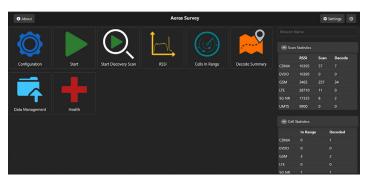


# **FEATURES**

- Software Defined Payload (SDP) fully configured for multiband, multi-format Cellular Network Survey missions
- Supports 2G/3G/4G/5G
- Fully Mod Payload Standard v5.0 compliant
- Ultra small 1U footprint.
- 4-channel wideband super-heterodyne receiver
- · Independent and phase coherent tuning.

# **APPLICATIONS**

- **Cellular Survey**: Multi-band, multi-protocol Cellular Network Survey solution. Simultaneously detects and decodes broadcast channels for: GSM, CDMA, EvDO, UMTS, LTE and 5G FR1
- Optional GSM/CDMA/UMTS Cellular collection



### **KIT CONTENTS**

- Mod Payload Compliant omni-directional Cellular Antennas
- Cable assembly to conduct bench testing
- Mission Laptop

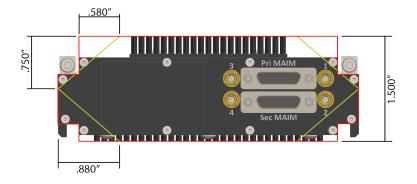
### **DESCRIPTION**

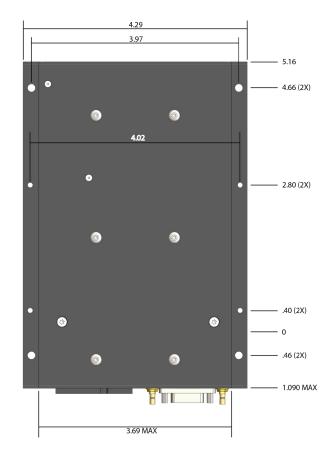
The AERAS Cellular Network Survey SDP is a 2G/3G/4G/5G survey tool that is fully Mod Payload compliant. It can identify new cells quickly with no lengthy synchronization period, decoding overhead parameters while constantly logging signal strength, signal quality parameters and other cell signaling information. AERAS Cellular Network Survey SDP is fast enough to provide the best UAV based network scanning performance. AERAS Cellular Network Survey SDP supports local control and can be remotely controlled from the ground via the UAV comms link while in flight/on station. All cellular network survey information can be output to .csv files and is fully Rover and Raptor compliant.

### HARDWARE DETAILS

#### **RF Tuner Design**

- Four RF paths, independently tunable or phase coherent
- .02 to 6 GHz Frequency Range
- 500 MHz BW per signal path
- 2-stage LO super-heterodyne design
- RF paths can be disabled to save power consumption
- Built in RFD allows for flexible antenna inputs:
  - 1 in to 4 out (allows for single antenna input)
  - 2 in to 4 out (allows flexible antenna configuration)
  - 4 in to 4 out (1 to 1 mapping for DF applications)





### **SWaP DETAILS**

Size

4.29"W x 1.5" H x 6.625" D / 10.9cm W x 3.1cm W x 16.85cm D

Weight 1.7 lbs / 700 grams

Low Power Mode: 52W, High Power Mode: 67W, 9-36 VDC Power

System specifications subject to change without notice, contact factory for current specifications.





**PROVIDING NEXT GENERATION WIRELESS SOLUTIONS**