

PROVIDING NEXT GENERATION WIRELESS SOLUTIONS

AERAS 2U Mod Payload DPTT/2G-5G Collection Receiver with DPTT/Cellular Discovery and Cellular Network Mapping

FEATURES

COLLECTION:

- Wireless network collection of GSM, CDMA, UMTS, LTE, 5GNR, DMR, P25, NXDN, AM, FM
- Features 3 x 200Mhz tuners
- Frequency range of 75Mhz 6GHz
- Supports real-time and post mission data offload
- Automated data export

SURVEY:

- Simultaneous multi-band, multi-format completely passive machine learning (ML) enabled network survey solution
- Support for GSM, GPRS, EDGE, CDMA2000, 1xRTT, EvDO, WCDMA, HSxPA, LTE, 5G NR, WiMAX, PTT, D-PTT
- Decodes all Broadcast Overhead messages (MIBs, SIBs, etc.)
- Geofence and time-based automated triggers

KIT CONTENTS

- AERAS 2U Receiver
- Mod Payload Compliant omni-directional Cellular
 Antennas
- Cable assembly to conduct bench testing
- Mission Laptop

APPLICATIONS

- Cellular Network Survey and Mapping
- Cellular Collection
- Digital Push-To-Talk (DPTT) Collection
- Local or Remote operations via Networking Kit
- Seamless inter-operability with the SG1550 Family of Systems

DESCRIPTION

AERAS 2U is the quintessential do-it-all system for small form-factor drive survey and collection. From Phase 0 survey operations for both cellular and DPTT to all formats of cellular and DPTT collection; the AERAS 2U is designed to perform both tasks. exceedingly well. AERAS 2U utilizes G3T's industry proven Tetley Scanner software, paired with our in-house designed and built direct conversion tuners to deliver high fidelity cellular survey. AERAS 2U provides coverage from 75MHz to 6GHz with a 3 x 200MHz tuner configuration allowing coverage of multiple bands throughout the spectrum. Data files are output in .G3NS and .GNS formats and compatible with both ROVER and RAPTORX. The receiver houses all of the data until offloaded or retrieved by the user or by automated analytics systems.

Wireless technologies include GSM, CDMA, UMTS, LTE, and 5G. AERAS 2U monitors and decodes Uplink (UL) and Downlink (DL) messages simultaneously, providing for soft geo-location of user equipment (UE) operating with. AERAS 2U is interoperable and interchangeable within the G3T Collection & Analytics ecosystem. Additionally, AERAS incorporates G3T's Non-Alerting Techniques (NATs) and active network characterization tools (HYDRA/TETLEY HANDY) to enable extremely refined UE location.

AERAS 2U is also capable of collecting DPTT (DMR/P25/NXDN/AM/FM) and feeding the data into our Tactalytics data analysis platform. Tactalytics provides precise DMR network link analysis, Pattern Of Life (POL), voice analysis tools and exact metadata to bring the user absolute ground truth on DPTT transmissions and networks. With 3TB of storage the receiver can capture over a billion data records which allows for long term remote or unattended data collection.

SWaP		Protocol Channel Count						
Size Weight	4.29″W x 3.04″H x 6.25″D 2.5 lbs	GSM	128 DDC/ 128 Demod					
Power	95W (requires 2 MAIM connections)	CDMA	FWD Only - 18 Channels, 18 PNs, Max of 6 PNs per Chann					
	18-36 VDC		FWD/REV - 9 Channels, 18 PNs, Max of 6 PNs per Channel					
		UMTS	FWD Only - 6 Channels, 9 PSCs, Max of 3 PSCs per Channel					
Radio Speci	fications		FWD/REV - 3 Channels, 6 PNs, Max of 3 PSCs per Channel					
Tuners Freq Range Storage	3 x 200MHz 75 MHz - 6GHz 3 TB	LTE	FWD Only - 12 Channels, 12 PCIs, Max of 4 PCIs per Channel FWD/REV - 6 Channels, 8 PCIs, Max of 4 PCIs per Channel					
BANDS 2G/GSM - 850/9 2G/CDMA - 450/		5G NR	FWD Only - 12 Channels, 12 PCIs, Max of 4 PCIs per Channel FWD/REV - 6 Channels, 8 PCIs, Max of 4 PCIs per Channel					

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3G/UMTS - All commercially available UMTS bands

User Interface



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