

# Step-by-Step installation guide for SDR# (SDRSharp) with RTL-SDR dongle, including the correct .NET version clarification:

## ✅ SDRSharp (SDR#) + RTL-SDR Dongle — Full Installation Guide (2025)

### Prerequisites

1. **Windows 10 or later (64-bit recommended)**
2. **.NET 8 Runtime** (or .NET 9 if using the latest SDRSharp releases)
3. **Admin rights to install drivers**

### Step-by-Step Setup

#### 1. Download SDRSharp (SDR#)

- Visit: <https://airspy.com/download/>
- Download: `sdrsharp-x86.zip` (*latest version*)

#### 2. Extract the ZIP

- Extract to: `c:\SDRSharp` (or your preferred folder)

#### 3. Install RTL-SDR USB Driver via Zadig

- Run `zadig.exe` from the SDRSharp folder (or download from <https://zadig.akeo.ie/>)
- Choose:
  - Device: Bulk-In, Interface 0 (*NOT 1 or 2*)
  - Driver: Replace with **WinUSB**
- Click **Install Driver**

✅ After success, Device Manager should list:

Bulk-In, Interface 0 – WinUSB (working)

## Runtime Check: .NET

- **SDRSharp.exe** requires: .NET Framework 4.8
- **SDRSharp.dotnet8.exe** requires: **.NET 8 Runtime**

 You successfully used:

 **SDRSharp.dotnet8.exe**

which works on modern systems and should be your default going forward.

## Verify RTL-SDR is Working

Run:

```
rtl_test.exe
```

Expected output:

```
Found 1 device(s):
  0: Realtek, RTL2838UHIDIR, SN: 00000001
Using device 0: Generic RTL2832U OEM
Found Rafael Micro R820T tuner
...
```

## Launch SDRSharp

Run:

```
SDRSharp.dotnet8.exe
```

 Now select:

- **Source:** RTL-SDR (USB)
- Start the receiver and tune!

## Optional: Save Setup for Posterity

You may copy this **clean working folder** to your GitHub repo (private or public) as a known good baseline. Do not include `.exe` binaries publicly if license-sensitive.