



AERAS Cellular Network Survey

Multi-band, Multi-format Network Survey

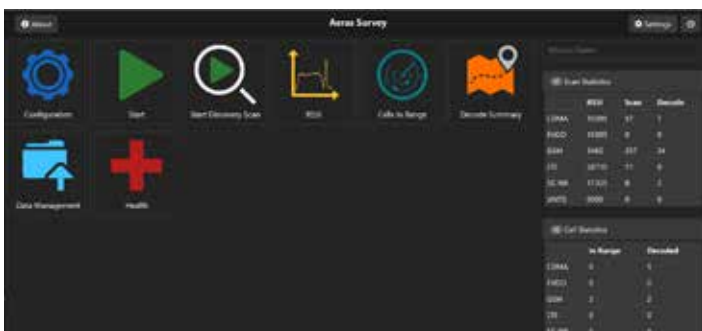
Mod Payload Compliant System

FEATURES

- Software Defined Payload (SDP) fully configured for multi-band, 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
- Upgradeable to GSM/CDMA/UMTS Cellular collection



KIT CONTENTS

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

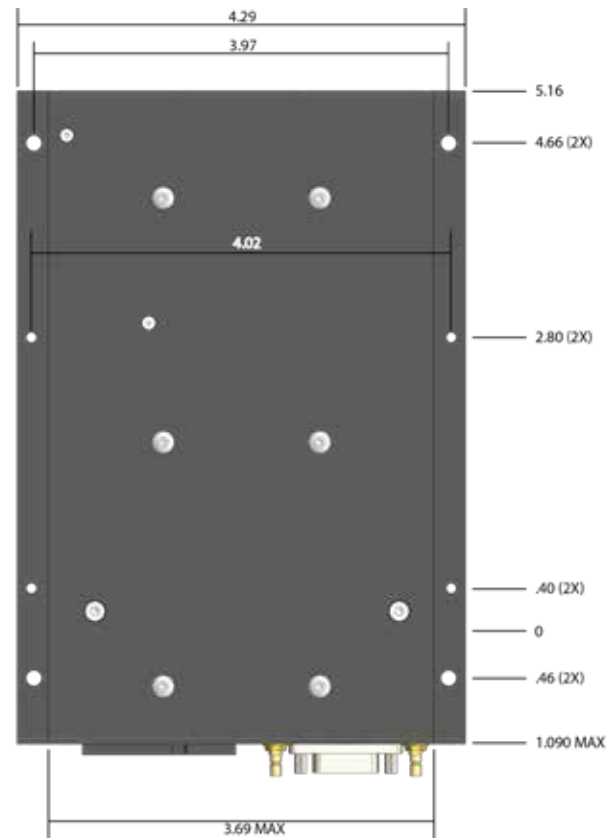
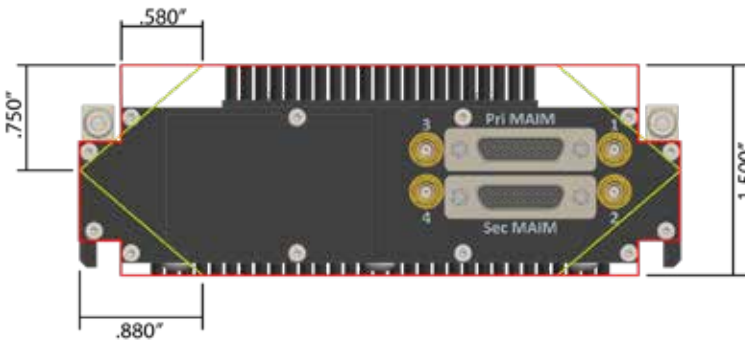
DESCRIPTION

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

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



For more details or questions contact: sales@g3ti.net | +1.410.290.8110

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