UNDER4L

Assembly Guide

3.73L Mini-ITX SFF Case · 19-step build

WHAT YOU NEED

QUANTITY & TYPE	USED FOR
10 x M3 x 6mm	Motherboard, GPU bracket, and outer shell
4 x PSU screws	Flex ATX PSU (came with the PSU)

Different screws work as long as the threaded portion matches an M3. The head shape can vary.

BEFORE YOU START

Work on a clean, well-lit surface. Keep the screw bag close. Follow the steps in order. Each photo matches its step number. Snug the screws by hand. Do not crank them.

1

STEP 1

Install the I/O shield



Figure 1 - Install the I/O shield

Press the I/O shield into the rectangular cutout on the back of the case from the inside. Line up the port labels so they read correctly from outside. Push each corner until the metal clicks flat against the opening. The shield should sit flush with no gaps.

STEP 2

2 Pass the riser through the opening

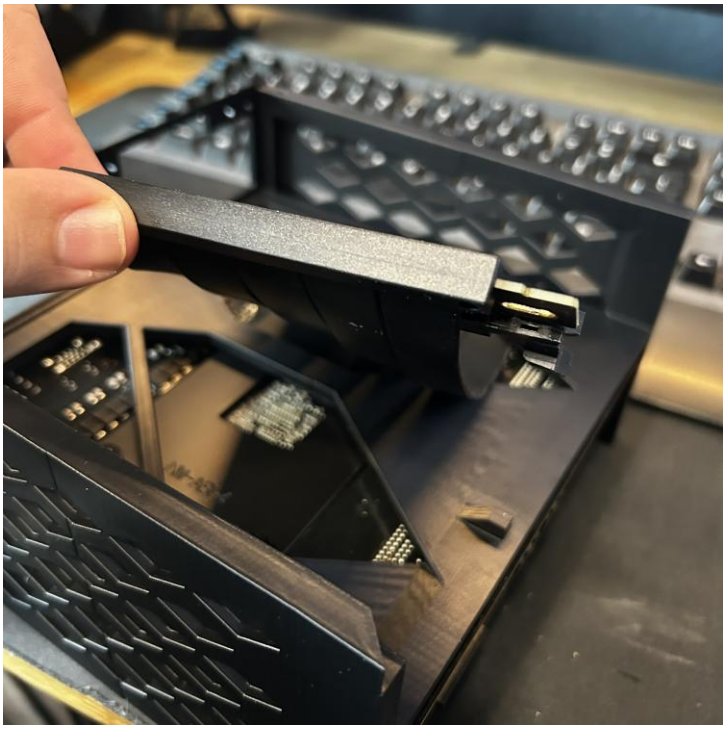

Figure 2 - Pass the riser through the opening

Feed the PCIe riser cable through the slot on the case floor so the riser bracket sits where the motherboard will go. The flat ribbon side faces down, the connector faces up. Leave enough slack so you can still work around the motherboard area.

3

STEP 3

Screw in the motherboard

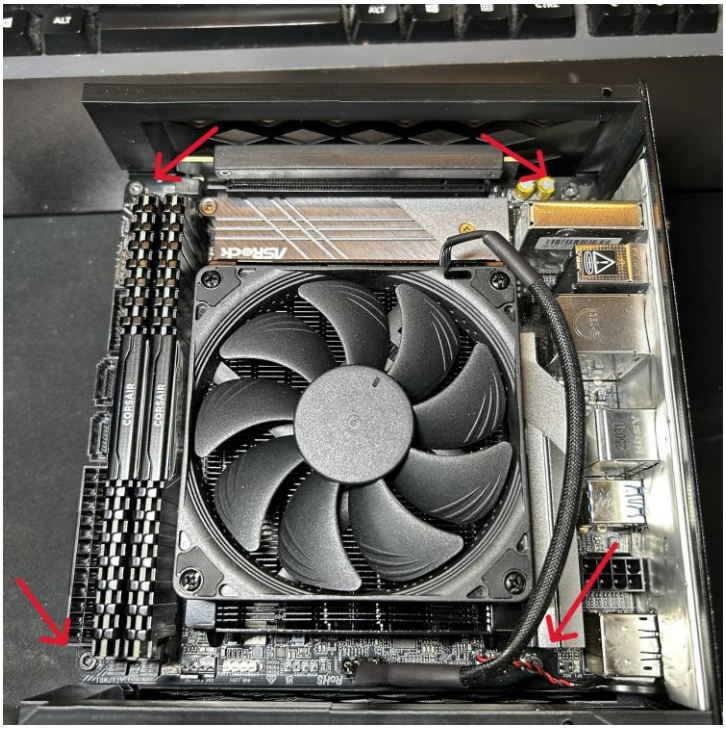

Figure 3 - Screw in the motherboard

Lower the motherboard onto the standoffs, lining up the rear I/O with the shield. Push it gently toward the I/O until the ports poke through. Drive four M3 x 6mm screws into the corners shown by the red arrows. Snug, not cranked.

STEP 4

4 Attach the GPU to the riser

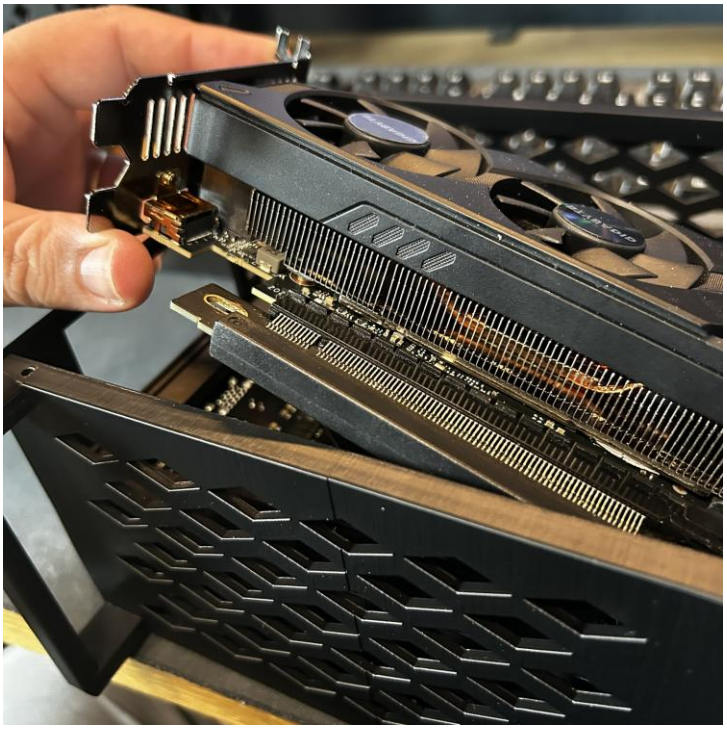

Figure 4 - Attach the GPU to the riser

Hold the GPU at an angle and slide the gold contacts into the riser connector. Push straight down until the latch clicks. Check that the card is seated evenly across the full length of the slot.

5

STEP 5

Pass the GPU through the back slit



Figure 5 - Pass the GPU through the back slit

Guide the GPU bracket through the rear slit in the case so the display outputs face outside. The card pivots into position as it goes through. Keep the riser flat underneath so nothing bends.

6

STEP 6

Push the GPU back and screw it in

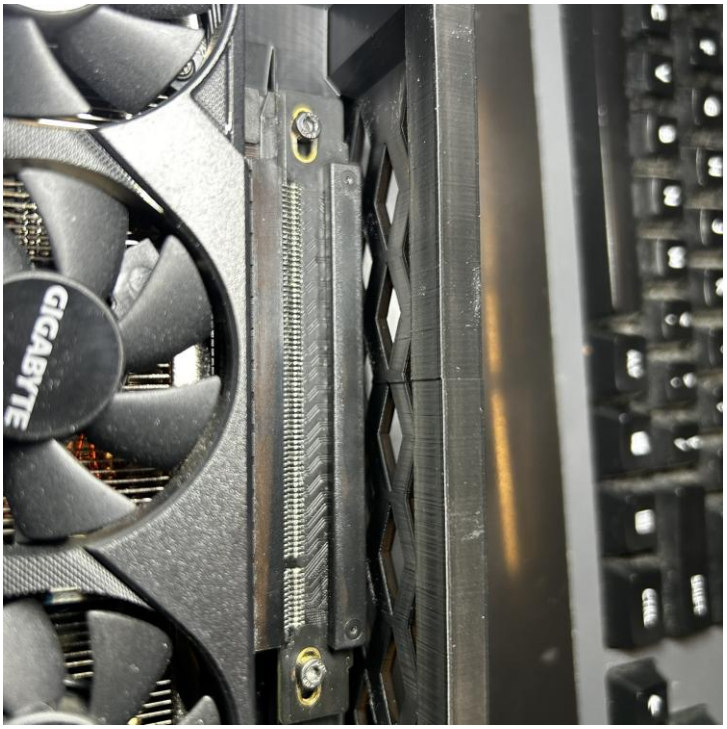

Figure 6 - Push the GPU back and screw it in

Slide the GPU toward the rear of the case until the bracket sits flush against the mounting tab. Drive two M3 x 6mm screws through the bracket holes. The card should not move when you wiggle it.

7

STEP 7

Slide the PSU into place

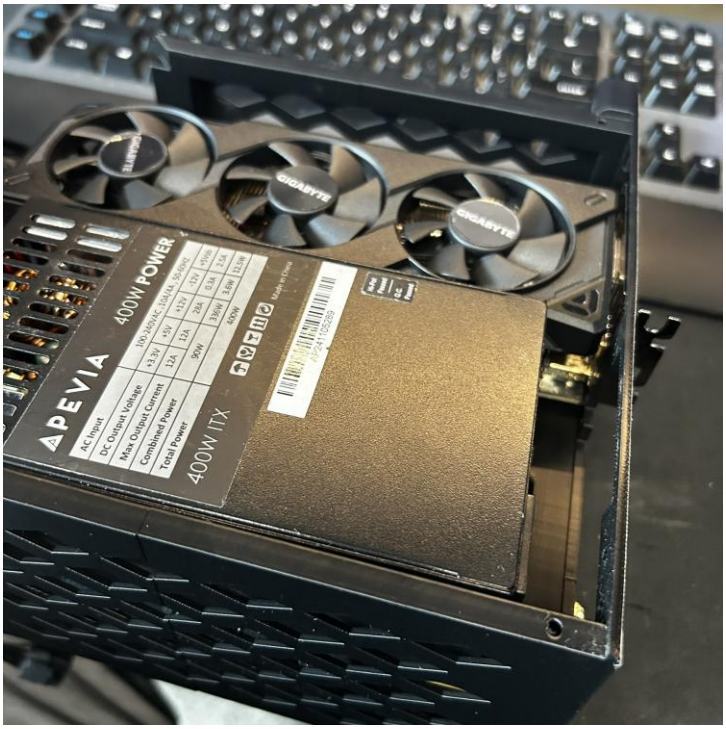

Figure 7 - Slide the PSU into place

Lower the Flex ATX PSU into the slot above the GPU with the label facing up and the fan facing into the case. The IEC inlet should point toward the rear of the case.

STEP 8

8 Confirm the PSU sits flush



Figure 8 - Confirm the PSU sits flush

Check that the IEC inlet and the PSU fan grille line up cleanly with the cutouts on the back panel. If there is a gap or the inlet looks crooked, pull the PSU forward and reseat it before screwing anything down.

9

STEP 9

Screw in the PSU



Figure 9 - Screw in the PSU

Drive four standard PSU screws through the back panel into the threaded holes on the PSU body. These are not M3, they came with the PSU. Tighten in a cross pattern so the unit pulls in evenly.

10

STEP 10

Route the CPU power cable

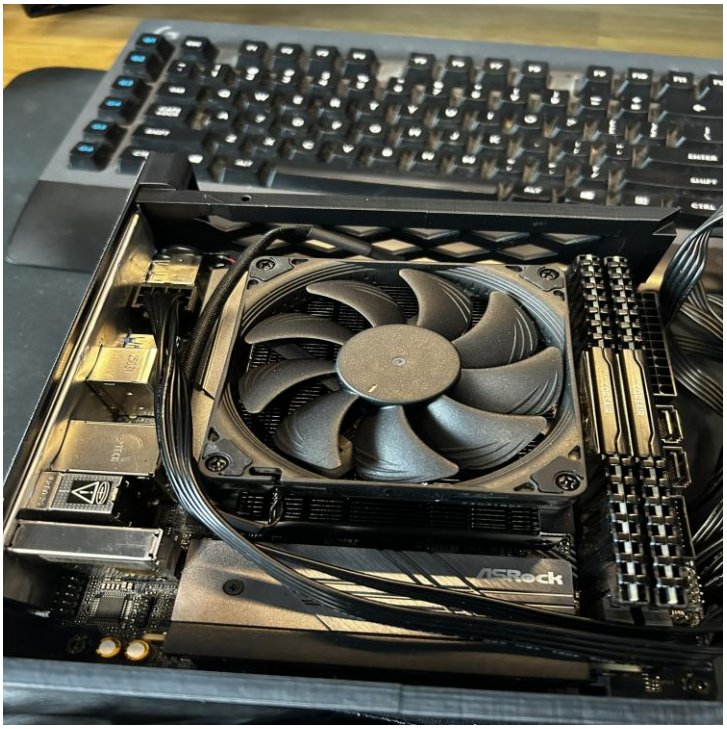

Figure 10 - Route the CPU power cable

Run the 8-pin (or 4+4) CPU power cable from the PSU up along the side of the motherboard to the EPS connector near the top. Press the connector in until the clip locks.

11

STEP 11

Connect the GPU and motherboard to the PSU

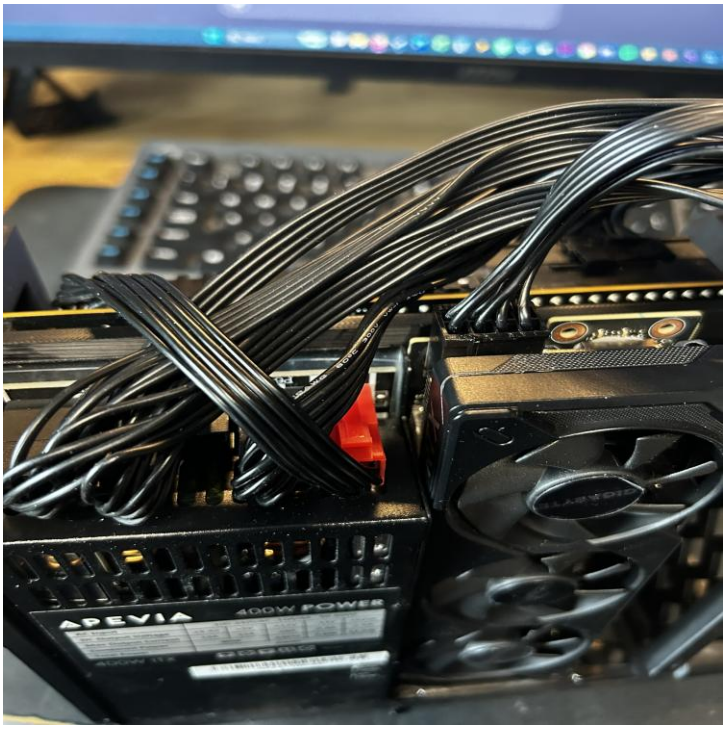

Figure 11 - Connect the GPU and motherboard to the PSU

Plug the 24-pin ATX cable into the motherboard. Plug the PCIe power cable into the GPU. Make sure each connector clicks. Tuck the excess cable so it does not block the GPU fans.

12

STEP 12

Route the extra PSU cable under the GPU

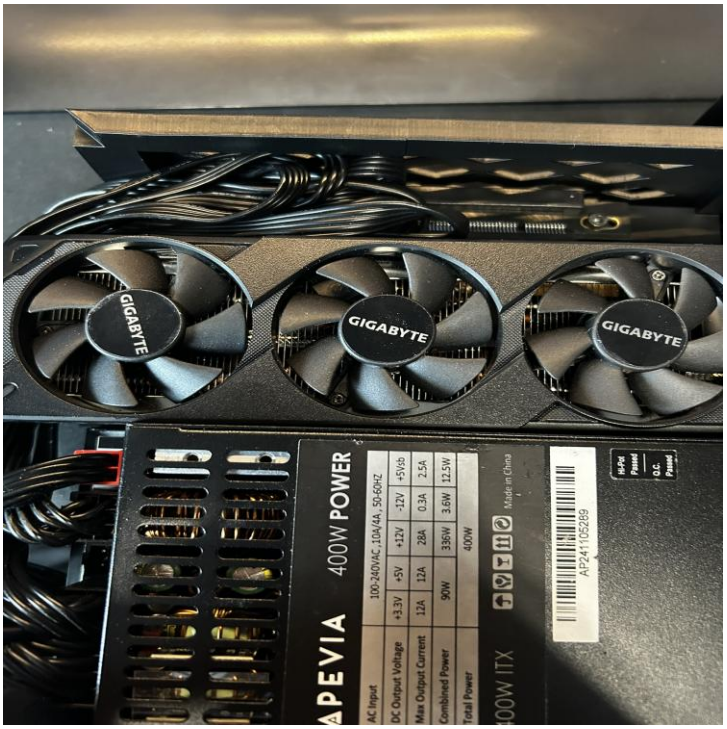

Figure 12 - Route the extra PSU cable under the GPU

Take whatever PSU cable slack is left and run it through the open area beneath the GPU. Keep it clear of the GPU fan blades and away from the heatsink fins.

13

STEP 13

Slide the power button into the shell slit

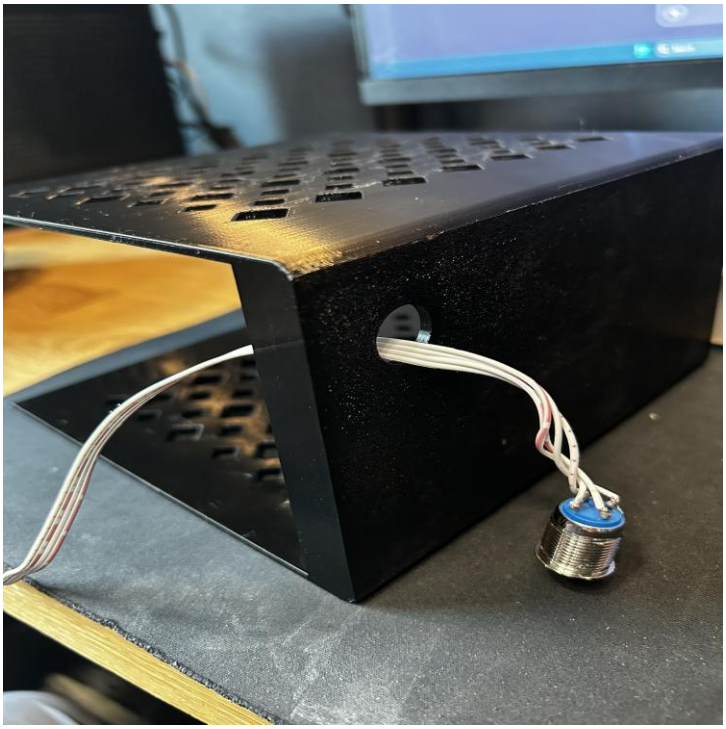

Figure 13 - Slide the power button into the shell slit

Push the threaded barrel of the power button through the small round hole on the side of the shell, from the outside in. The button face stays outside, the wired side goes inside.

14

STEP 14

Tighten the nut on the power button

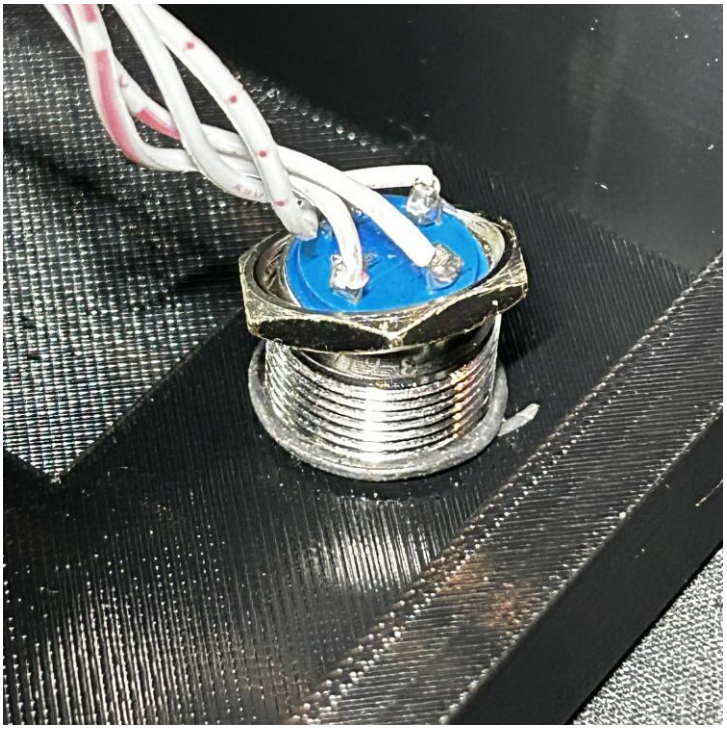

Figure 14 - Tighten the nut on the power button

From inside the shell, thread the nut onto the back of the power button barrel. Spin it down by hand until it grabs, then snug it with pliers or a small wrench.

15

STEP 15

Confirm the button is tight and flush

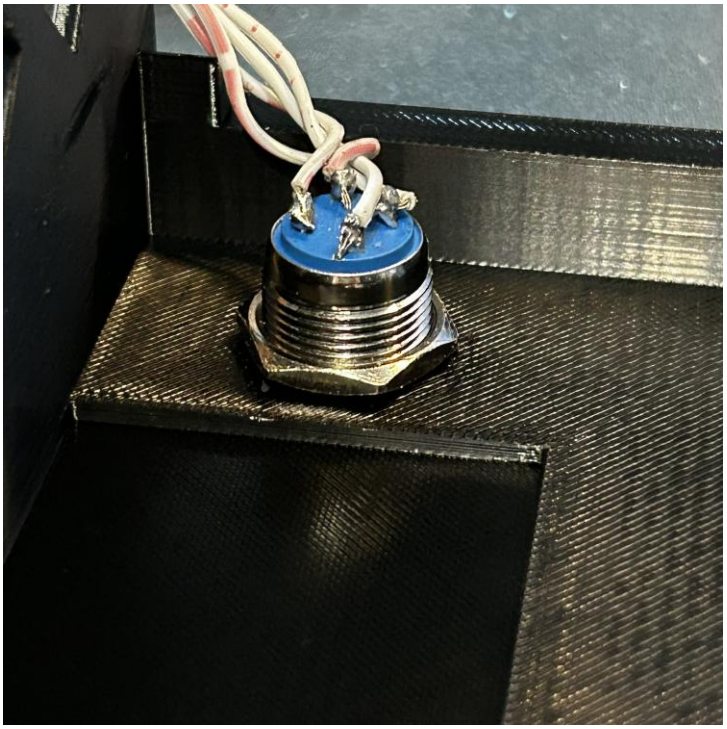

Figure 15 - Confirm the button is tight and flush

Press the button face from outside. It should not shift, rotate, or sink into the shell. If it wobbles, tighten the nut a bit more.

16

STEP 16

Connect the power button to the motherboard



Figure 16 - Connect the power button to the motherboard

Run the two-wire lead from the power button to the front panel header on the motherboard. Match the pins labeled POWER SW on the board. Polarity does not matter for the switch itself.

17

STEP 17

Slide the shell over the case



Figure 17 - Slide the shell over the case

Lower the outer shell down over the inner frame. Line up the screw holes on top before pushing all the way down. The shell should drop the last few millimeters under its own weight.

18

STEP 18

Insert and tighten a shell screw



Figure 18 - Insert and tighten a shell screw

Drive an M3 x 6mm screw through the top corner of the shell into the threaded hole on the frame. Hand tight is enough.

19

STEP 19

Repeat on the other side



Figure 19 - Repeat on the other side

Drive the matching M3 x 6mm screw into the corner on the opposite side. The case is now closed.