MobiFlight GNC255 update instructions
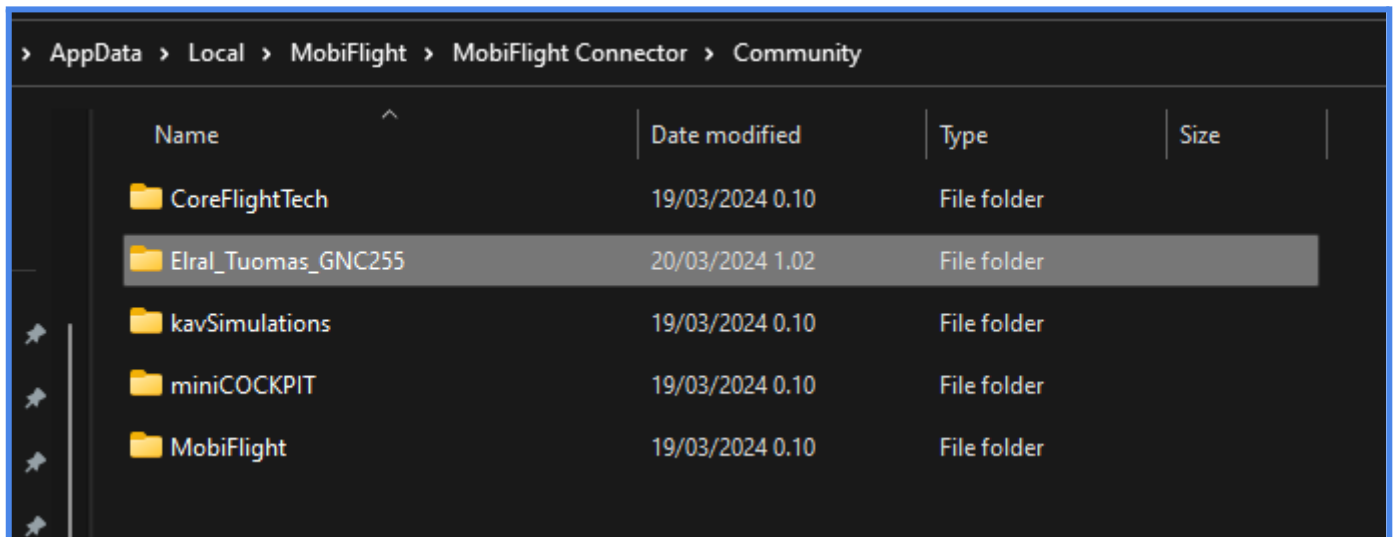
Downloading MobiFlight and installing the Radio Panel files

First download the latest version of MobiFlight from [mobiflight.com download page](#) and install it by double clicking the installer. **Also**, make sure to install the wasm module when prompted.

Next, we are going to add the radio panel firmware and configuration files to the MobiFlight install folder, so at this point, close MobiFlight, and open

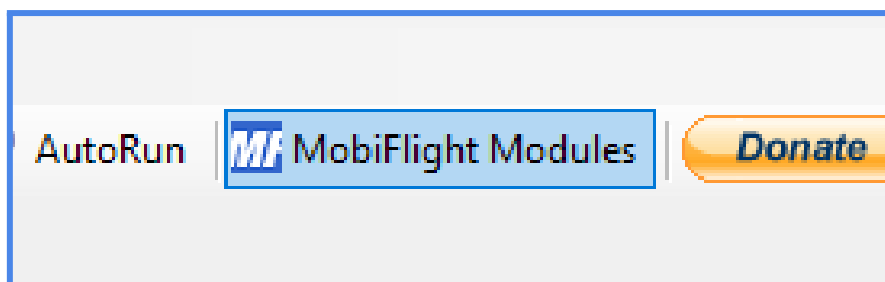`%localappdata%\MobiFlight\MobiFlight Connector\Community`

with the file manager, and copy the "Elral_Tuomas_GNC255" folder inside the ZIP here like this:

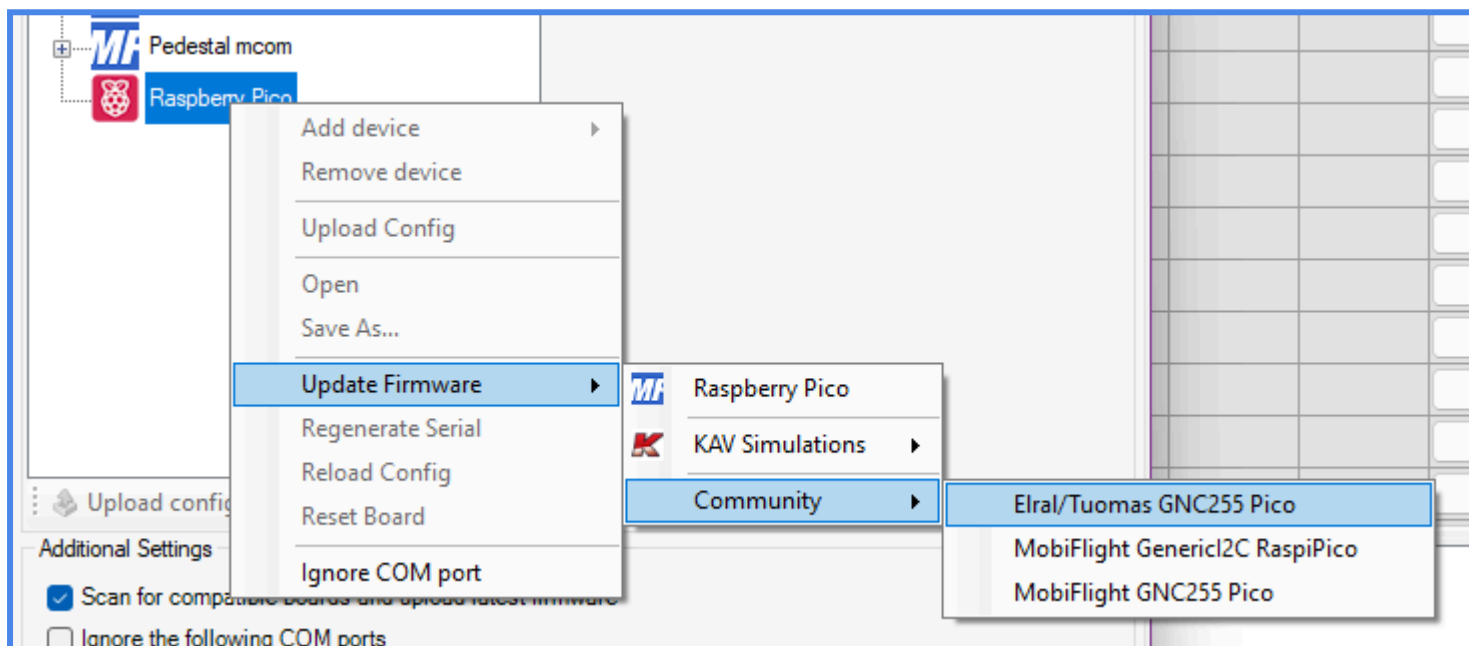**Restart MobiFlight Connector**, so that it can see the newly added files.

Updating the Radio Panel firmware

Plug in the GNC255 radio panel, and open the "MobiFlight Modules" dialog by clicking the button in the toolbar:
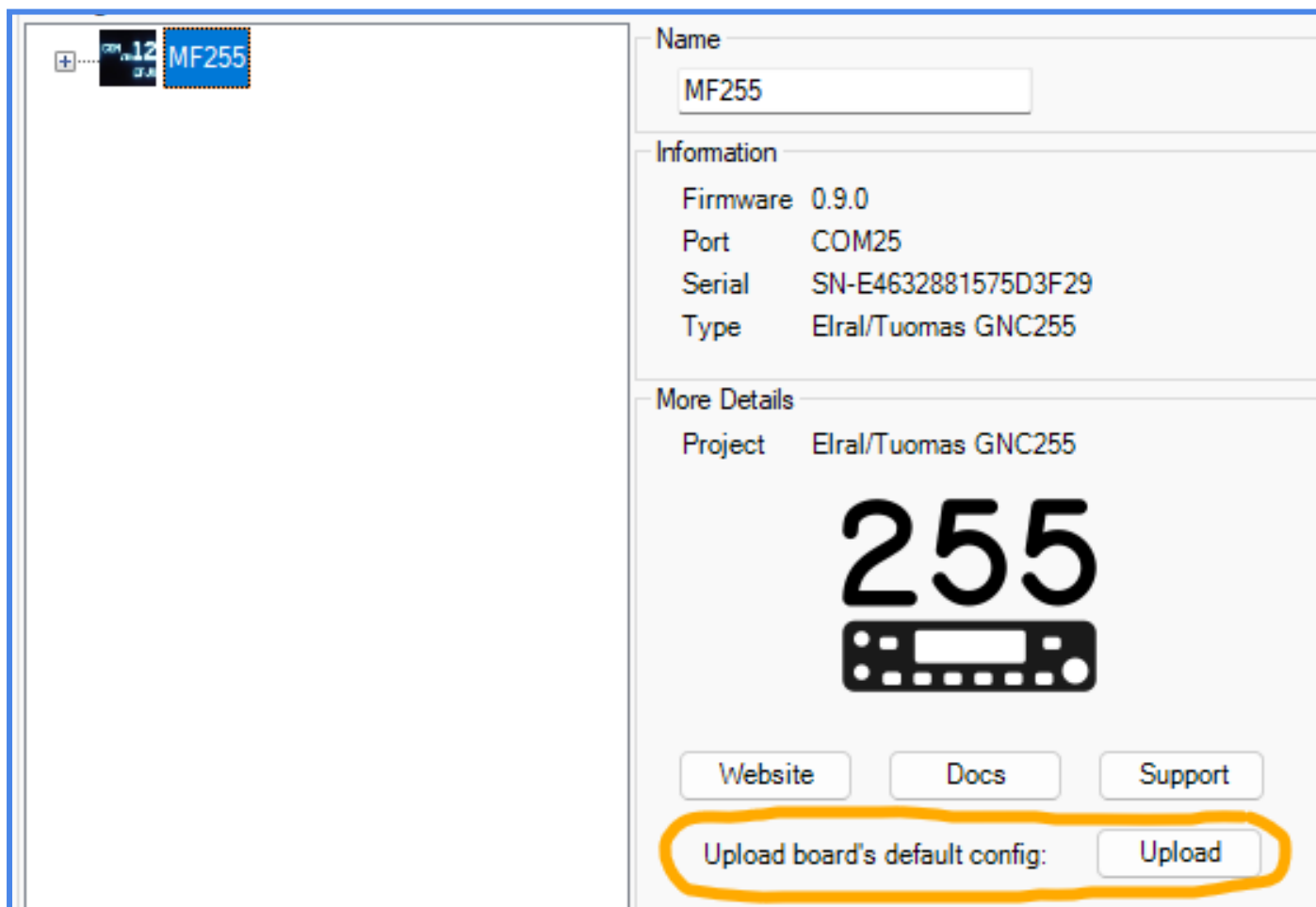

Press down the black reset button on the back of the radio panel, and connect it to the computer.
At this point you should see a red "Raspberry Pico" show up in the "Configured Modules" list. You can release the reset button at this point.

Right click the Pico, and select to update the firmware with *Community > Elral/Tuomas GNC255 Pico.*
You will hear the USB disconnect sound as the module firmware is being updated, and the module should come up again as a "MF255":

Press the "Upload board's default config" button:

After the upload completes successfully, close the dialog and we can move to the next part!

Using the radio in the simulator

The radio comes with a configuration file that should work with most aircraft in Microsoft Flight Simulator 2020. The file is located inside the folder we unzipped earlier. So in MobiFlight Connector, *File > Open* the folder

```
%localappdata%\MobiFlight\MobiFlight Connector\Community
```

..and navigate to:

```
Elral_Tuomas_GNC255\profile\msfs2020\generic\
```

..and select the .mcc file located within.

When Microsoft Flight Simulator is running, press "Run" in MobiFlight and the radio panel should be functional.

Features that work currently

As the GNC255 panel and firmware is a work in progress, and not everything is simulated in MSFS2020, the following things are functional at this point:

- Radio tuning, of course - setting MHz and kHz of the standby frequency on the radio, and using the double arrow swap button to switch between active and standby frequency
- NAV and COM radio modes. By pressing C/N button, the radio switches between COM and NAV radio, and shows the selected frequency.
- Text labels of station ID's. The radio receives the station ID from MSFS2020 as text, and it works for both active and standby frequency of the COM1 radio, and on the active NAV frequency, when the simulated NAV receiver has a valid station in range. This often requires that you are in the air, unless there is a VOR at the same airport you are located, if you are on the ground.
- Adjusting COM and NAV volume via the volume knobs
- Adjusting the backlight brightness to current ambient light levels, using the included photoresistor

What does not yet work

All the buttons are functional on the radio, so it is possible to use them to do things via MobiFlight. Some features in the real radio do not work due to the limitations of the simulator software, but some things are just simply not yet done, or are just planned but would benefit from more functionality in the firmware, so they might be added in the future.

It is also possible to configure the radio to be used with X-Plane or Prepar3D, but this is also not yet done, it is likely that the community will also come up with additional configuration options in the future once we make them more widely available via the community shop.

Since the panel is compatible with MobiFlight, you can also configure additional functionality to any of the remaining buttons if you want. We expect our user community to come up with more ideas once we get some more available in [the MobiFlight community shop](#).

What now?

Congratulations! The radio should now work - happy flying!

Discord

You are most welcome to the [MobiFlight community Discord server](#). Join over 6500 others in a friendly and excited community - find ideas and projects others have created in the community showcase channel, or ask questions you might have about configuration - or just enjoy the hangar talk in the "Pilot's Lounge".

YouTube

Please watch the ▶ Getting Started 2023 - MobiFlight Tutorial to learn more, and subscribe to our YouTube channel to stay up to date with MobiFlight!