

Dell OptiPlex FX170 Motherboard Replacement

Replacing the motherboard in the unit.

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INTRODUCTION

The motherboard replacement for the OptiPlex FX170, compared to other computers, is actually rather painless. One should, however, be familiar with preventing electro-static dischage (ESD) damage to electronics.



TOOLS:

- Phillips #0 Screwdriver (1)
- Spudger (1)
- Phillips #00 Screwdriver (1)
- Tweezers (1)

Step 1 — Case



- With the base stand facing upwards, unscrew the 6mm Phillips #2 screw.
- Pull the base stand straight up from the device.

Step 2





 Unscrew and remove the eight 4mm Phillips #0 screws (four on top, four on bottom) from the top and bottom of the device.

Step 3

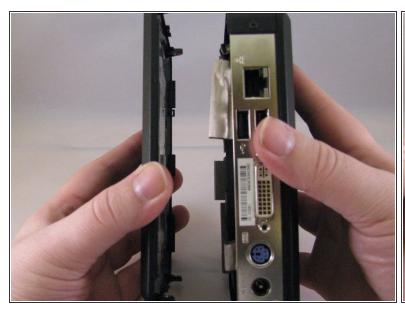






- Run the flat side of the spudger along the entire line of the case starting from the back where the power plug and a small screw are located.
- Use care to not apply excessive force that could damage retaining clips while running the spudger along the case.

Step 4

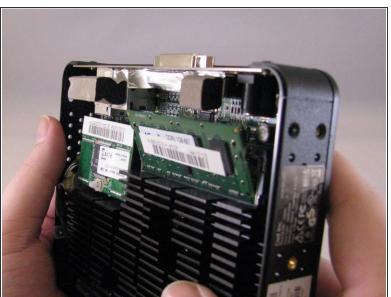




 Once the clips have been released, gently disengage the cover from the rest of case by pulling in opposite directions.

Step 5 — RAM





 Using fingers, push the clips on either side of the RAM. The RAM will pop up at a 45 degree angle when both clips are disengaged.

Step 6



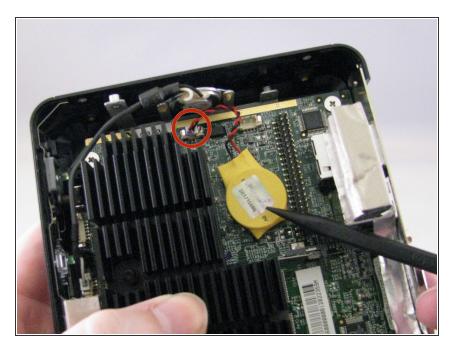
Lift and pull out the RAM.

Step 7 — Memory Board



 Using the spudger, gently push on the underside of the memory board to loosen it. Gently grasp each side and pull up to release the memory board.

Step 8 — CMOS Battery



 To remove the battery, pull up on the connector that is plugged into the motherboard.

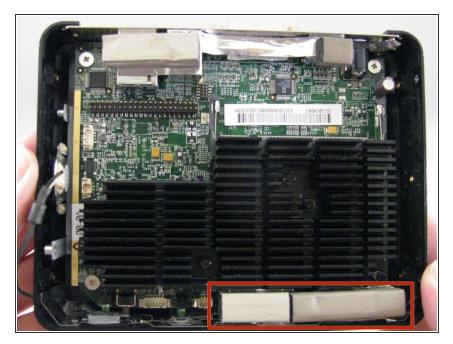
Step 9 — **Motherboard**





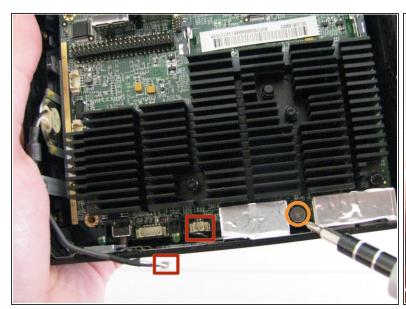
Remove the two 4mm Phillips #00 screws that are along the back of the case.

Step 10



 Remove the two foam bumpers that lie on top of the two front USB ports with fingers. Do not throw them away.

Step 11





- Disconnect the speaker cable from the motherboard by gently pulling it straight up to disengage it from the port.
- Remove the four 4mm Philips #0 screws that secure the motherboard to the case.
- i The screw in the corner where the RAM is located is covered by a small piece of Mylar tape, peel this tape back to reveal the screw. The tweezers can be helpful for this.

Step 12







- Gently grasp the motherboard by the heat sink (the black finned piece). Lift the motherboard at an angle such that the ports along the back side come up first.
- Continue lifting the motherboard, then slowly tilt the piece off to the right to break the Mylar tape over the front USB ports.
- Be careful when handling the motherboard to prevent electro-static discharge (ESD) damage. If the motherboard is being removed as part of a prerequisite, place the motherboard into a bag designed to prevent a build up of a static charge (usually referred to as a static bag).

To reassemble your device, follow these instructions in reverse order.