Veriton X4680G/X2680G Desktop Computer Disassembly Instructions

Disassembly Instructions

This chapter provides step-by-step instructions on how to disassemble the computer for maintenance and troubleshooting purposes.

Disassembly Tools

In performing the disassembly process, you will need the following tools:

- Wrist-grounding strap and conductive mat for preventing electrostatic discharge
- Philips screwdriver
- Hex screwdriver
- Flat screwdriver
- Scissors (for cutting cable ties)

NOTES   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-disassembly Procedure

Before proceeding with the disassembly procedure, perform the steps listed below:

1. Make sure that the optical disc drive and the card reader slot are 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 with the rear cover facing upward.

Disassembly Procedures

Removing the Side Panel

1. Put the computer on a flat surface.

2. Remove the two screws securing the side panel to the chassis.

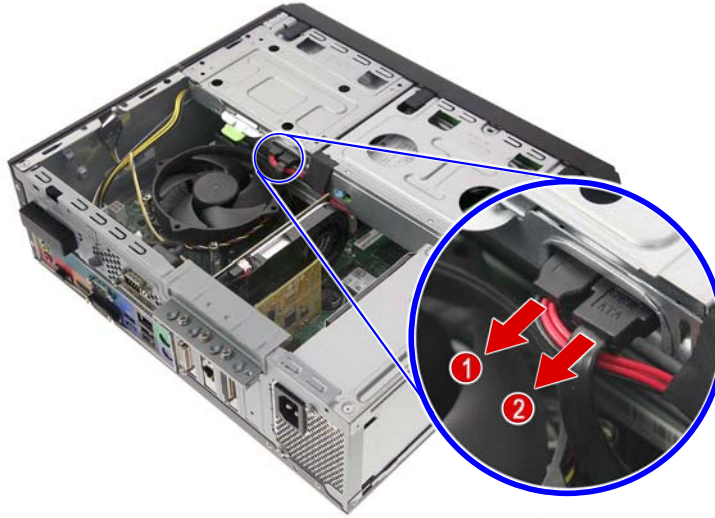| Quantity	Color	Torque	Part Number	Screw Type
2	Black	6.0 ± 0.5 kgf-cm	86.SR2D1.001	

3. Slide the side panel toward the back of the chassis until the tabs on the side panel disengage with the slots on the chassis.
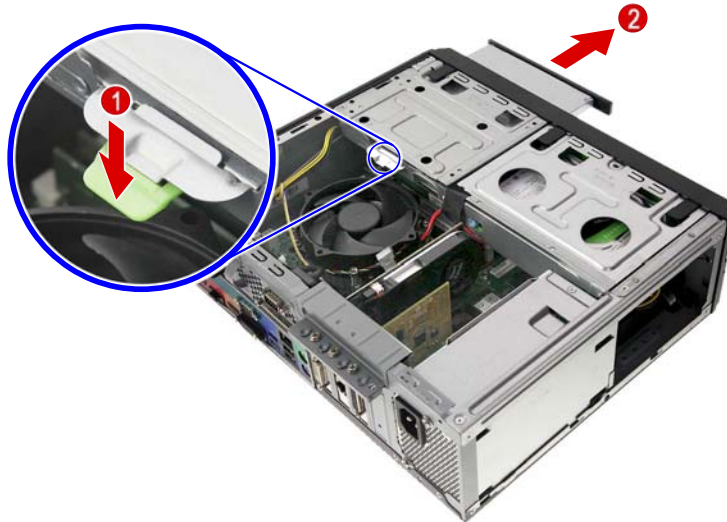

4. Detach the side panel from the unit and put it aside for re-installation later.
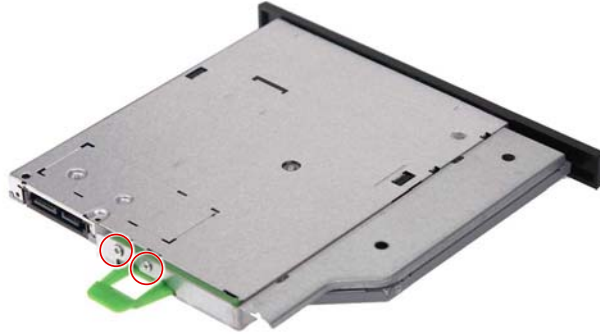
Removing the ODD Module

1. Disconnect the power and data cables from the ODD module.

2. Press the retaining latch (**1**) and slide the ODD module out of the chassis (**2**).
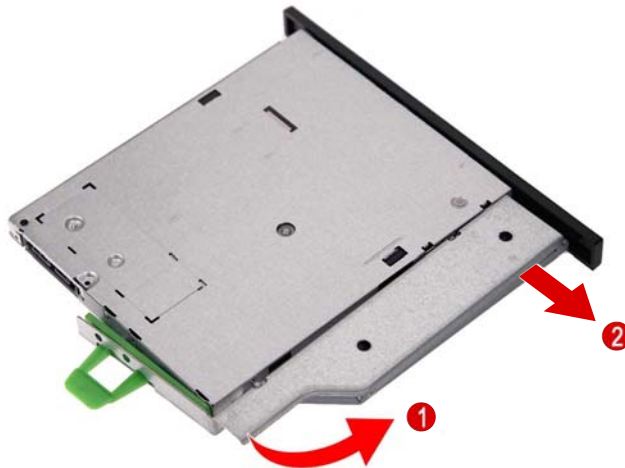
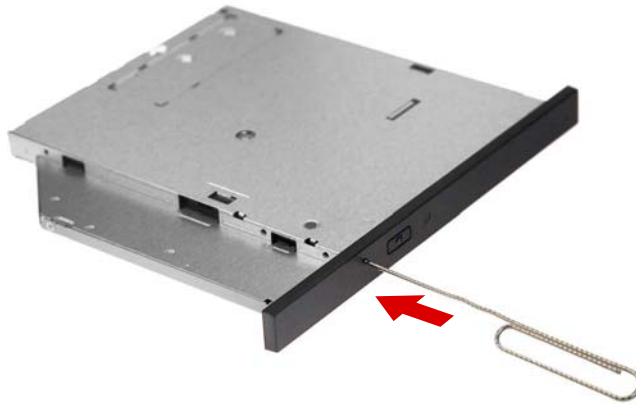**3.** Remove the two screws securing the rear and side brackets to the ODD.

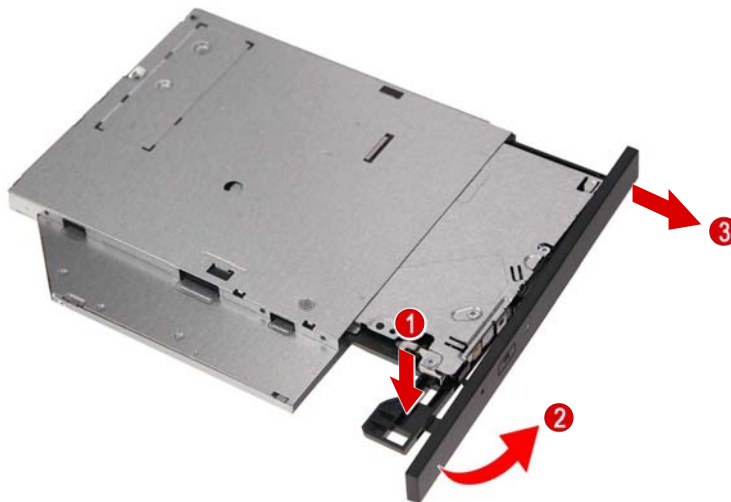| Quantity	Color	Torque	Part Number	Screw Type
2	Silver	1.5 ± 0.3 kgf-cm	86.UAXD1.001	

4. Detach the rear and side brackets from the ODD.

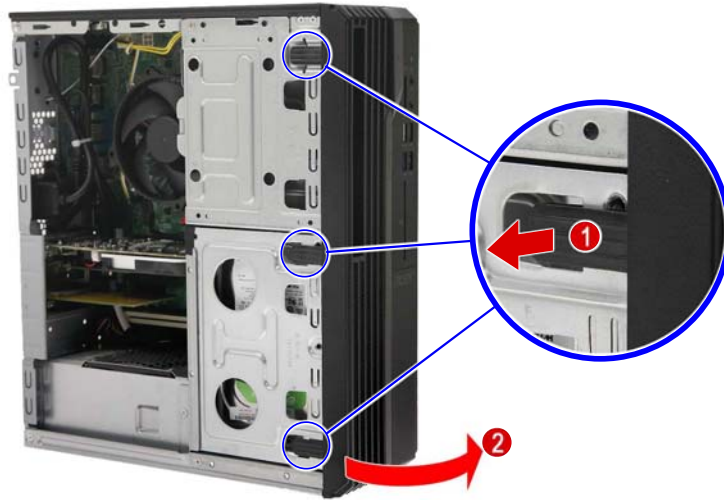**5.** Force eject the ODD tray by inserting a thin metal object into the ODD emergency eject hole.

6. Disengage the latch securing the ODD bezel to the ODD tray and detach the bezel from the ODD module.
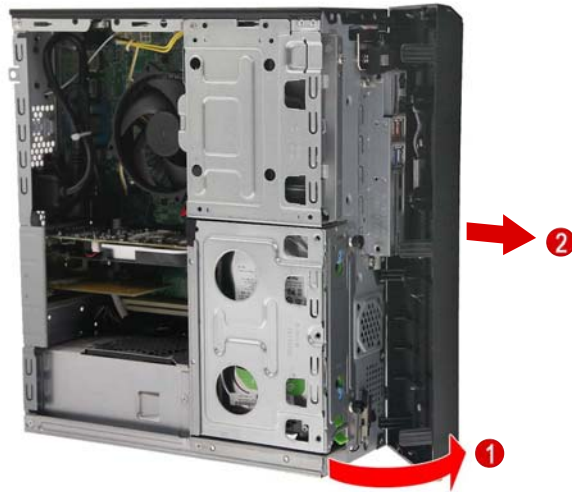
Removing the Front Bezel

1. Release the front bezel retention tabs from the chassis interior.
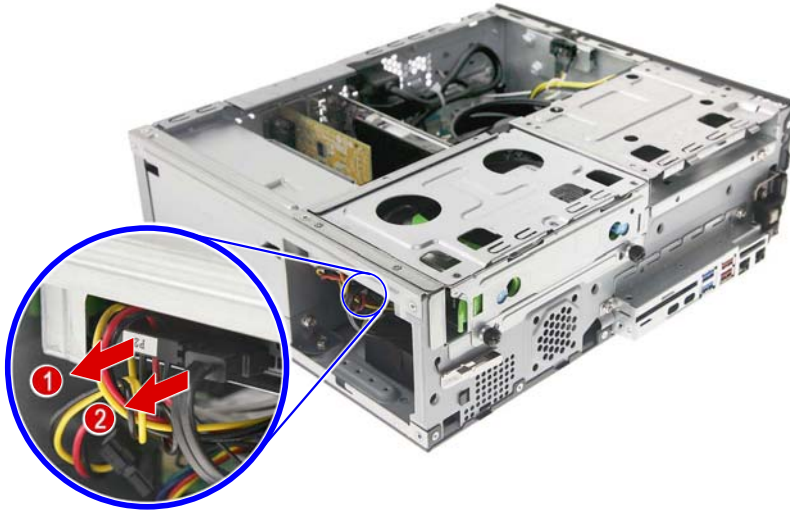

2. Pull the front bezel away from the chassis.

Removing the HDD Module

1. Disconnect the power and data cable from the HDD module.

2. Loosen the two thumbscrews securing the HDD bracket to the chassis.

Quantity	Color	Torque	Part Number	Screw Type
2	Black	6.0 ± 0.5 kgf-cm	86.VMTD1.002	

3. Detach the HDD bracket from the chassis.

4. Slide the HDD carrier out of the bracket.

5. Pull both sides of the HDD carrier (**1**) then remove the HDD (**2**).

Removing the HDD/ODD Bracket

1. Remove the three screws securing the HDD/ODD bracket to the chassis.

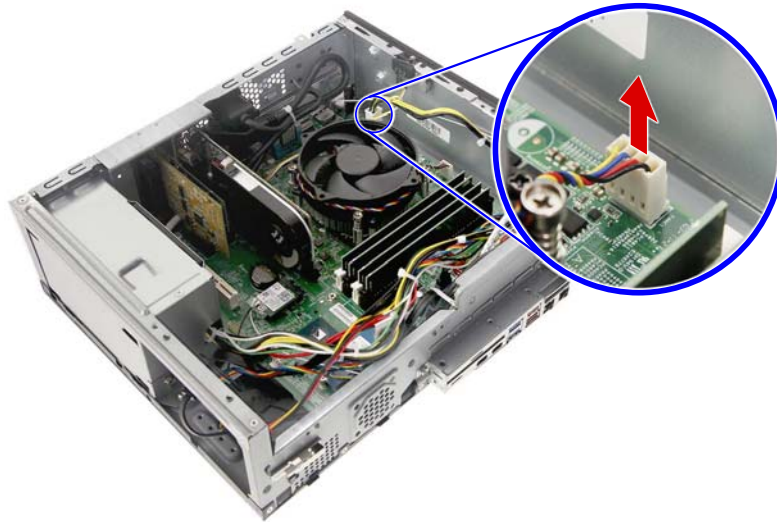| Quantity	Color	Torque	Part Number	Screw Type
2	Silver	6.0 ± 0.5 kgf-cm	86.5A5B6.012	
1	Silver	6.0 ± 0.5 kgf-cm	86.SPZD1.003	

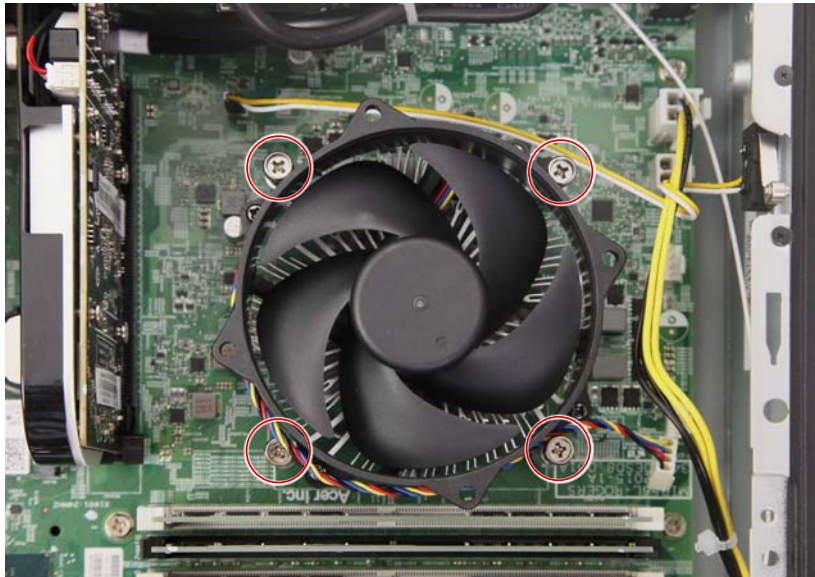2. Detach the HDD/ODD bracket from the chassis.

Removing the Thermal Module

> **WARNING:** The heatsink becomes very hot when the system is on. Wait for the heatsink to cool off before proceeding with below steps.

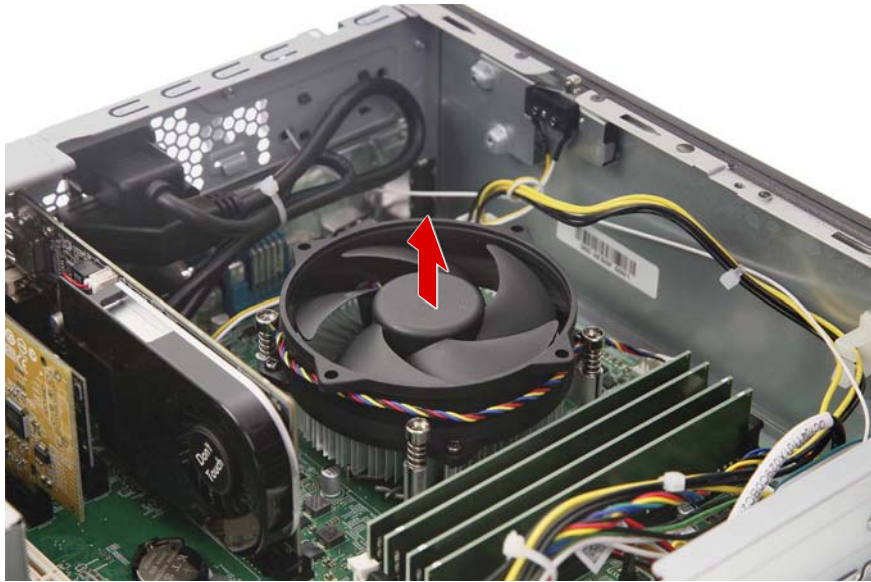1. Disconnect the heatsink fan cable from the mainboard.

2. Loosen the four captive screws securing the thermal module to the mainboard.

Quantity	Color	Torque	Part Number	Screw Type
4	Silver	6.0 ± 0.5 kgf-cm	N/A	Thermal Screws

3. Remove the thermal module.
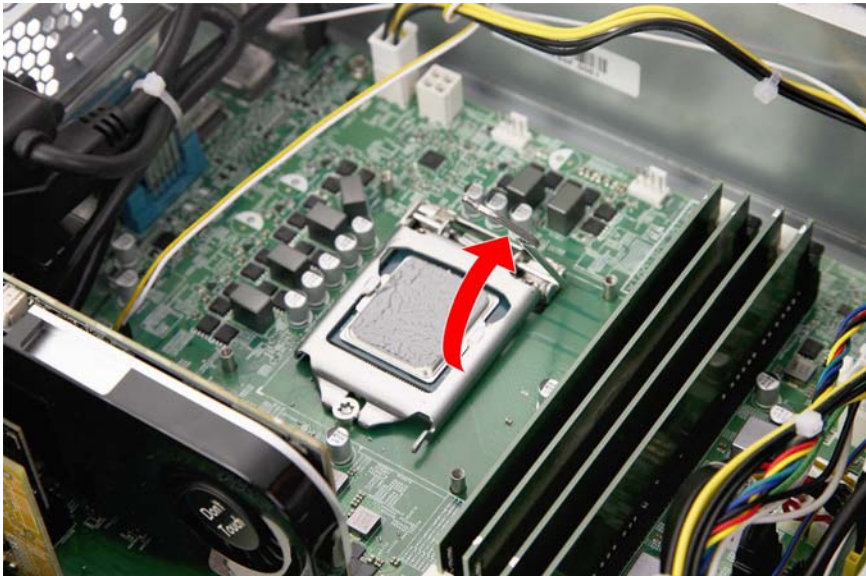
Removing the Processor

IMPORTANT: Before removing a processor from the mainboard, make sure to create a backup file of all important data.

WARNING: The processor becomes very hot when the system is on. Allow it to cool off first before handling.
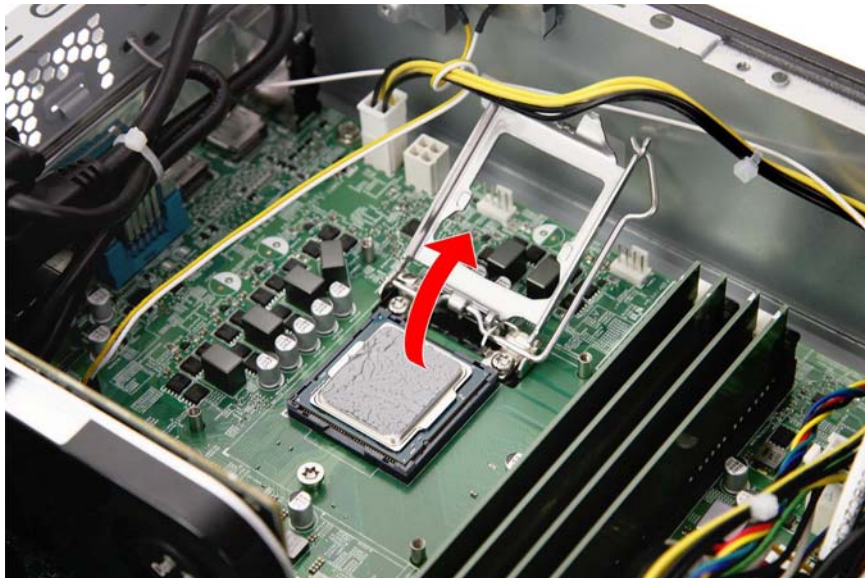
1. Press the load lever and move it to the right to release the load lever from the retention tab.
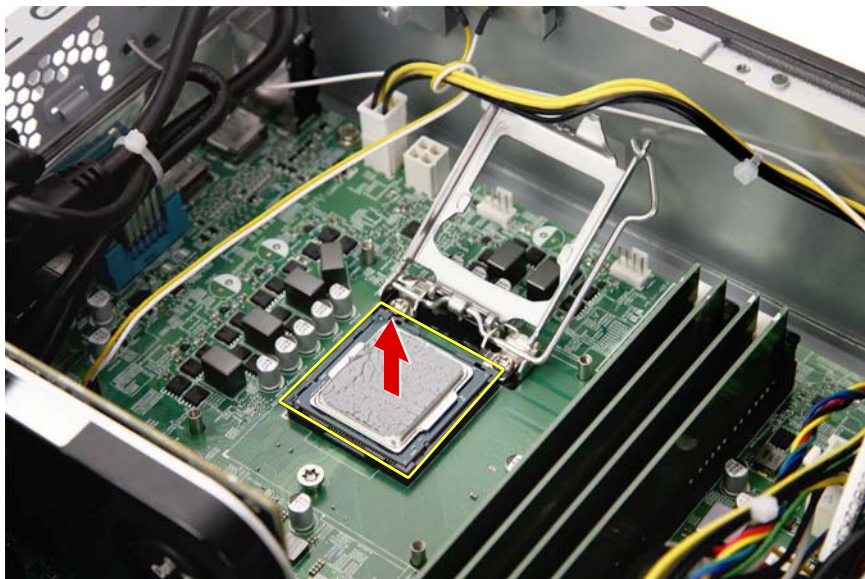

2. Pull the load lever to release the CPU cover plate from the retaining post.

3. Open the CPU cover plate.

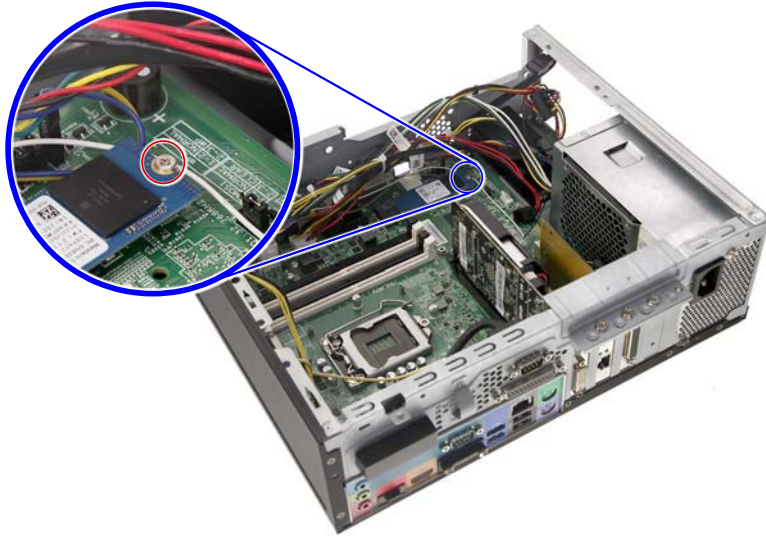**4.** Lift the processor from the socket.

⚠ Note: WEEE Annex VII component. A circuit board >10 cm2 has been highlighted with the yellow rectangle as shown above. Please follow local regulations for disposal of detached circuit boards.

Removing the Memory Modules

1. Press outward the holding clips on both sides of the DIMM slot to release the DIMM (**1**), then gently pull the DIMM upward to remove it from the mainboard (**2**).

Note: WEEE Annex VII component. A circuit board >10 cm2 has been highlighted with the yellow rectangle as shown above. Please follow local regulations for disposal of detached circuit boards.

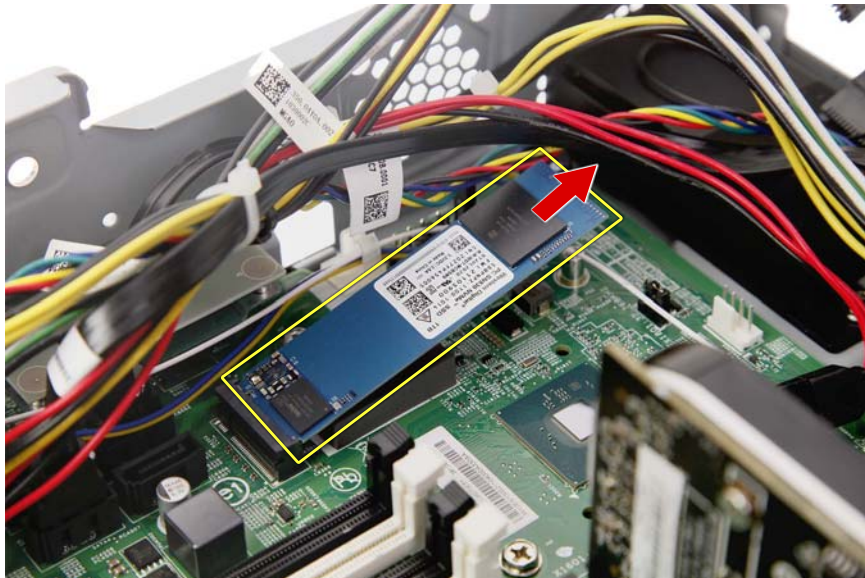2. Repeat Step 1 to remove the remaining memory modules.

Removing the SSD Module

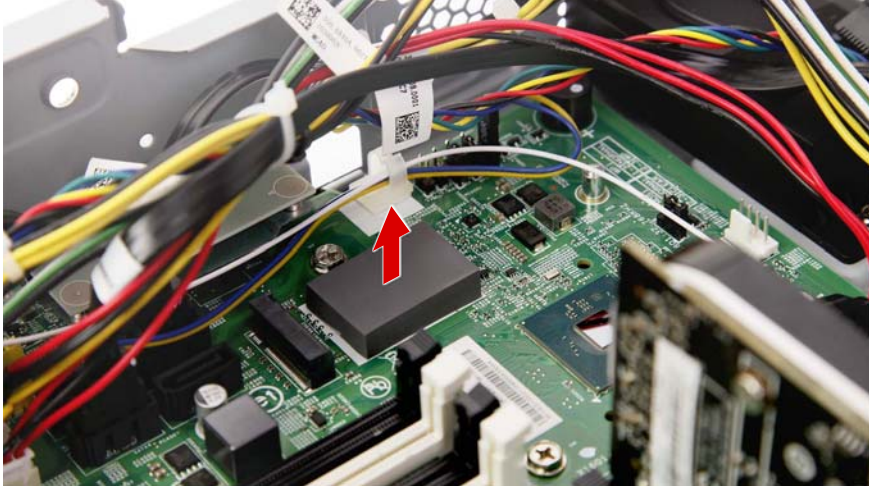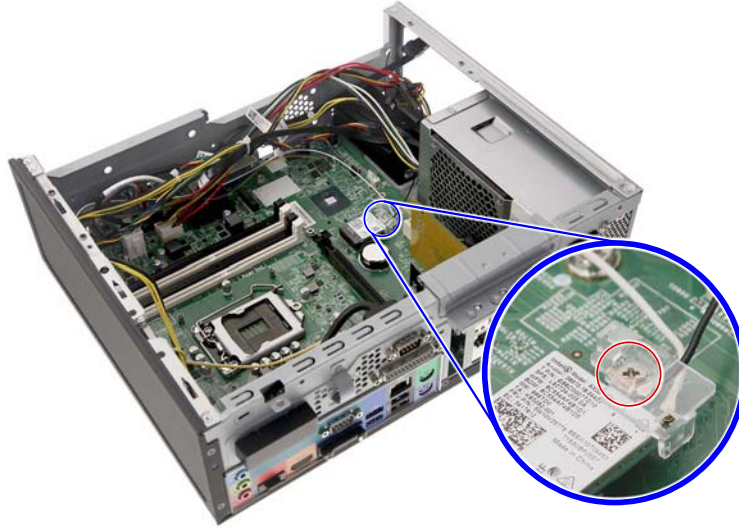1. Remove the screw securing the SSD module to the mainboard.

Quantity	Color	Torque	Part Number	Screw Type
1	Silver	1.5 ± 0.3 kgf-cm	86.VQXD1.001	

2. Remove the SSD module from the mainboard.

Note: WEEE Annex VII component. A circuit board >10 cm2 has been highlighted with the yellow rectangle as shown above. Please follow local regulations for disposal of detached circuit boards.

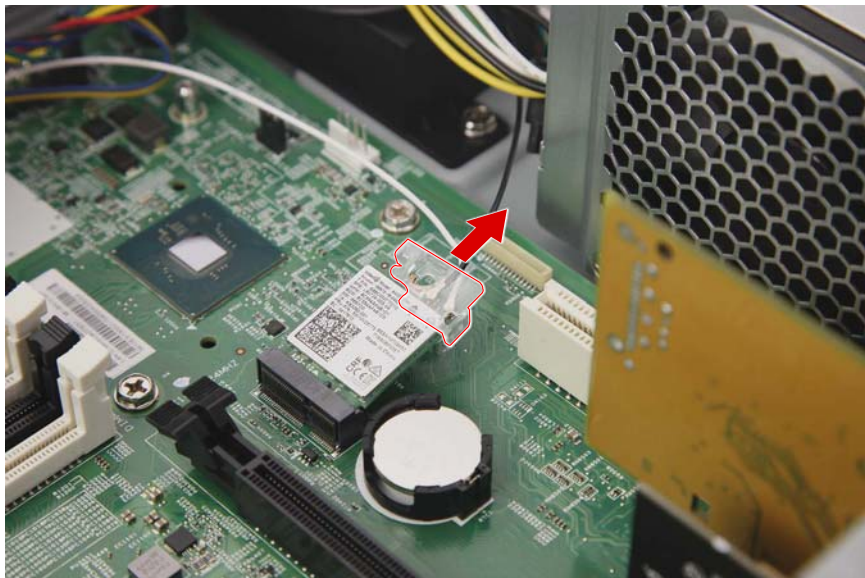**3.** Detach the thermal pad from the mainboard.

Removing the WLAN Module

1. Remove the screw securing the WLAN module to the mainboard.

Quantity	Color	Torque	Part Number	Screw Type
1	Silver	1.5 ± 0.3 kgf-cm	86.VQXD1.001	

2. Detach the WLAN bracket from the WLAN module.

3. Disconnect the WLAN antenna cables from the WLAN module.

NOTE: For reference during machine reassembly, note which cable color corresponds to the main and auxiliary connectors.

4. Remove the WLAN module from the mainboard.

Note: WEEE Annex VII component. A circuit board >10 cm2 has been highlighted with the yellow rectangle as shown above. Please follow local regulations for disposal of detached circuit boards.
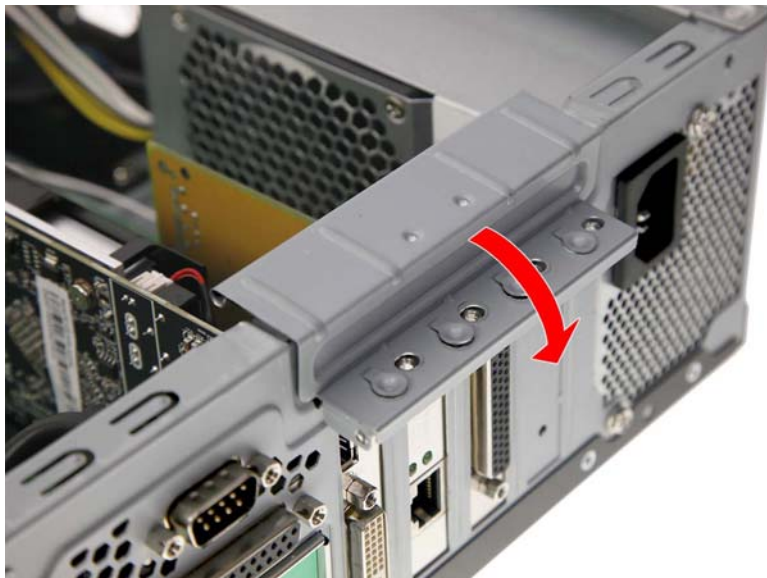
Removing the Expansion Boards

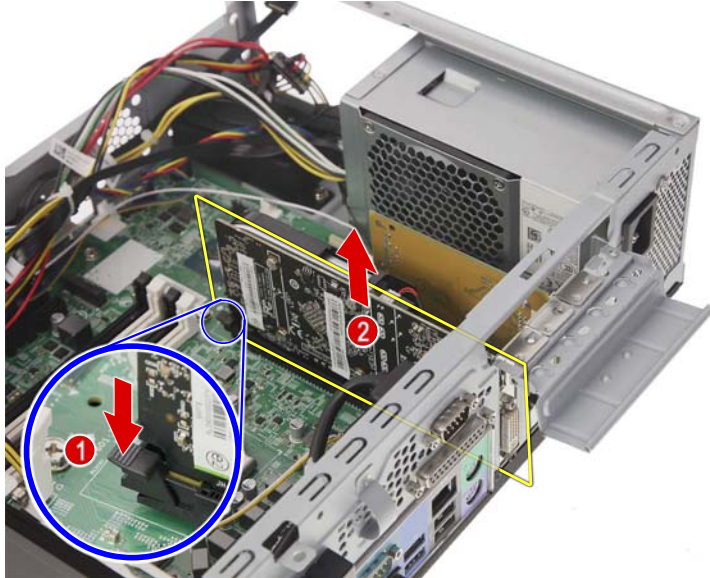1. Remove the three screws securing the expansion board brackets to the chassis.

Quantity	Color	Torque	Part Number	Screw Type
3	Silver	6.0 ± 0.5 kgf-cm	86.SPZD1.003	

2. Unlatch the metal clip securing the expansion board brackets to the chassis.

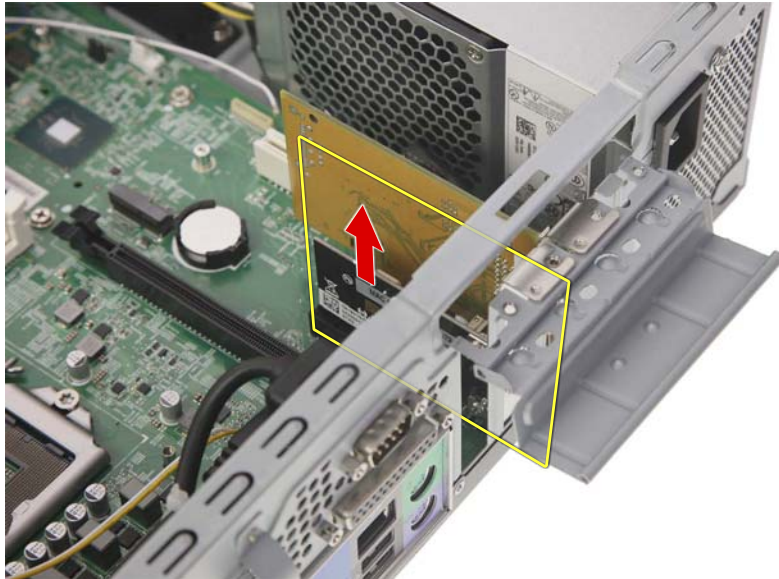**3.** Remove the PCIe x16 expansion board from its slot.

⚠️ Note: WEEE Annex VII component. A circuit board >10 cm2 has been highlighted with the yellow rectangle as shown above. Please follow local regulations for disposal of detached circuit boards.
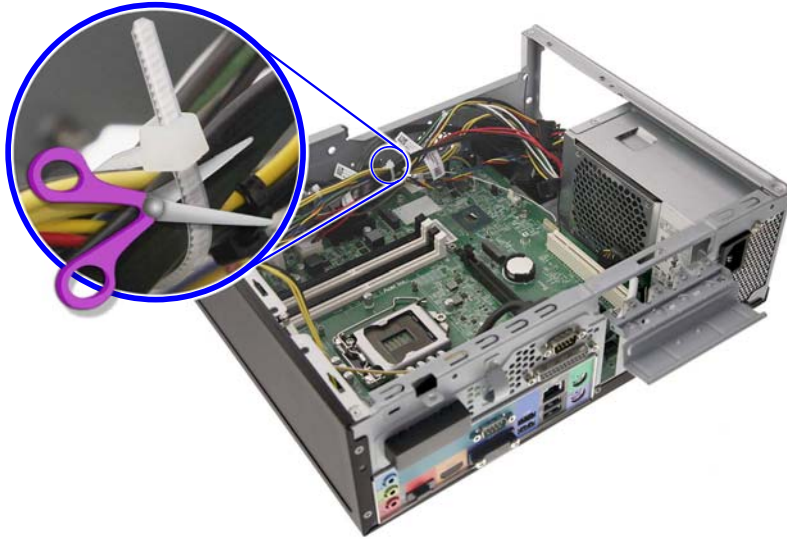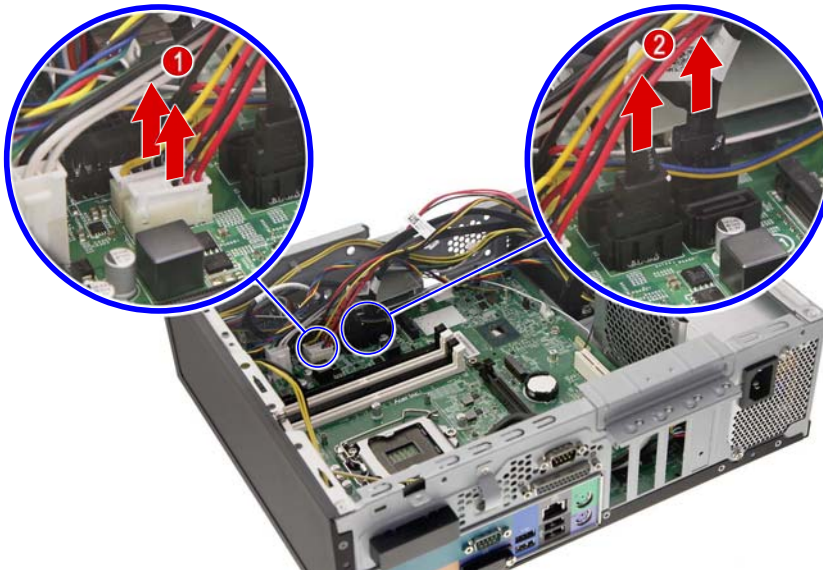
4. Remove the PCIe x1 expansion board (RJ45 port) from its slot.

⚠️ Note: WEEE Annex VII component. A circuit board >10 cm2 has been highlighted with the yellow rectangle as shown above. Please follow local regulations for disposal of detached circuit boards.

5. Remove the PCIe x1 expansion board (parallel port) from its slot.

Note: WEEE Annex VII component. A circuit board >10 cm2 has been highlighted with the yellow rectangle as shown above. Please follow local regulations for disposal of detached circuit boards.

Removing the HDD and ODD Power and Data Cables
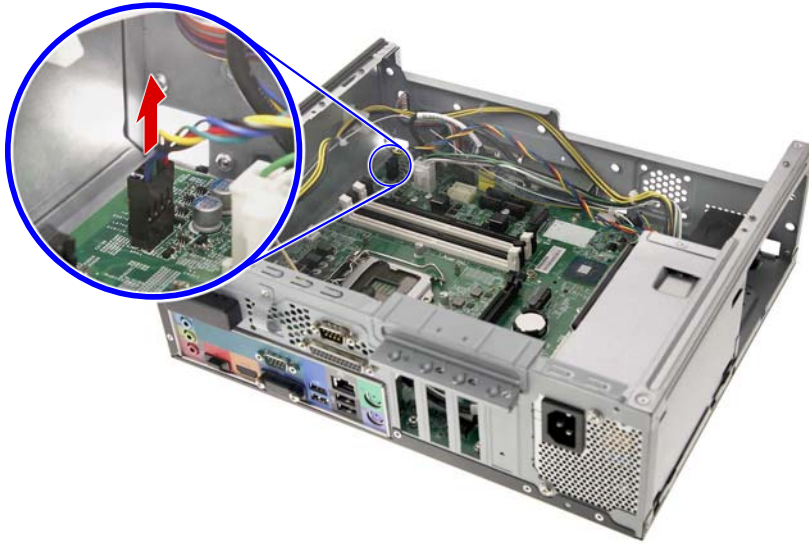
1. Release the cables from the cable tie.

2. Disconnect and remove the HDD and ODD power and data cables from the mainboard.
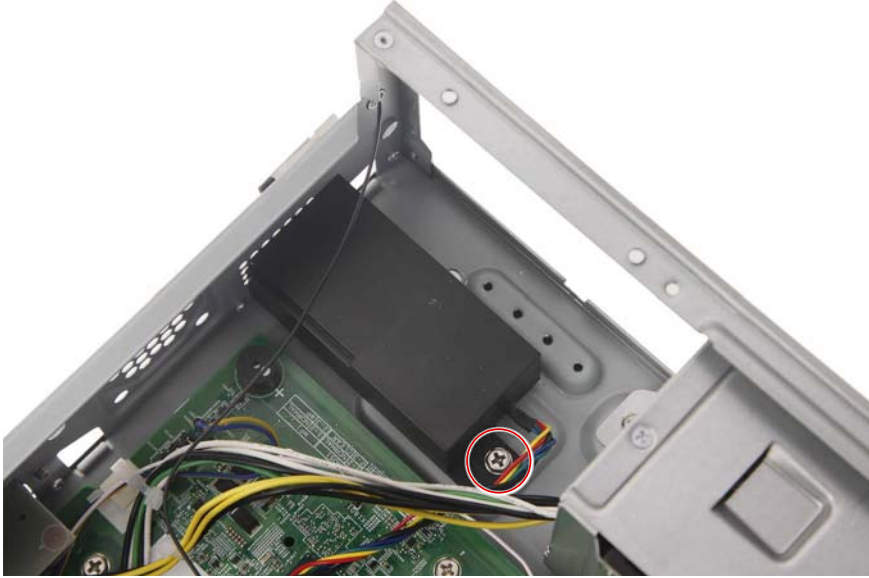
Removing the Speaker

1. Disconnect the speaker cable from the mainboard.

2. Release the WLAN cable from the adhesive tape securing it to the speaker.

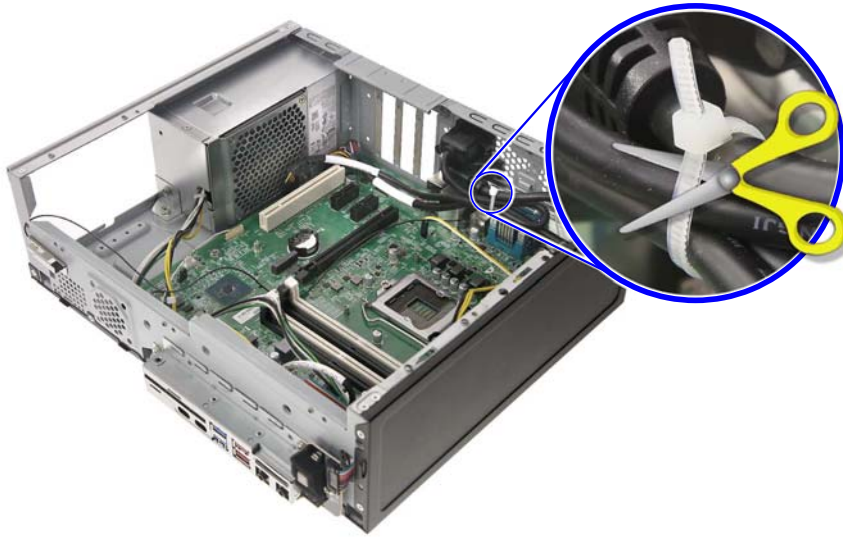**3.** Remove the screw securing the speaker to the chassis.

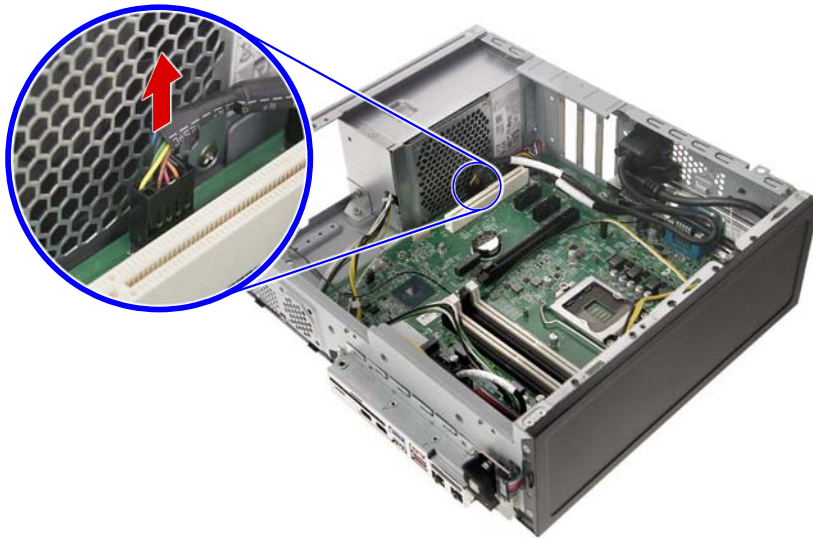| Quantity	Color	Torque	Part Number	Screw Type
1	Silver	6.0 ± 0.5 kgf-cm	86.SPZD1.003	

4. Detach the speaker from the chassis.

Removing the COM Port Cable

1. Release the COM port and Parallel port cables from the cable tie.

2. Disconnect the COM port cable from the mainboard.

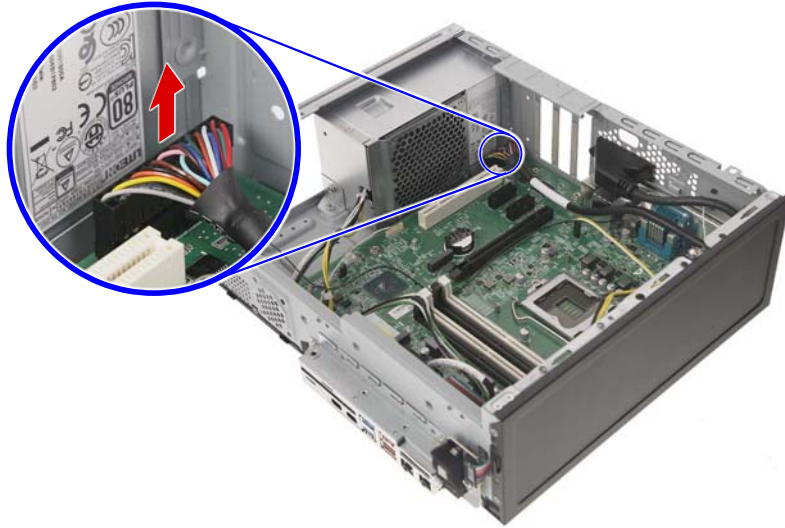**3.** Remove the two screws securing the COM port cable to the chassis.

Quantity	Color	Torque	Part Number	Screw Type
2	Silver	4.5 ± 0.3 kgf-cm	N/A	

4. Detach the COM port cable from the chassis.

Removing the Parallel Port Cable

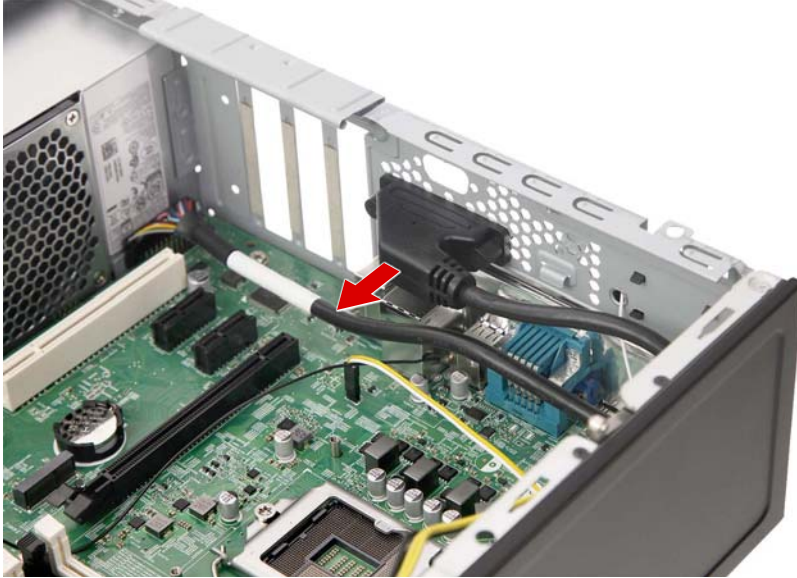1. Disconnect the Parallel port cable from the mainboard.

2. Remove the two screws securing the Parallel port cable to the chassis.

Quantity	Color	Torque	Part Number	Screw Type
2	Silver	4.5 ± 0.3 kgf-cm	N/A	

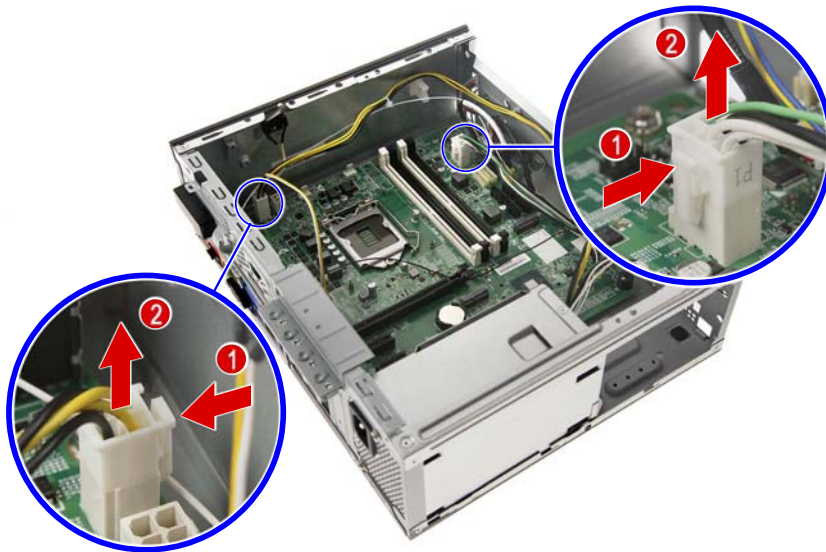**3.** Detach the Parallel port cable from the chassis.
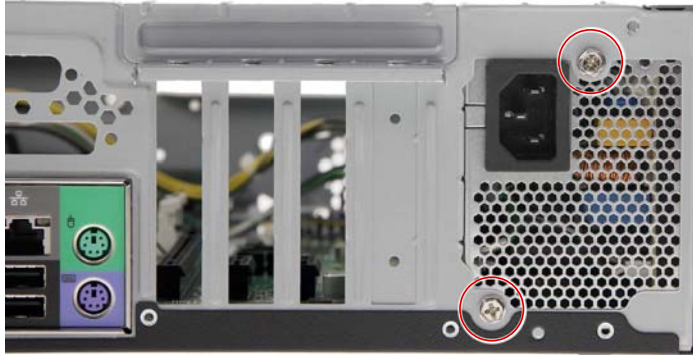
Removing the Power Supply Module

1.   Release the power supply cables from the plastic clip securing them to the chassis.

2.   Disconnect the power supply cables from the mainboard.

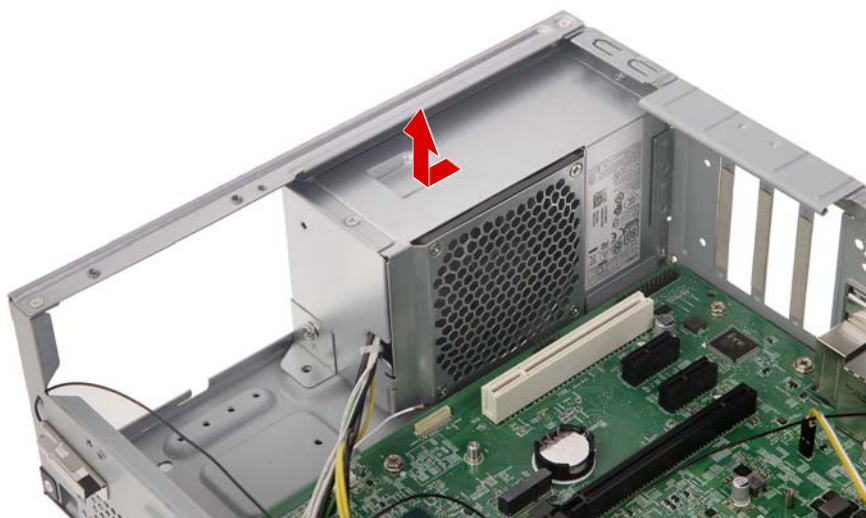**3.** Remove the two screws securing the rear end of the power supply module to the chassis.

Quantity	Color	Torque	Part Number	Screw Type
2	Silver	6.0 ± 0.5 kgf-cm	86.SPZD1.003	

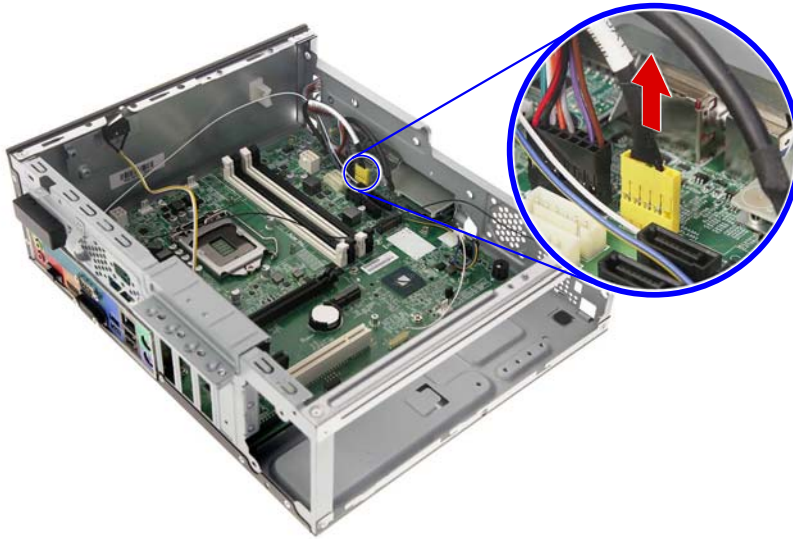**4.** Remove the screw securing the front end of the power supply module to the chassis.

Quantity	Color	Torque	Part Number	Screw Type
1	Silver	6.0 ± 0.5 kgf-cm	86.SPZD1.003	

5. Pull the power supply module out of the chassis.

Removing the Front I/O Assembly
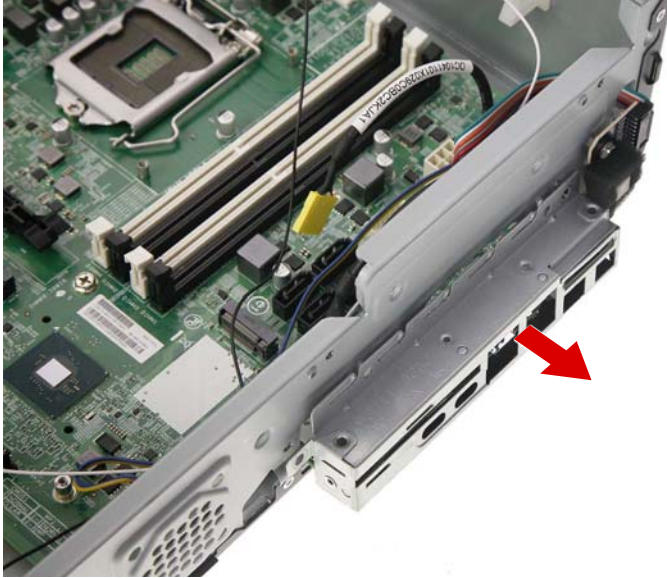
1. Disconnect the front I/O cable from the mainboard.

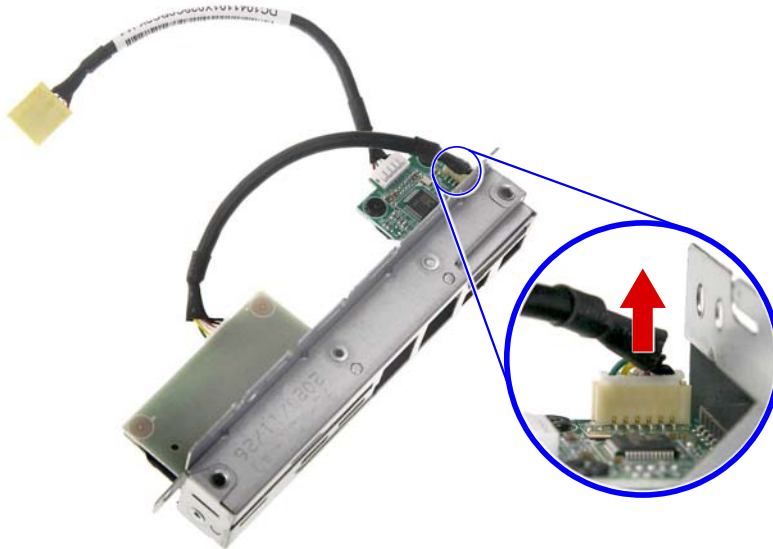2. Remove the two screws securing the front I/O bracket to the chassis.

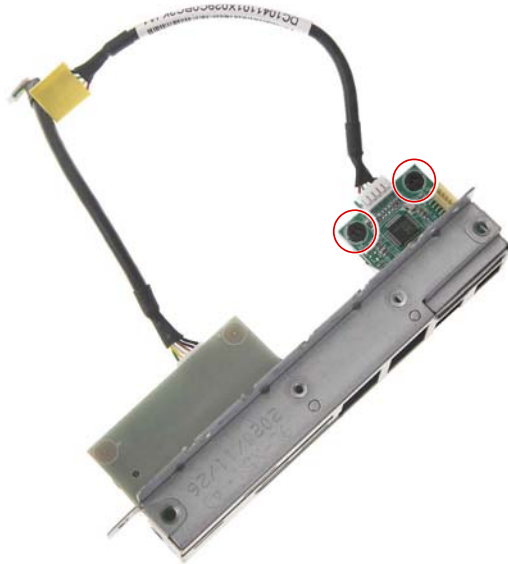| Quantity	Color	Torque	Part Number	Screw Type
2	Silver	6.0 ± 0.5 kgf-cm	86.SPZD1.003	

3. Pull the bracket with the cables out of the chassis.

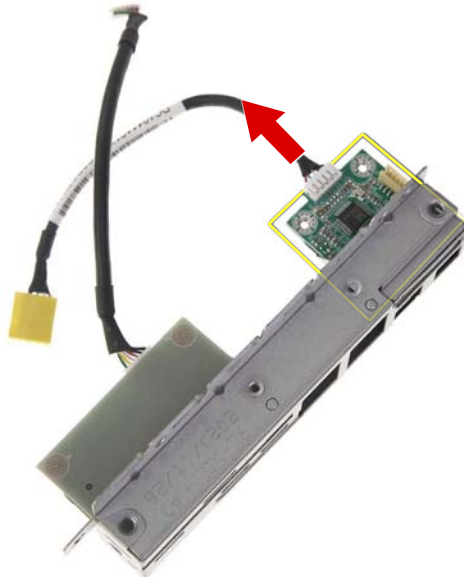**4.** Disconnect the smart card cable from the SD card reader board.

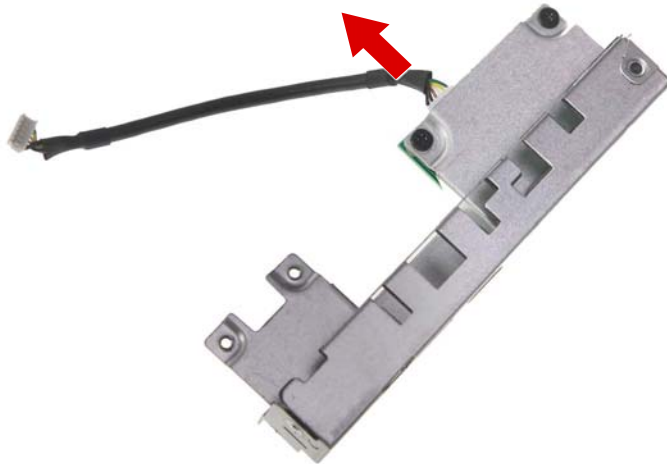**5.** Remove the two screws securing the SD card reader board to the bracket.

Quantity	Color	Torque	Part Number	Screw Type
2	Black	6.0 ± 0.5 kgf-cm	86.BA8D1.001	

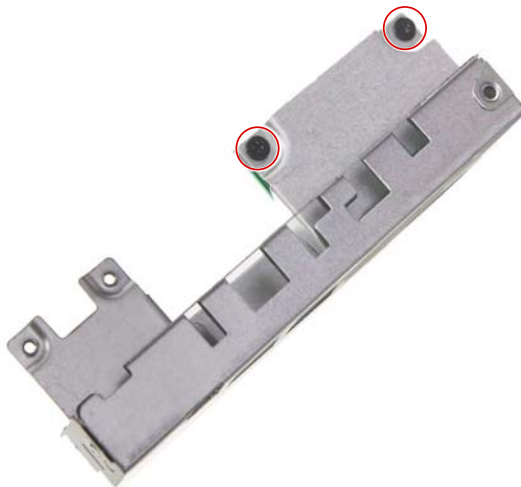**6.** Remove the SD card reader board from the bracket.

Note: WEEE Annex VII component. A circuit board >10 cm2 has been highlighted with the yellow rectangle as shown above. Please follow local regulations for disposal of detached circuit boards.

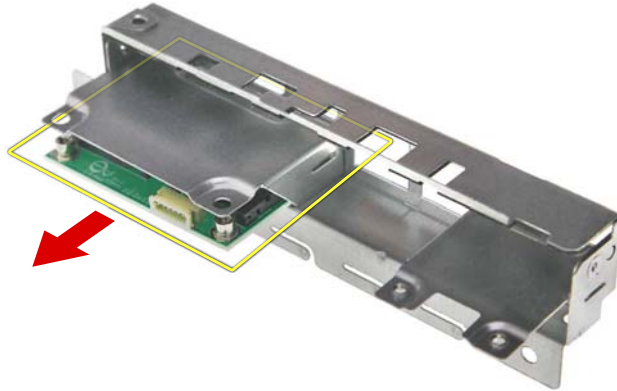**7.** Disconnect the smart card cable from the smart card reader board.

8. Remove the two screws securing the smart card reader board to the bracket.

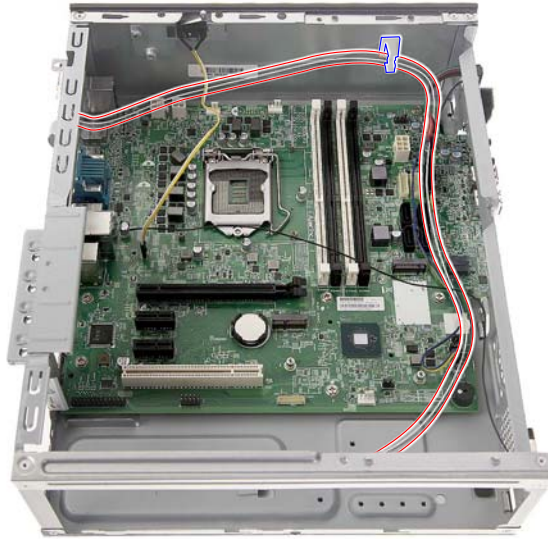| Quantity	Color	Torque	Part Number	Screw Type
2	Black	6.0 ± 0.5 kgf-cm	86.BA8D1.001	

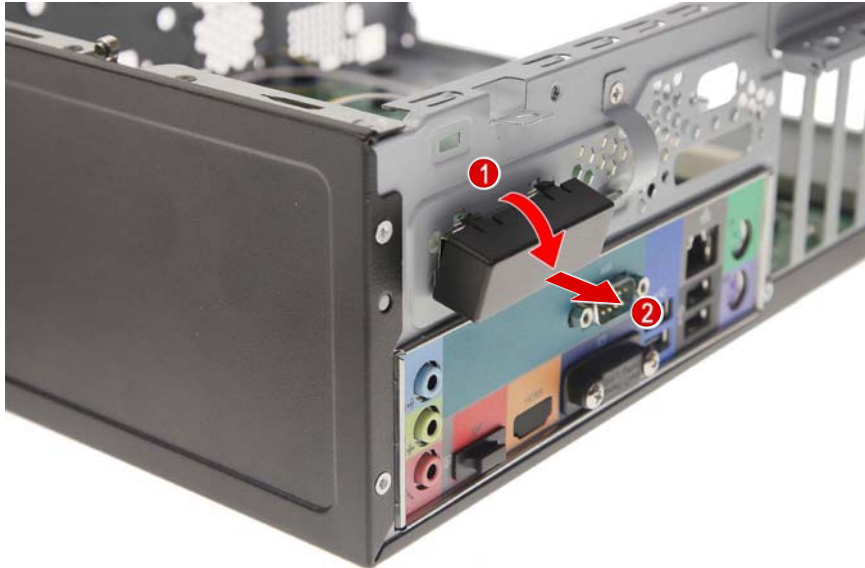**9.** Remove the SD card reader board from the bracket.

Note: WEEE Annex VII component. A circuit board >10 cm2 has been highlighted with the yellow rectangle as shown above. Please follow local regulations for disposal of detached circuit boards.
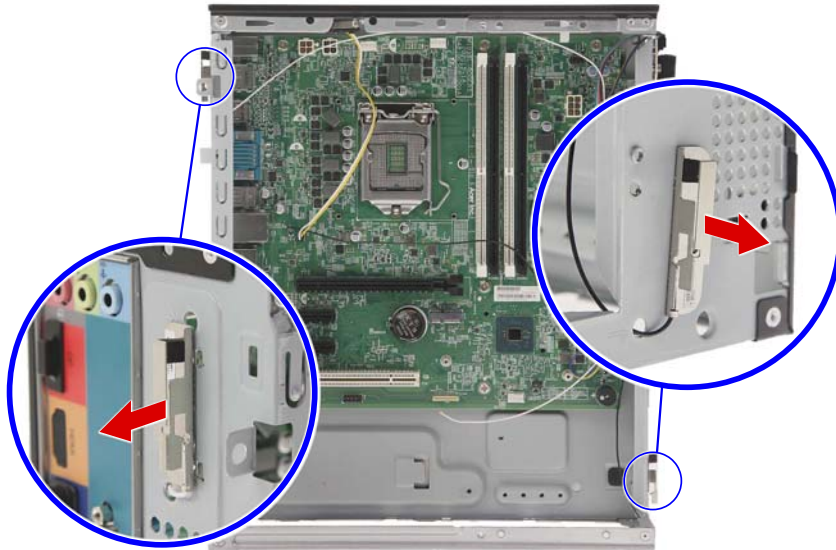
Removing the WLAN Antenna Cables

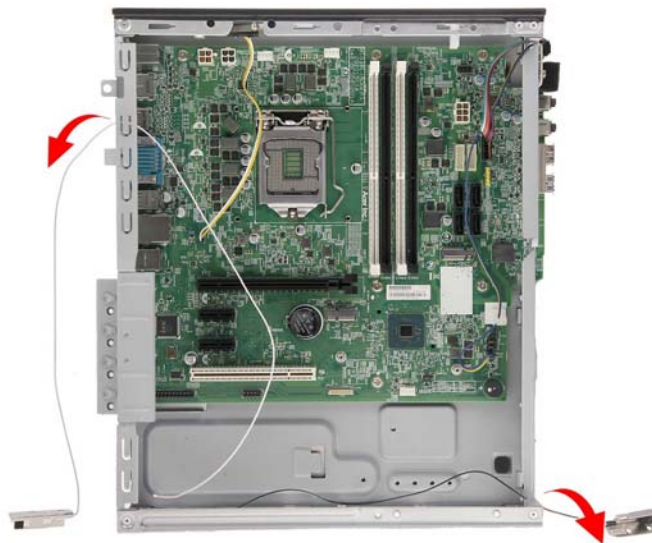1. Release the WLAN antenna cable from the plastic clip securing it to the chassis.

2. Detach the WLAN antenna cover from the chassis.

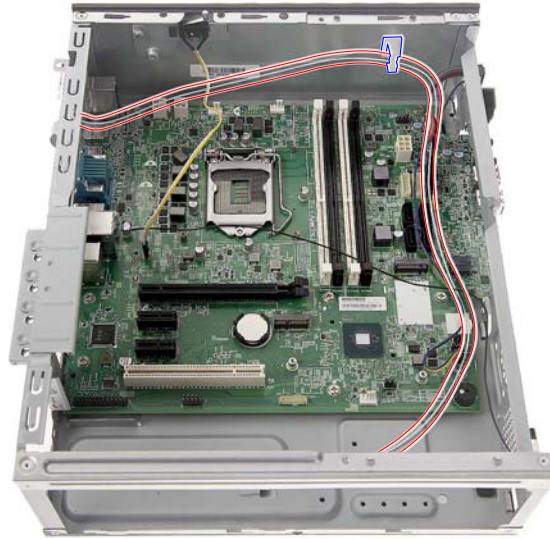**3.** Gently peel off the WLAN antenna from the chassis.

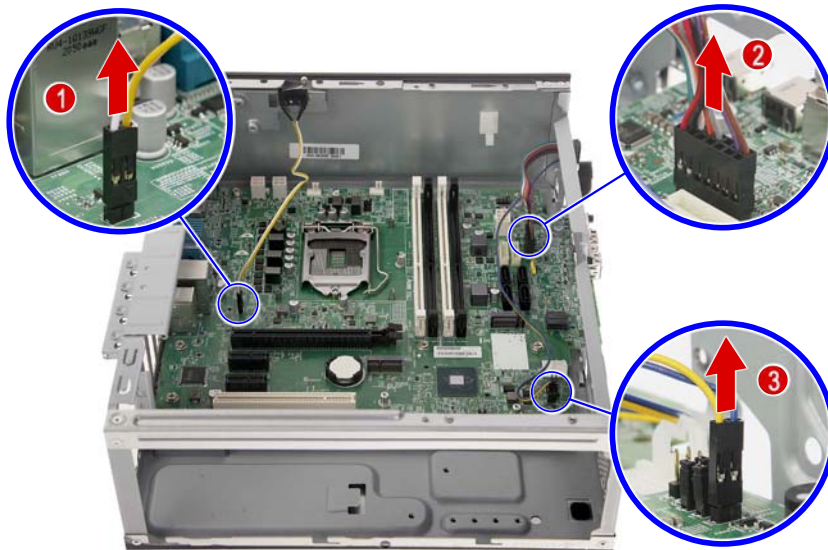**4.** Pull and remove the WLAN antenna cables from the chassis.

Removing the Mainboard

1. Release the OBR cable from the plastic clip securing it to the mainboard.

2. Disconnect the chassis intrusion, power button/LED and OBR cables from the mainboard.

3. Remove the two screws securing the VGA cover to the VGA connector.
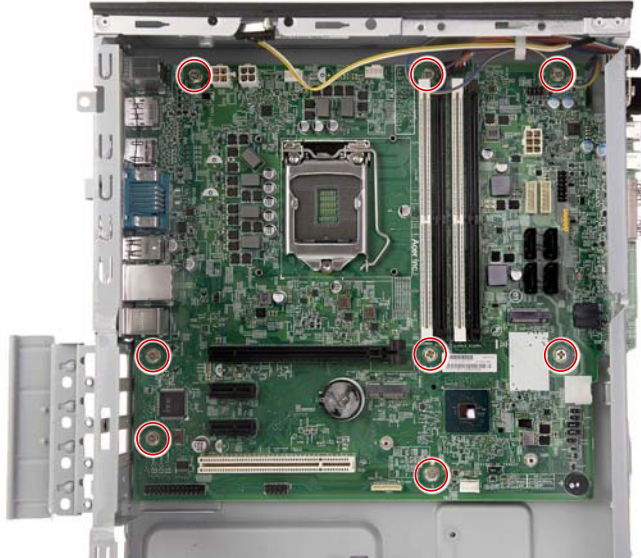

Quantity	Color	Torque	Part Number	Screw Type
2	Silver	4.0 ± 0.5 kgf-cm	86.VQWD1.002	

4. Detach the VGA cover from the VGA connector.

5. Remove the eight screws securing the mainboard to the chassis.

Quantity	Color	Torque	Part Number	Screw Type
8	Silver	6.0 ± 0.5 kgf-cm	86.SPZD1.003	

6. Slide the mainboard towards the front of the system to disengage the ports from the rear I/O bracket.
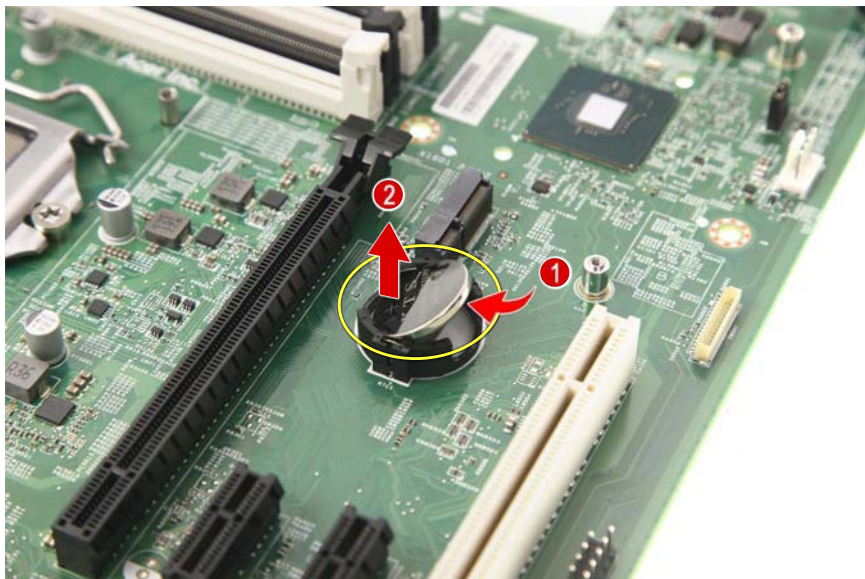
7. Gently lift the board off the chassis.

⚠ Note: WEEE Annex VII component. A circuit board >10 cm2 has been highlighted with the yellow rectangle as shown above. Please follow local regulations for disposal of detached circuit boards.

8. Gently push the RTC battery sideways (**1**), then lift it off the mainboard (**2**).

⚠ Note: WEEE Annex VII component. The RTC battery has been highlighted with the yellow circle as shown above. Please follow local regulations for disposal of used batteries.

⚠ Caution: Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to the instructions.