

Installing the SDRplay RSP API on an M1 Mac

1. Locate and download the API (SDRplay_RSP_API-MacOS-3.07.a4.run) from sdrplay.com/downloads

2. Open Terminal and locate the file, usually:

```
steve@Steves-M1 ~ % cd Downloads
steve@Steves-M1 Downloads % ls
$RECYCLE.BIN
2021-05-07-raspbios-buster-armhf.img
SDRplay_RSP_API-MacOS-3.07.a4.run
```

3. Make the file executable:

```
steve@Steves-M1 Downloads % chmod 755 SDRplay_RSP_API-MacOS-3.07.a4.run
```

4. Install the API:

```
steve@Steves-M1 Downloads % ./SDRplay_RSP_API-MacOS-3.07.a4.run
```

Accept the agreement and input your password. You will then see the following:

Service has been installed and started. This device should be rebooted before the service is used. After the installation script finishes, reboot this device.

To start and stop the API service, use the following commands...

```
launchctl load /Library/LaunchDaemons/com.sdrplay.sdrplay_service.plist
launchctl unload /Library/LaunchDaemons/com.sdrplay.sdrplay_service.plist
```

```
Installing API files into /usr/local/sdrplay...Done.
SDRplay API 3.07 Installation Finished
```

5. Reboot your Mac

6. Verify the installation:

```
steve@Steves-M1 Downloads % SoapySDRutil --info
```

You will see something like this:

```
#####  
##      Soapy SDR -- the SDR abstraction library      ##  
#####
```

```
Lib Version: v0.8.0-g3fa5ef74  
API Version: v0.8.0  
ABI Version: v0.8  
Install root: /usr/local  
Search path:  /usr/local/lib/SoapySDR/modules0.8  
Module found: /usr/local/lib/SoapySDR/modules0.8/libsoapyPlaySupport.so (0.3.0-e6fdb71)  
Available factories... sdrplay  
Available converters...  
- CF32 -> [CF32, CS16, CS8, CU16, CU8]  
- CS16 -> [CF32, CS16, CS8, CU16, CU8]  
- CS32 -> [CS32]  
- CS8 -> [CF32, CS16, CS8, CU16, CU8]  
- CU16 -> [CF32, CS16, CS8]  
- CU8 -> [CF32, CS16, CS8]  
- F32 -> [F32, S16, S8, U16, U8]  
- S16 -> [F32, S16, S8, U16, U8]  
- S32 -> [S32]  
- S8 -> [F32, S16, S8, U16, U8]  
- U16 -> [F32, S16, S8]  
- U8 -> [F32, S16, S8]
```

7. Plugin your RSP and verify it:

```
steve@Steves-M1 Downloads % SoapySDRutil --probe
```

You will see something like this:

```
#####  
##      Soapy SDR -- the SDR abstraction library      ##  
#####
```

```
Probe device  
[INFO] devIdx: 0  
[INFO] hwVer: 1  
[INFO] rspDuoMode: 0  
[INFO] tuner: 1  
[INFO] rspDuoSampleFreq: 0.000000
```

```
-----  
-- Device identification  
-----
```

```
driver=SDRplay
hardware=RSP1
sdrplay_api_version=3.070000
sdrplay_api_hw_version=1
```

-- Peripheral summary

Channels: 1 Rx, 0 Tx

Timestamps: NO

Other Settings:

- * RF Gain Select - RF Gain Select
[key=rfgain_sel, default=1, type=string, options=(0, 1, 2, 3)]
- * IQ Correction - IQ Correction Control
[key=iqcorr_ctrl, default=true, type=bool]
- * AGC Setpoint - AGC Setpoint (dBfs)
[key=agc_setpoint, default=-30, type=int, range=[-60, 0]]

-- RX Channel 0

Full-duplex: NO

Supports AGC: YES

Stream formats: CS16, CF32

Native format: CS16 [full-scale=32767]

Antennas: RX

Corrections: DC removal

Full gain range: [0, 42] dB

IFGR gain range: [20, 59] dB

RFGR gain range: [0, 3] dB

Full freq range: [0.01, 2000] MHz

RF freq range: [0.01, 2000] MHz

CORR freq range: MHz

Sample rates: 0.0625, 0.096, 0.125, 0.192, 0.25, ..., 6, 7, 8, 9, 10 MSps

Filter bandwidths: 0.2, 0.3, 0.6, 1.536, 5, 6, 7, 8 MHz

The API is now installed. You can now open CubicSDR and enjoy your RSP.