

How to use SDR++ with HydraSDR RFOne on Windows

v1.1 - 10 Aug 2025

System Requirements

First, check your Windows version:

- **Windows 10 or 11 (64-bit) required** - older Windows 8.1 is no longer supported by Microsoft and probably won't work properly.
- Both Windows 10/11 Home and Pro versions are supported.

Download the Correct SDR++ Version

You **must** use the HydraSDR fork of SDR++, not the standard version (which does not support HydraSDR RFOne so far).

Download from: <https://github.com/hydrasdr/SDRPlusPlus/releases>

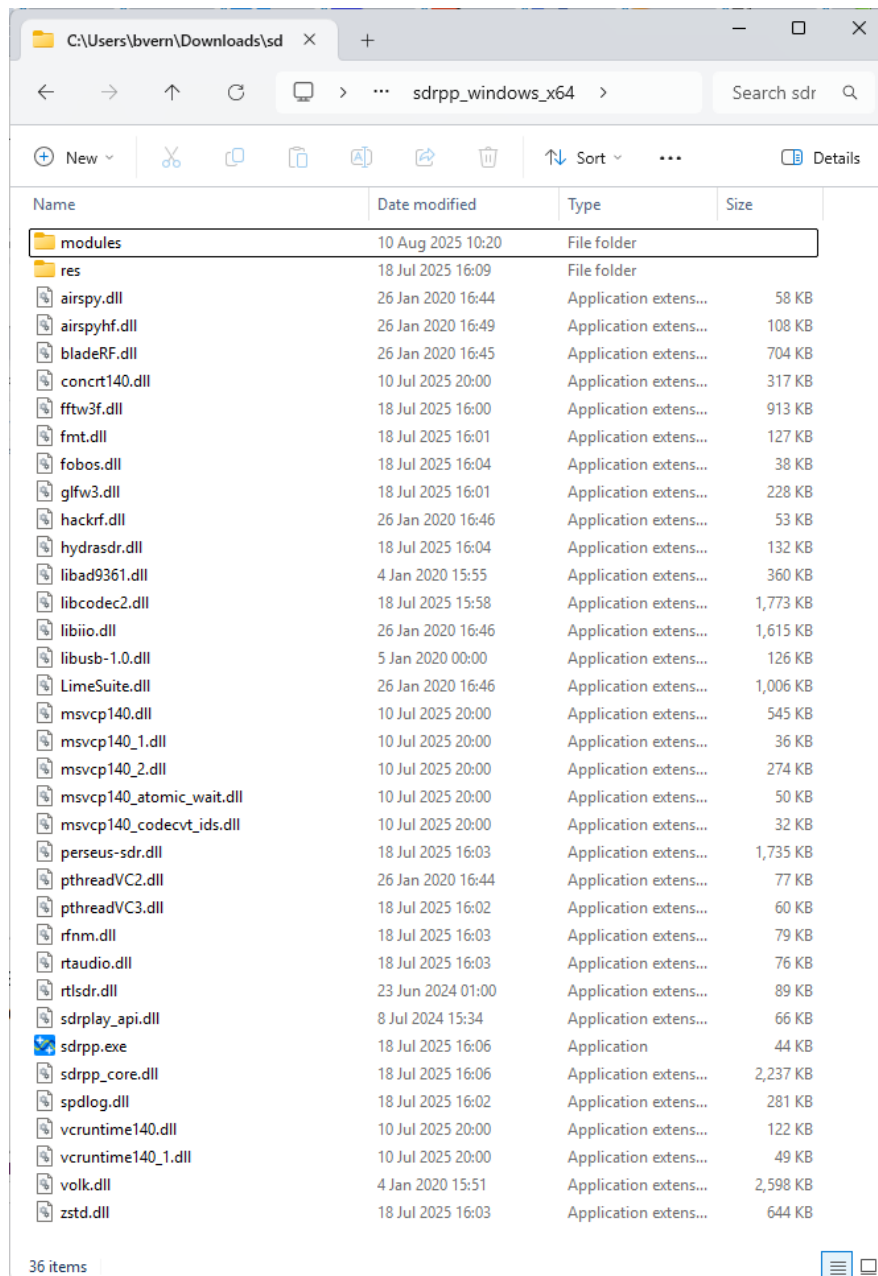
Choose either:

- **Nightly build** (recommended):
https://github.com/hydrasdr/SDRPlusPlus/releases/download/nightly/sdrpp_windows_x64.zip
- **Stable v1.2.1dev**:
https://github.com/hydrasdr/SDRPlusPlus/releases/download/v1.2.1dev/sdrpp_windows_x64.zip

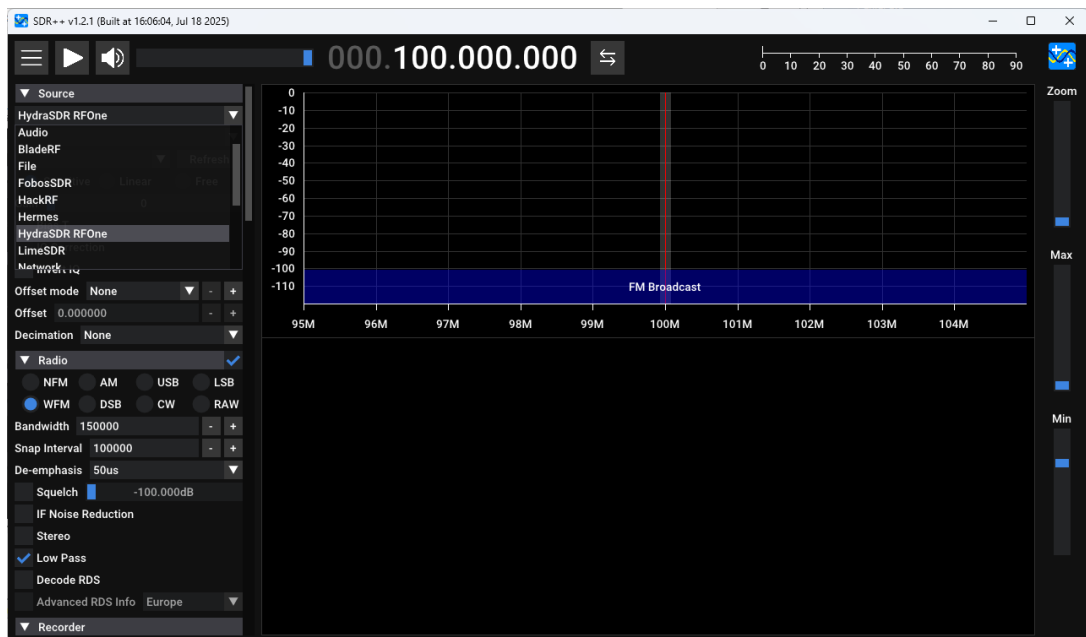
Both have been tested and work identically on Windows 10 x64 and Windows 11 x64.

Installation and Setup

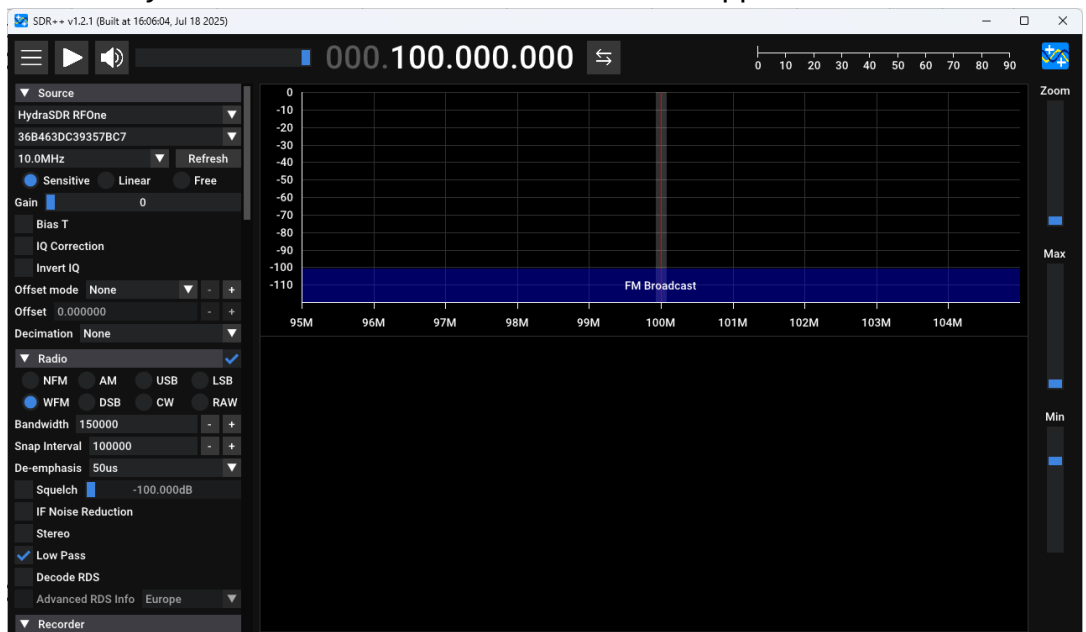
1. **Extract SDR++** to a directory of your choice
 - Extract to a location with a short path (e.g., C:\Users\[YourUsername]\Downloads\)
 - Avoid paths longer than 260 characters to prevent Windows issues
 - You should see the following files after extraction
of https://github.com/hydrasdr/SDRPlusPlus/releases/download/v1.2.1dev/sdrpp_windows_x64.zip



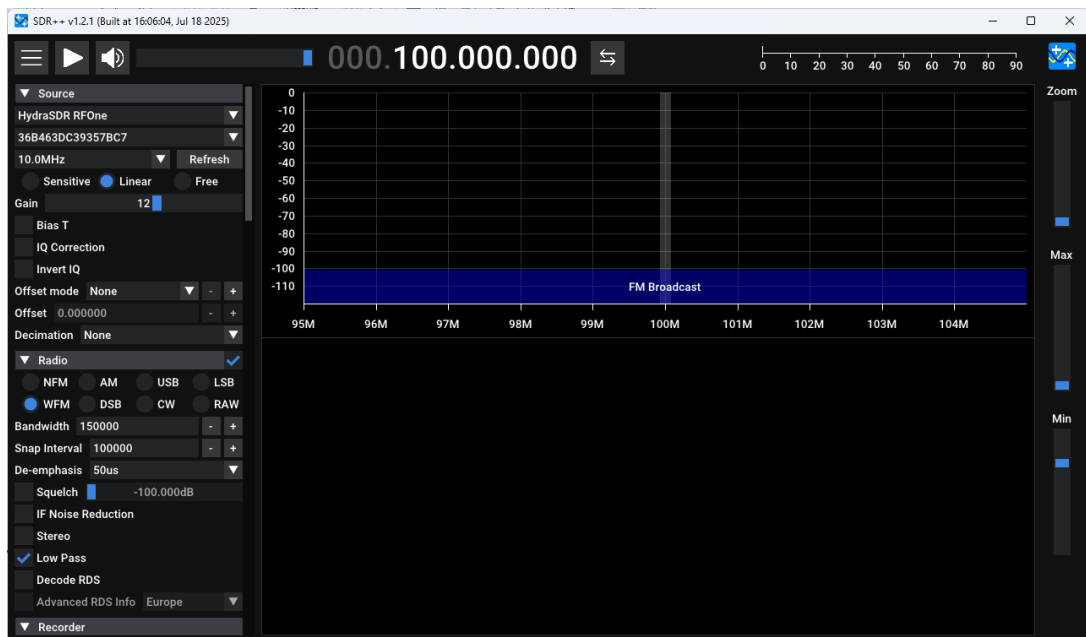
2. **Start SDR++** (before connecting the device)
3. **Check Source Menu:** Go to **Source** and you should see "**HydraSDR RFOne**" in the list
 - **Important:** This option should appear even when the device is NOT connected to your PC
 - If you don't see "HydraSDR RFOne" in the source list, you're using the wrong SDR++ version



4. **Select HydraSDR RFOne** as your source
5. **Connect the device:** Plug your HydraSDR RFOne into your computer using the USB-C to USB-A cable.
Use a USB 3.0 port if available for optimal performance.
The device should be recognized automatically without requiring driver installation on Windows 10/11.
6. **Click Refresh** - you should now see the Serial Number appear



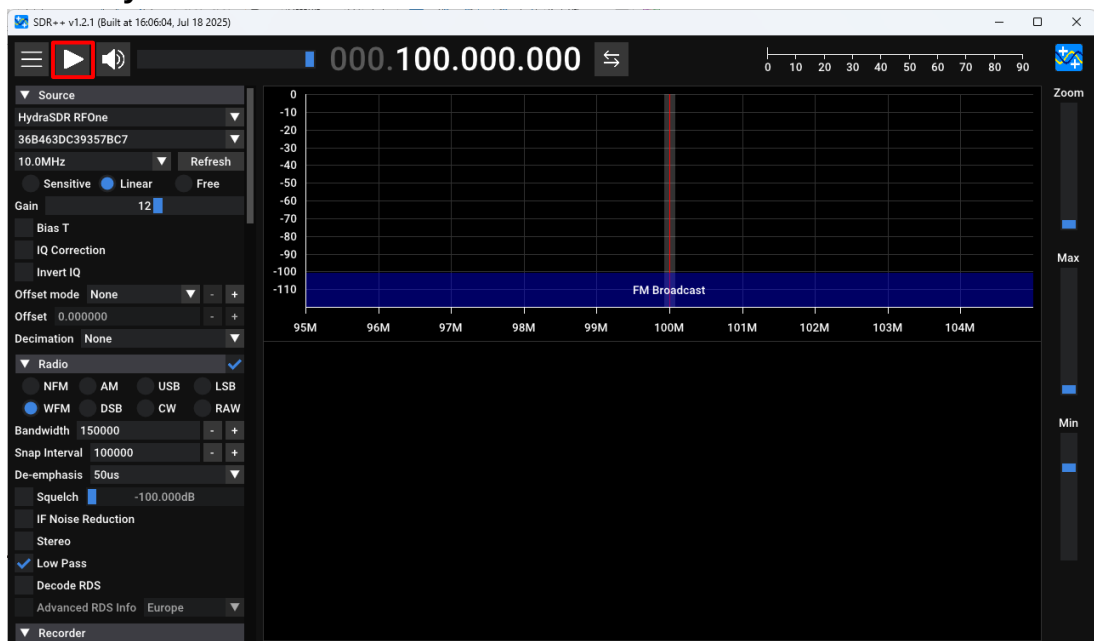
7. **Configure settings:**
 - Bandwidth: 10MHz (default)
 - **Set Gain to Linear 12** (recommended starting point)



8. **Connect your antenna** to the **ANT** port.

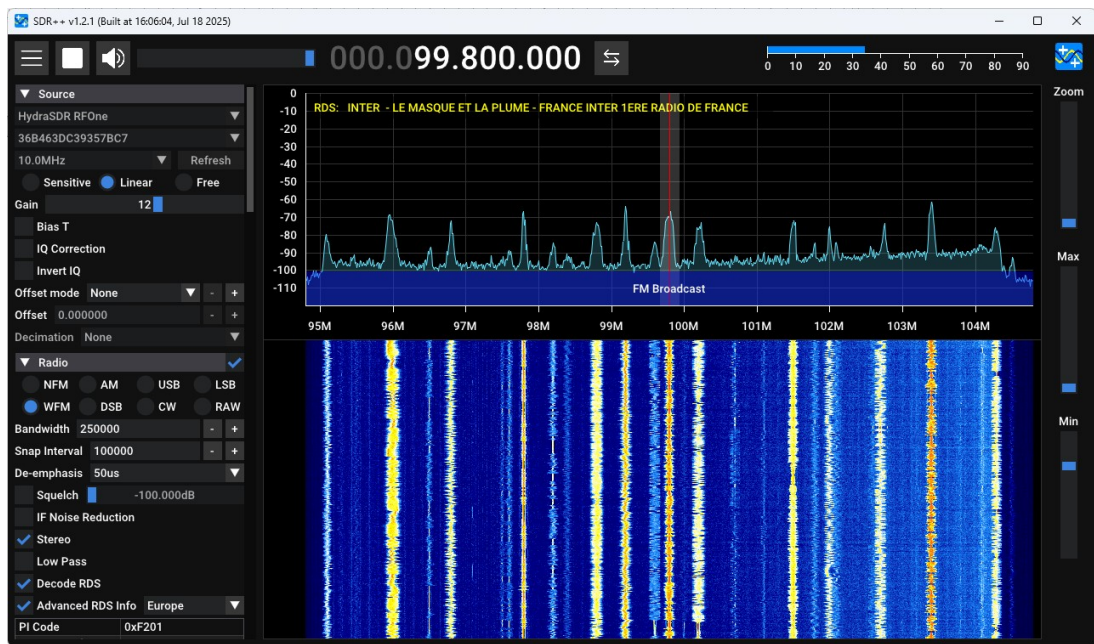
The antenna must have an SMA male connector to mate with the device's SMA female port.

9. **Press the Play button**



10. **Example: FM Radio Reception**

- **Configure for FM:** Set WFM mode, Bandwidth to 250000, enable Stereo and RDS decoding
- **Find a station:** Tune to any FM frequency between 88.1 to 107.9 MHz



- You should now hear the FM audio

Troubleshooting

If HydraSDR RFOne Doesn't Appear in Source List, this indicates you're using the standard SDR++ instead of the HydraSDR fork.

The HydraSDR RFOne source module is only available in the special HydraSDR version, make sure you downloaded from the correct GitHub repository.

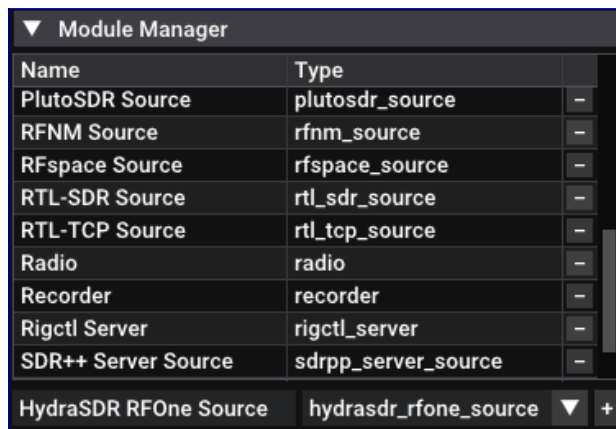
The device should work immediately without any driver installation on modern Windows systems.

If "HydraSDR RFOne" does not appear in the source list:

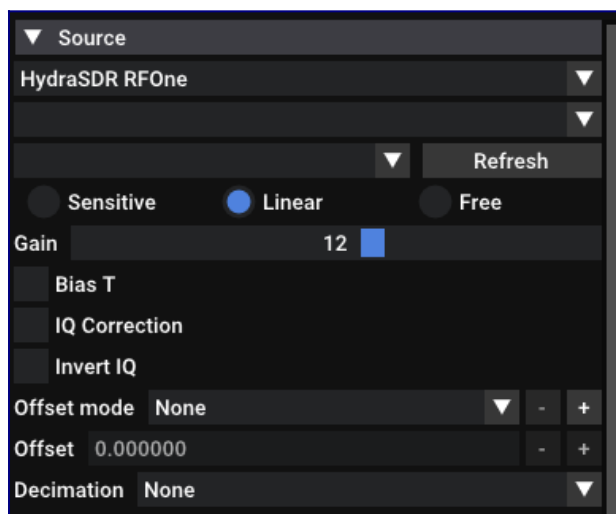
Note: This issue only affects **existing SDR++ users** upgrading from older versions.

New users installing for the first time will not encounter this problem.

1. Open the **SDR++ Module Manager**.
2. Locate **hydrasdr_rfone_source** in the list.
3. Add it with the name **HydraSDR RFOne Source**, then click **+** to confirm.



4. You should now be able to select **HydraSDR RFOne** from the source list.



You can also check your HydraSDR RFOne work fine on your PC following this: https://github.com/hydrasdr/rfone_host/blob/main/hydrasdr-tools/hydrasdr_troubleshooting.md#windows