**SwapTX Hosting Setup**

**Flash SwapTX Transceiver and Web Host ESP32 boards**

Find and download latest version of SwapTX hosting firmware from Jay’s google drive or beg borrow and steal what you can. You will need two firmwares. Transceiver and Webserver.

Connect ESP32 board to USB port of computer

Use Flash Download Tool to flash firmware onto the ESP32 boards.

<https://drive.google.com/drive/folders/1c_s49zCS_VfKMCXWg0BbKJzR9ilGXpEG?fbclid=IwAR2u-JLnZT98gLx8kCbJQ2hmDE-hCLWIWKT3lCbJwrlZxifumx5pgfl1zb8>

Download Tool Mode:

-chipType ESP32

-workMode Develop

-Leave the rest alone

ESP32 Download Tool:

-Select hosting Firmware to be uploaded to ESP32 board @0x0000

-80MHz

-QIO

-Check “DoNotChgBin”

-COM check device manager for what COM # is being used by ESP32 board

-BAUD 921600

-“START”

-Let it run. Unplug when finished

**Flash Webhost ESP32 board**

Same as above with Webserver firmware

**Flash Transceiver ESP32 board**

Same as above with Transceiver firmware

**Setup Webserver and Transceiver ESP32 boards**

-These two boards need to be connected together.

-One board is to communicate with the taggers and the other is to host the webpage used to configure the games

-Make a wired connection between 5v pins on one board and 5v on the other board

-Make a wired connection between the GRD pins

-Connect a USB cable to one of the ESP32 boards. Both should power up with the power connections you have made.

-Make a connection between the 22 pin and 23 pin on the two boards. 22 goes to 22 on the other board and 23 goes to 23 on the other board.

-Connect Wi-Fi antennas to both boards

-Build a totally cool box to keep them in and show it off to the group.

**Running a Game**

When the boards are powered up:

-This will create a Wi-Fi hotspot that you connect to via your phone called

“SwapTXScoreboard”. Join this Wi-Fi network.

-This may require a password (123456789)

-Then in a web browser, navigate to 192.168.4.1 to open theSwapTX hosting screen

-Power up the headsets first and then the taggers you plan to play with.

-If it all works properly the taggers should all say “Online”

-Adjust settings in the SwapTX hosting software to your liking and start a game.

-Certain settings will preclude other settings or will build on others. You will need to test how they interact with one another.

-Have fun!

-Let us know how it worked out for you.

Shopping List

Antennas

<https://www.mouser.com/ProductDetail/Molex/146153-0050?qs=ks%252B8n8ZrNgvaFTz%2FejlU9w%3D%3D&countrycode=US&currencycode=USD&mibextid=Zxz2cZ&fbclid=IwAR2bxJZjjv-1tUiAXaBoVK7O6HJKQxcLb4zBsi5JyNsm5mIsGuFWHVOK5BY>

ESP32 Boards

<https://www.amazon.com/dp/B09Y8JS77V?ref_=cm_sw_r_apin_dp_DFTMSX1TYRJG7DY9P5EB&fbclid=IwAR3eQJX2sXULdtOoHJzIuiPfErMMJLk_lihG0s1P7uL28L040Ingw2EiN5E>

Cables to make wired connections

<https://www.amazon.com/gp/product/B01EV70C78/ref=ppx_yo_dt_b_search_asin_title?ie=UTF8&th=1>

USB Power cable

<https://www.amazon.com/gp/product/B0711PVX6Z/ref=ppx_yo_dt_b_search_asin_title?ie=UTF8&th=1>