

# STM32-SDR



The STM32-SDR is a board with a 3.2" TFT display and some user controls which allow you to use STM32-SDR Open Source software and operate a SDR radio like an Ensemble RXTX without a PC.

It currently supports PSK31, SSB and CW connected to an RXTX6.3 or 6.3NG or an Ensemble RXTX or UHFSDR  
It should interface to any SDR with I/Q audio and I2C frequency control.

Open Source Software free future software enhancements!  
See STM32-SDR on Github

Yahoo Group [stm32-sdr](#).

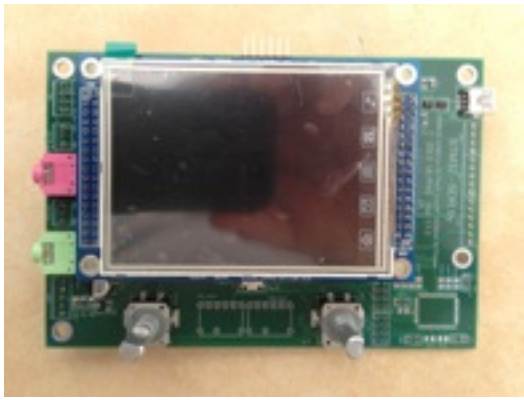
Note: This is experimental hardware for Experienced Amateur Radio Operators.

Use at own risk!

Note: This project requires a SDR Radio to Receive or Transmit Signals!!!

You supply the SDR radio. :-)

**Note: This is a kit which requires other components for a working system**



Front View of completed board



Rear view of completed board

### Features

- STM32F407VGT6 processor and TLV320AIC3204 CODEC
- 3.2" Colour TFT display with Touchscreen
- 3.5mm Stereo Jack for Mic and Speaker
- I/Q Audio in and Out (0.100" 3 pin headers)
- Connection to Si570 ( 5V or 3.3V, Gnd, SDA, SCK)
- Keying (PTT, CW Key, Gnd )
- USBOTG (Supports Keyboard for PSK currently)
- BPF control (3 bits)
- SPI ( CS,CLK, MOSI,MISO, Gnd)
- Serial (TTL Levels)
- BT Footprint for LMX9838
- 2 rotary encoders.
- Power consumption 218 mA at 5V with display, no Si570 and running PSK RX code.



Kit-001



Kit-002

#### Kit -001

PCB with Surface Mount parts installed and software programmed  
You must provide the LCD and through hole parts (Cost for these about \$40.00)  
Price: \$149.00 USD  
Order Now. [stm32-sdr.com](http://stm32-sdr.com)

#### Kit-002

Through hole parts and LCD to complete Kit-002  
Price: 60.00 USD  
Order Now [stm32-sdr.com](http://stm32-sdr.com)