

Case for Arduino Mega and 433 MHz transmitter and receiver



Blizzard

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Summary

Tucks away your Arduino Mega, 433 MHz transmitter, receiver with antennas including cables, and can be used with RFLink.

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Can be used for an RFLink setup for example with an Arduino Mega (with micro USB or USB-C connector), a 433 MHz superheterodyne transmitter, and a receiver with copper antennas. The case is a somewhat loose friction fit, to make it easy to print and take apart in case you need to do any maintenance. There are slots for the antennas in the top, to get the largest range possible. There is also a cutout in the back of the bottom part, that should fit most micro USB and USB-C cables.

Prints nicely in PLA in the default model orientation without supports at a layer height of 0.20 mm.

If you like what I'm doing, please give it a like consider **joining my club** or buying me a coffee! ☺



Buy me a coffee

Necessary materials

- 2x **Threaded insert M3x3.0mm** (note: **must** be the **short** ones, the regular M3 are too long!)
- 2x M3x6 screw
- 1x Arduino Mega with a Micro USB or USB-C port
- 1x 433 MHz superheterodyne transmitter and receiver with copper antennas
- Dupont wires (amount depends on your transmitter and receiver)

Instructions

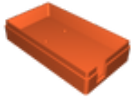
1. Print both the top and the bottom part once each
2. Install the threaded insert in the holes of the bottom part
3. Place the Arduino Mega into the bottom part
4. Screw in the M3 screws into the threaded inserts through the Arduino Mega
5. Connect the transmitter and receiver to the Arduino Mega using the Dupont wires
6. Stick the copper antennas through the openings of the top part and slide them forward, they should hold on to their own
7. Close the case by putting the top part onto the bottom part

Model files



arduino-mega-case-top.stl

☐ STL file for printing the top part on a 3D printer



arduino-mega-case-bottom.stl

📄 STL file for printing the bottom part on a 3D printer

arduino-mega-case.step

📄 STEP file to modify the design in your 3D modeling software

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