**ImagiSat Functionality**

Main Functionality (2022)

* Navigation
  + GPS
    - Long/Lat
    - Alt (GPS and Presure)
    - Accuracy
* Weather
  + SBD based forecasts
    - Based on current or app selected location
    - 24-36 hour forecasts
      * High, Low Temp, wind, POP, CAPE,
      * Nearest precip from radar
  + Local/on-device
    - Temperature
    - Pressure
    - Humidity
    - Lightning alerts
    - Weather Trending and Forecasting
  + Weather Band Radio
    - Radio with volume and frequency control
    - Severe Weather Alerts
    - SAME messages
    - Emergency alerts
* Communication
  + SBD text messaging
* Connectivity
  + USBC (USB 2.0 FS)
  + BLE
  + Iridium SBD

Main Functionality (2007)

* Navigation
  + GPS
    - Long/Lat
    - Alt (GPS and Presure)
    - Accuracy
    - Compas Heading
    - Distance Travelled
    - Waypoints
    - Tactile Nav Based Alerts (distance travelled, way points reached, etc)
  + Maps
    - Sat, Graphical, Hybrid, Terrain, Topographic
* Weather
  + Web Based Reports
    - Based on current or entered location
    - Current conditions and Forecast
    - Radar (NEXRAD, EC, TWDR)
    - Sat (IR, Visible, Water Vapour)
    - Maps (Fronts, Models, Severe Weather)
    - Severe Weather Alerts
  + Location Based
    - Temperature
    - Pressure
    - Humidity
    - Light
    - Weather Trending and Forecasting
    - Tactile Alerts
* Networking
  + Exchange Nav data (routes, position, stats, etc) with other imagiNav users over bluetooth
  + Upload data to online web service (subscription based?)
  + Relay notifications to other users not on 3G. Saves other battery lives.
  + Relay/share weather data from imaginav hardware