

wonky

build guide

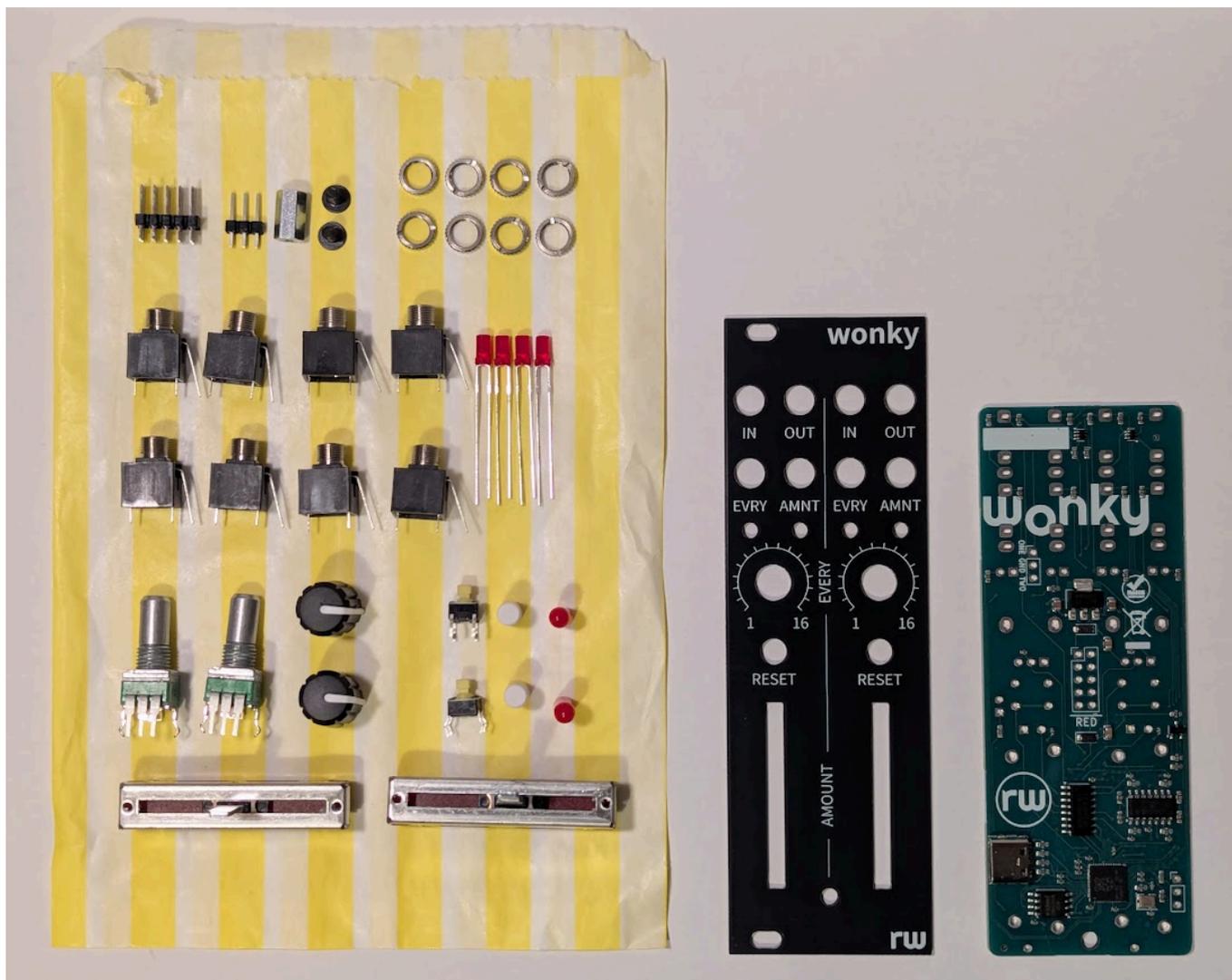


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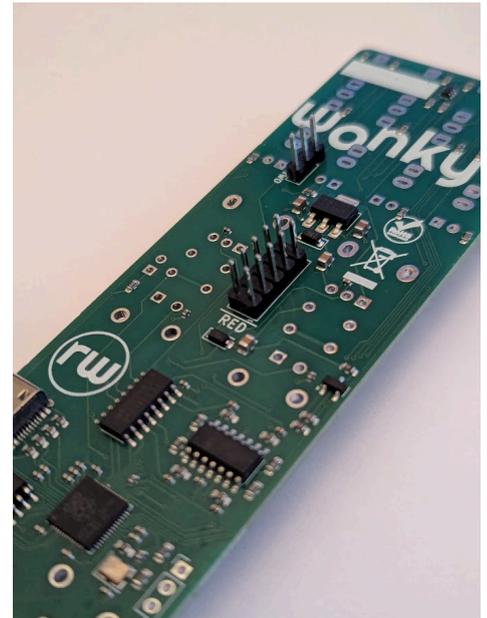
Wonky is a straightforward build requiring only through-hole parts to be added. Take your time and be careful to avoid the pre-populated surface mount components when soldering.

You will need a soldering iron and solder, pliers, wire cutters and a small philips head screwdriver. You will also need a USB cable and computer to program the firmware.

As a general approach to soldering the module, solder a single pin of a component first and check you are happy with the positioning. You can then reflow the solder and adjust the position of the component easily whereas it is much harder after you have soldered several pins.

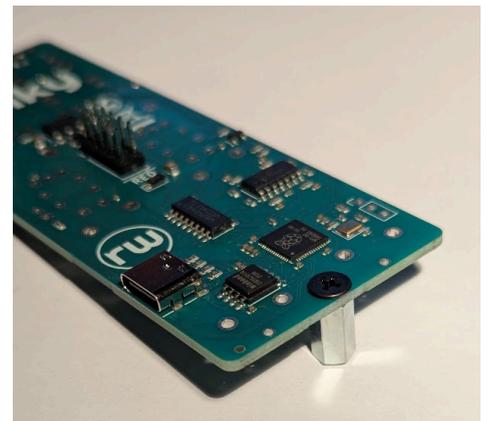


1. First place the 10 pin power header and 3 pin expansion header on the back of the PCB with the pre-populated components (the expansion header goes next to the text ONE GND TWO). Then solder them from the other side of the PCB.
2. Place the two slide potentiometers on the front of the PCB and solder a single pin of each, reflowing if necessary to ensure they sit flat against the PCB.
3. Put one of the black screws through the back of the PCB and screw on the metal standoff on the front of the PCB.
4. Place the jack sockets, potentiometers and switches on the front of the PCB so they sit flat against it. You may need to straighten the two larger legs of the rotary potentiometers with your pliers.



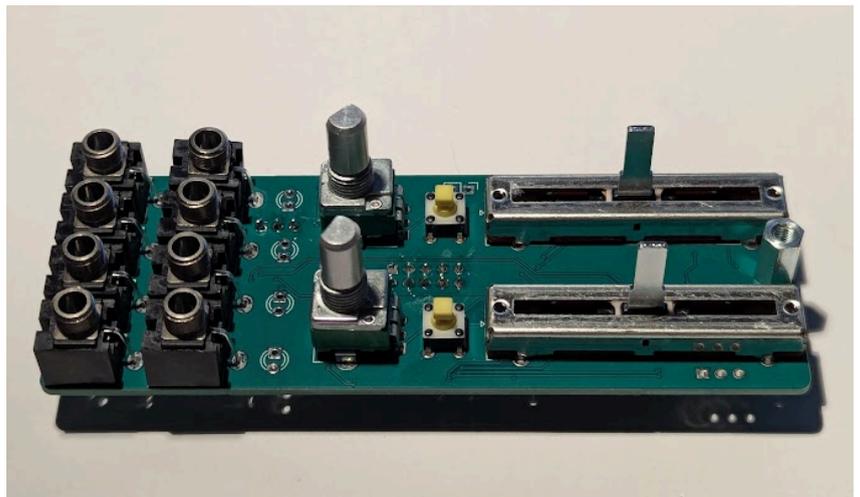
Place the front panel on and solder a leg of each component. Check you're happy with the positioning and then solder the remaining legs of all parts you have placed so far.

5. Remove the panel and place the 4 LEDs on the front of the board with the shorter cathode leg going into the hole with the square pad.



Put the panel back on and check the position of the LEDs. You can place some tape on the panel across the LED holes and push the LEDs up into the tape to get them to sit flush with the panel.

Solder a single leg of each LED, check the positioning and if you're happy with it, solder the remaining legs and then snip the legs close to the back of the PCB with your wire cutters..



6. Screw on the jack and potentiometer nuts and screw the remaining black screw into the standoff from the front of the module.

Push the white caps onto the switches. This can require a little force, just make sure to push straight down onto the switch. They should end up a couple of millimeters above the panel.

Finally push the knobs onto the potentiometers.

7. Connect the power cable to your eurorack system and your USB cable from the module to your computer.

Power on your eurorack system and the module should appear as a drive called RPI-RP2 containing INDEX.HTM and INFO_UF2.TXT files.

Download the firmware .UF2 file from the [website](#) and copy it onto this drive. Once the file has been copied, the module will restart and the drive will disappear. You can now disconnect the USB cable.



Your module is now ready to use!

If you have any questions or suggestions for improving this documentation, please get in touch at hello@random-works.co.uk.