SDR-BASED APRS TRACKER

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INTRODUCTION

What

APRS application to aid trackers in payload recovery

Primary Features

- Software based (no traditional radios)
- Simultaneous reception of APRS packets on multiple frequencies
- Offline maps
- Landing predictions
- Receive only, nothing is transmitted over the air or uploaded to the Internet
- Light weight user interface leverages a web browser

WHAT'S IN THE KIT



- Kansung Computer
- i5 Dual Core CPU
- 8GB RAM
- 500GB Hard Drive (mechanical)
- AC-to-DC power supply



NooElec SDR (USB stick)



GPS Puck



12v Pigtail Barrel Connector



• 2 x USB Extension Cables (long and short)

WHAT YOU NEED TO PROVIDE

IN THE VEHICLE*



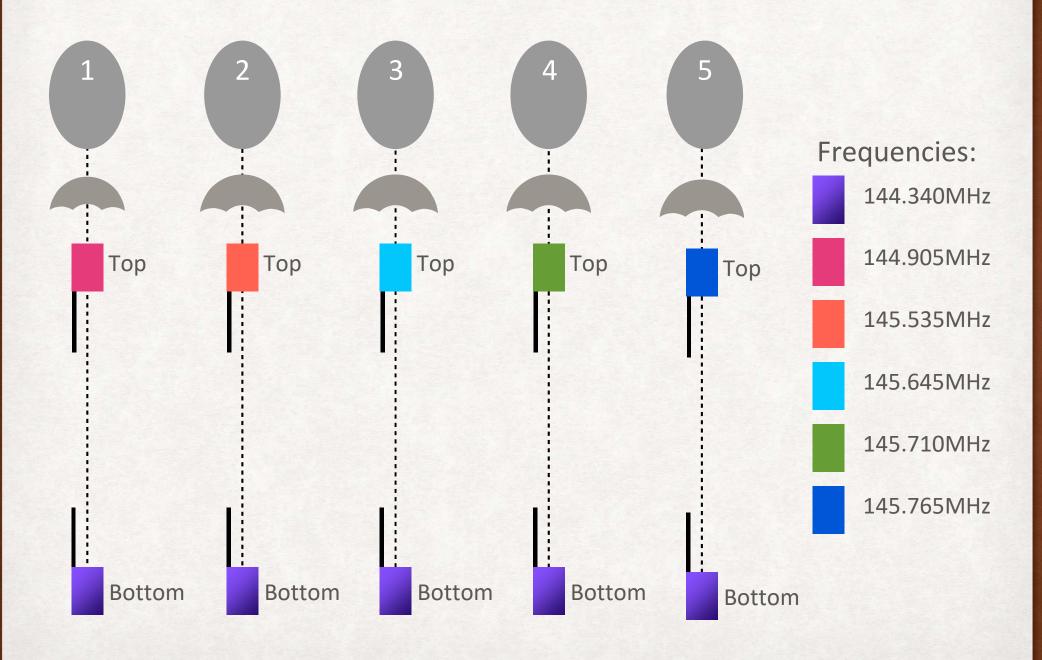
- 2m Antenna
- Coax
- Should terminate with SMA male



- 12v Power
- Power isolator/conditioner [optional]

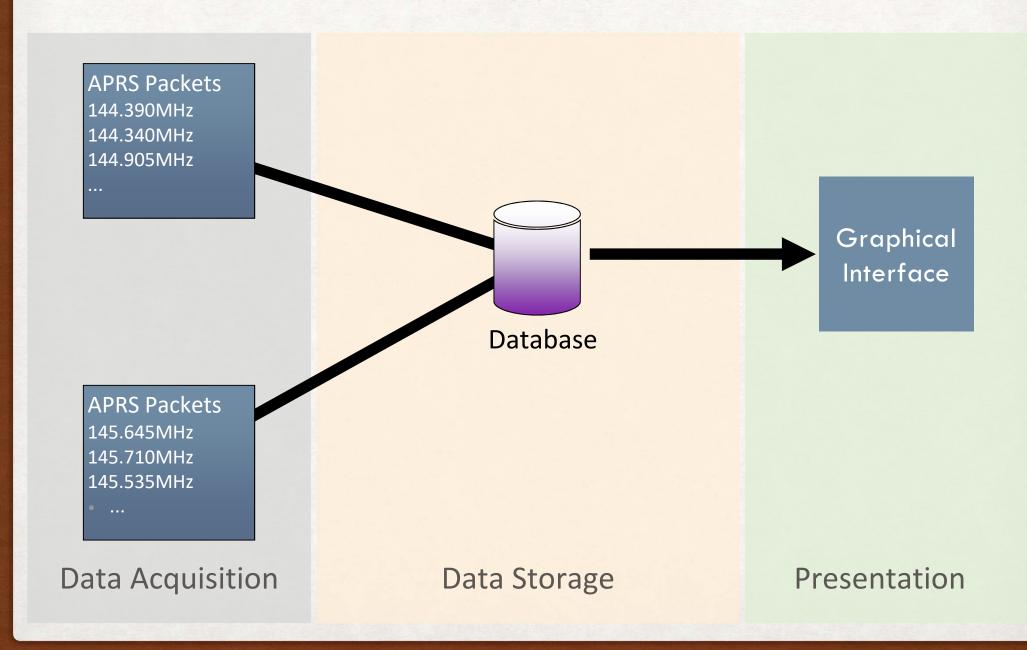
^{*} Note: Use the AC-to-DC power supply when at home.

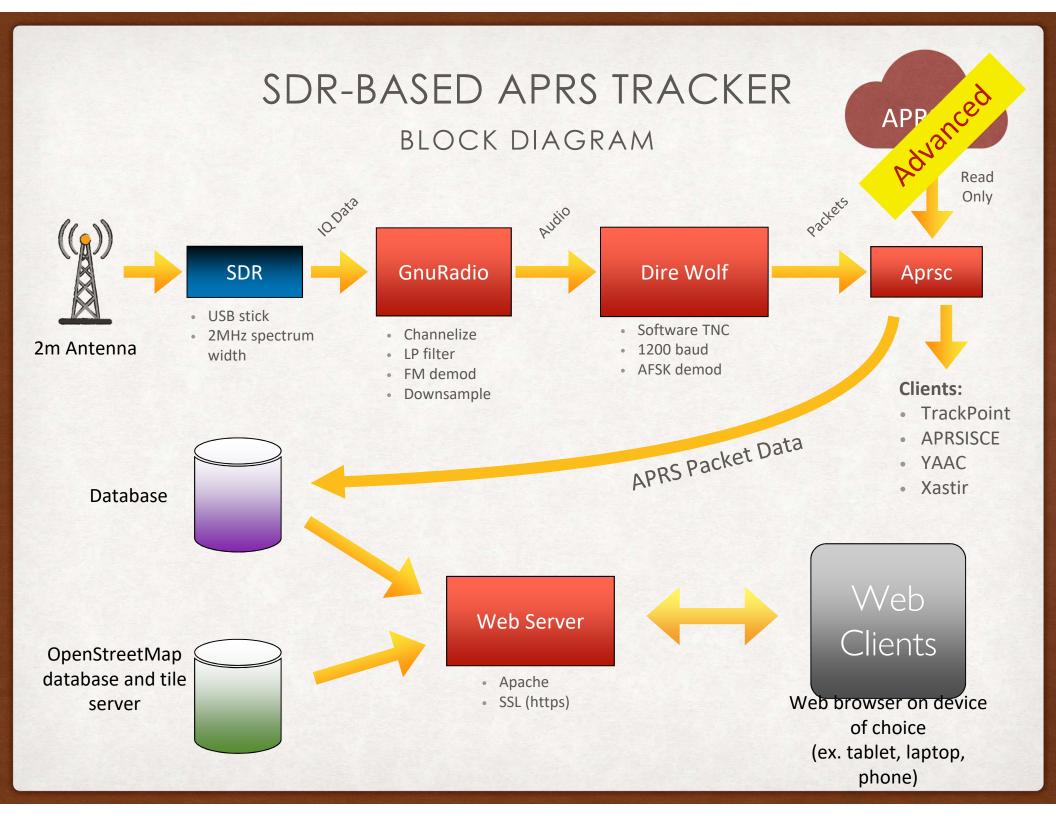
THE SCALE PROBLEM



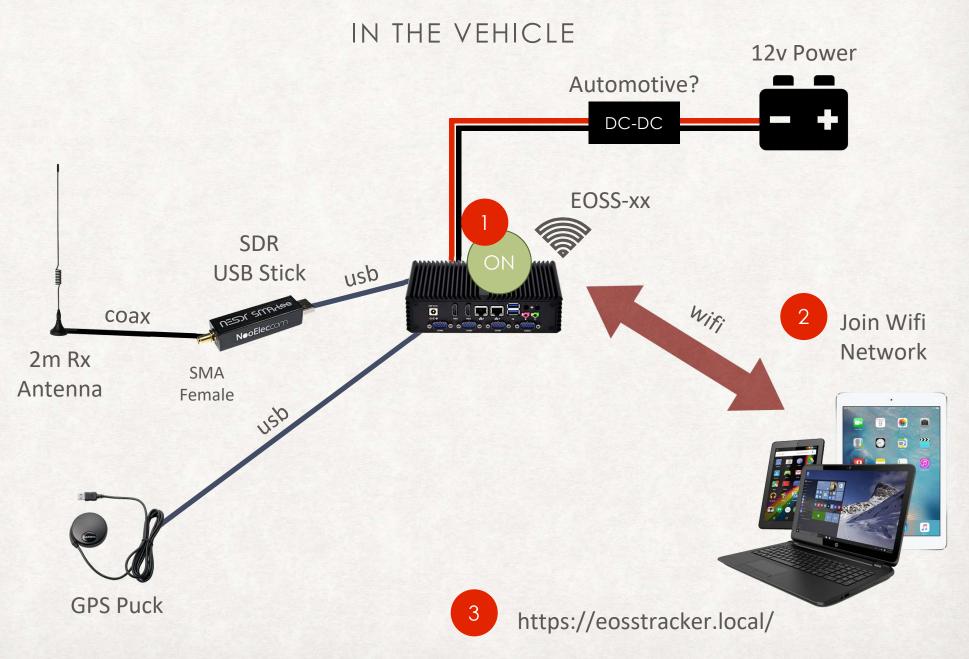
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CORE CONCEPT





HOW TO CONNECT THINGS



DEMO

BACKUP SLIDES

HOW TO CONNECT THINGS

AT HOME - GETTING PREDICT FILES

