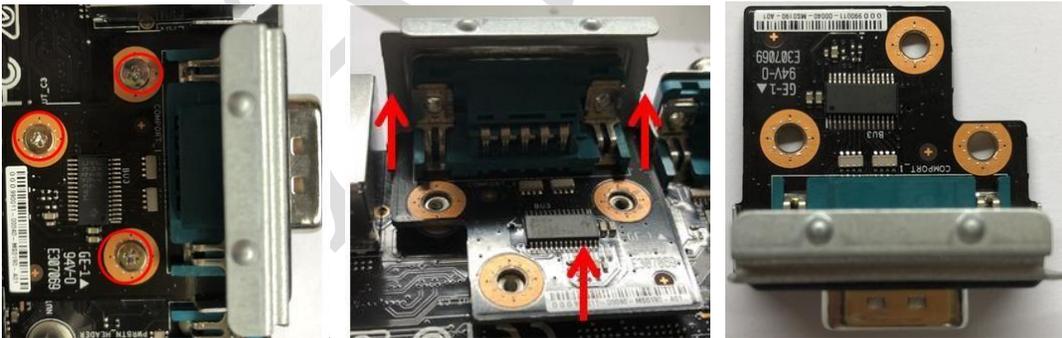


Remove the VGA Board

1: VGA Board.

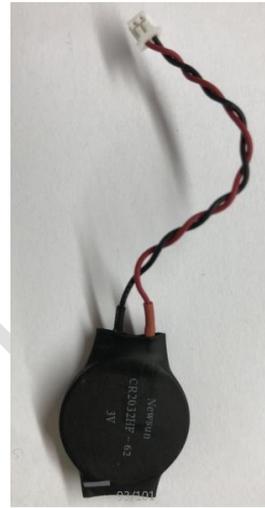
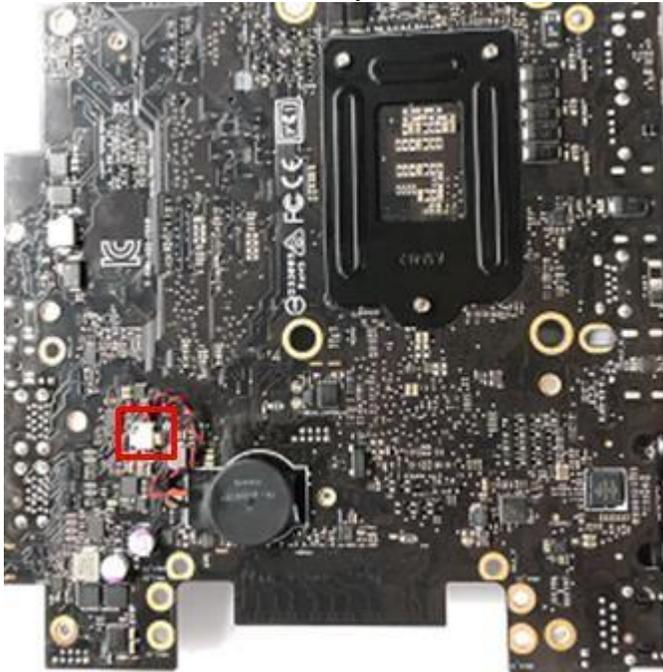


2: Remove 3 screws (M2*3L), and remove the VGA Board.



Remove the Battery

1. Disconnect the Battery Cable, and remove the battery.



After finishing all above steps, main board is left as follows.

