

StratuX

DIY ADS-B

EAA, Chapter 538

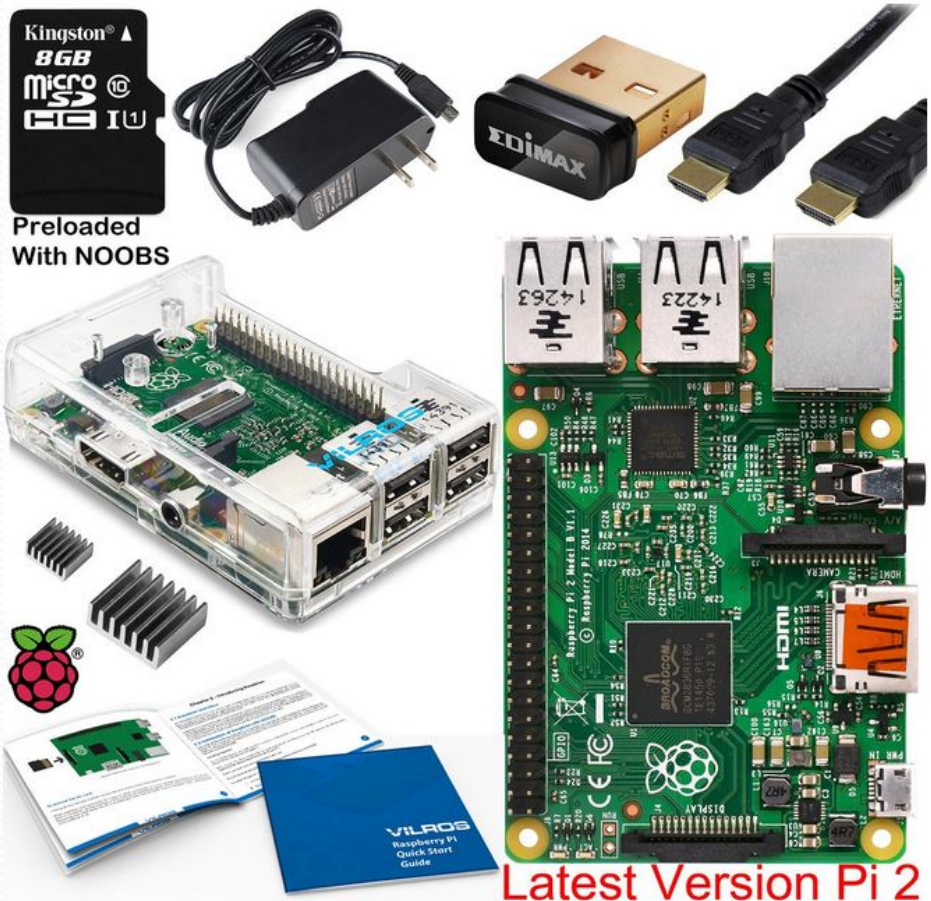
November 2015

By Roger Whittier and Robert Latham

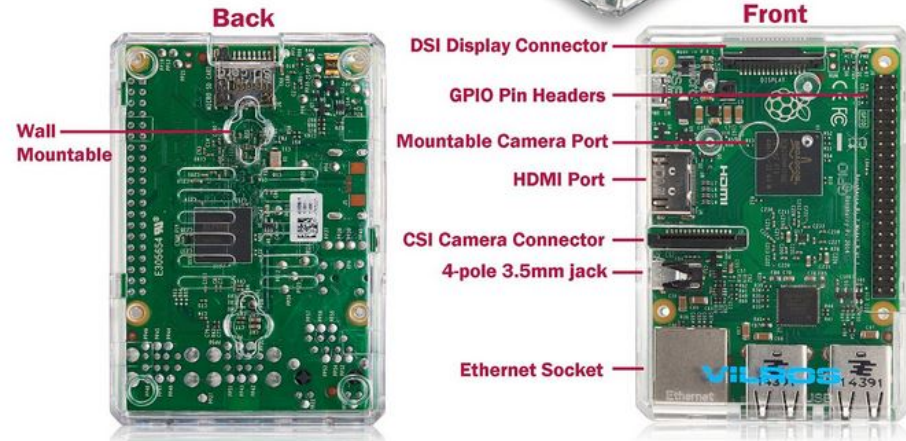
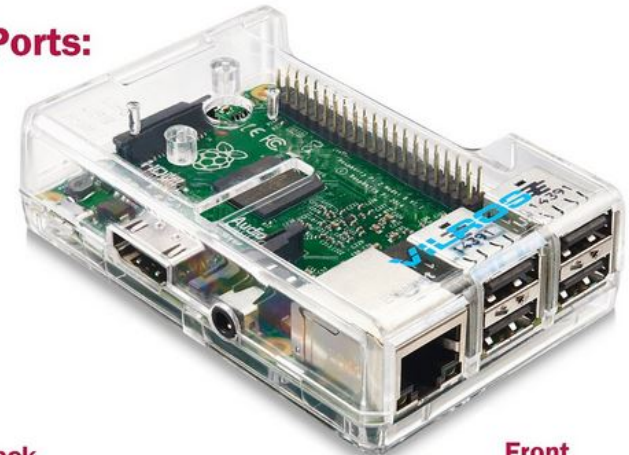
Bill Of Materials

- The full kit is here: http://www.amazon.com/dp/B00MV6TAJI/ref=cm_sw_su_dp
- Right now on sale for \$69.99
- Whole "BOM" from Amazon for ~\$113.90

That buys this kit



Access to Ports:



- The SDR with Antenna is here: http://www.amazon.com/dp/B00P2UOU72/ref=cm_sw_s11_dp



And you need a Battery

- One is here, although there are many (and better too):
http://www.amazon.com/dp/B00JM59JPG/ref=cm_sw_su_dp



Connect to the unit

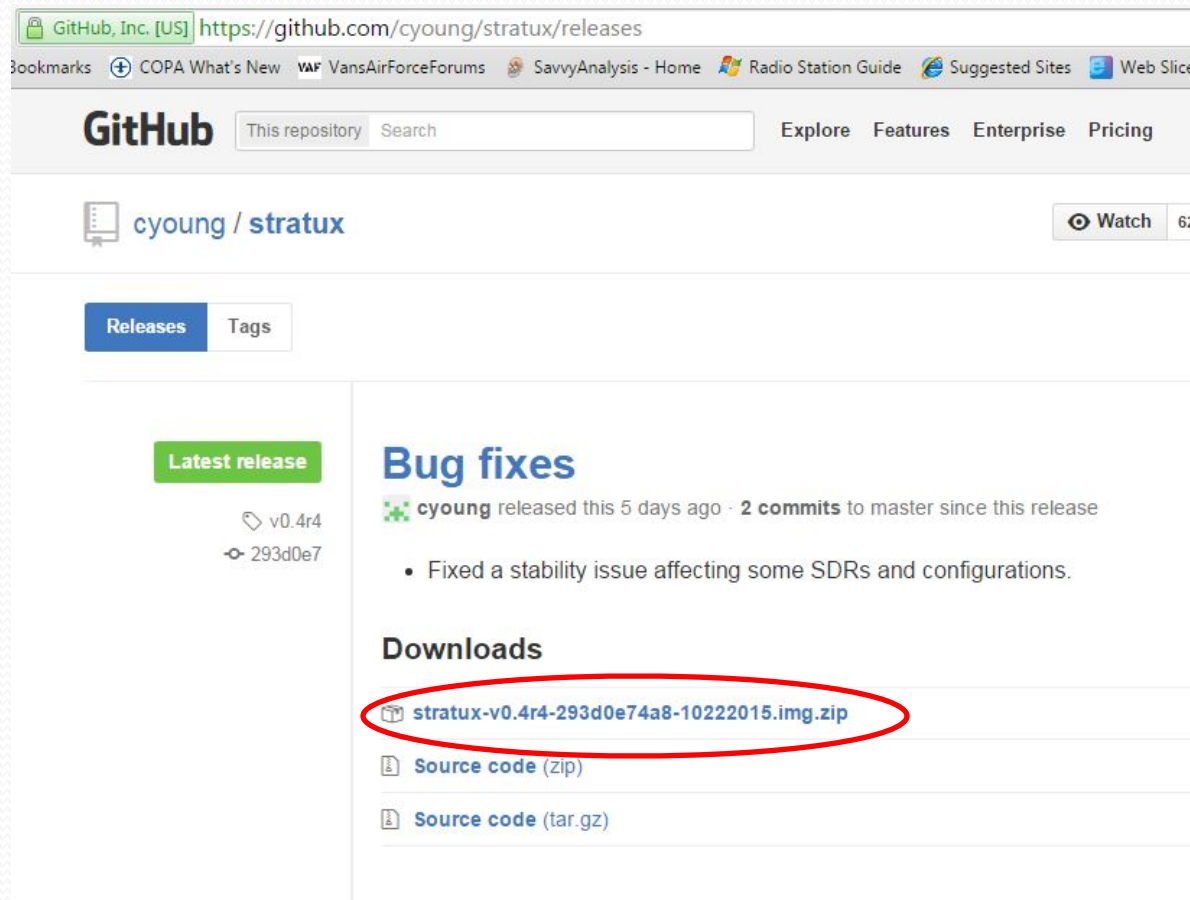
- Various APPS work
 - Foreflight
 - Wing X
 - FlyQ
 - Others
- You can connect and manage through your iPad
 - Type in URL 192.168.10.1 WHILE connected to Stratux
 - Save to the home screen

Some Assembly required

- It is EASY!
 - All plug and play
 - USB snap together stuff

Software is FREE.99

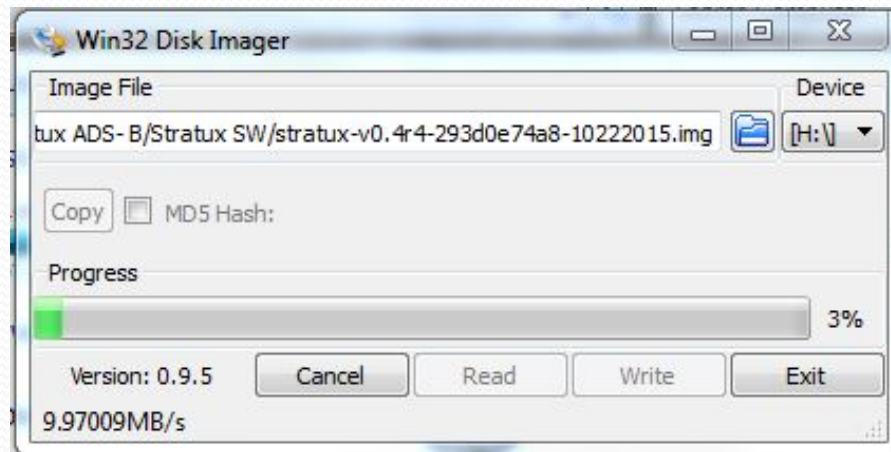
- Free and downloadable here: <https://github.com/cyoung/stratux/releases>



The screenshot shows the GitHub repository page for `cyoung/stratux`. The page is viewed on a desktop browser. The URL in the address bar is `https://github.com/cyoung/stratux/releases`. The repository name is `cyoung / stratux`. The page is currently displaying the `Releases` tab. The latest release is `v0.4r4` with commit hash `293d0e7`. A green badge indicates it is the "Latest release". The release notes are titled "Bug fixes" and state that `cyoung` released this 5 days ago with 2 commits to master since this release. A bullet point indicates that a stability issue affecting some SDRs and configurations has been fixed. Under the "Downloads" section, there are three download options: `stratux-v0.4r4-293d0e74a8-10222015.img.zip` (circled in red), `Source code (zip)`, and `Source code (tar.gz)`.

You will need:

- You need an Image installation tool: <https://www.raspberrypi.org/documentation/installation/installing-images/windows.md>
- Steps are easy...
- Download the image (site listed in resources)
- Put the SD card in the PC (you might need an adapter)
- Using Win32DiskImager to burn it to the SD card



- Put the SC card in the Pi – your done!

On line resources -

reddit.com is the happening place

- Beginners Guide <https://github.com/ssokol/stratux/wiki/Stratux-Beginner's-Guide>
- General information <https://www.reddit.com/r/stratux/>
- Releases <https://github.com/cyoung/stratux/releases>

Let's take a test drive

- And hope for some 1090ES traffic
- We are too low for ADS-B 978 reception
- Here at DVT I generally Rx 978 by 2-300 feet AGL

Then you get to make it your own

- Enclosures (many shown on Redit)
- MakeXYZ is a 3D printing site
- AHRS / GPS on eBay for \$40.00
- Custom antennas
- Dual SDR's (978 and 1090)
- More...