G3 Technologies, Inc.

PROVIDING NEXT GENERATION WIRELESS SOLUTIONS

SPOTTER

Low SWaP Wireless Survey & Collection Receiver for GSM, CDMA, UMTS, LTE, 5G NR, dPTT, & Wi-Fi

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 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 & Wi-Fi
- Decodes all Broadcast Overhead messages (MIBs, SIBs, etc.)
- Geofence and time-based

KIT CONTENTS

- SPOTTER Receiver
- Ruggedized case
- SPOTTER Power Adaptor
- 32GB USB 3.0 Recovery Flash Drive
- Low Band RF Magnetic Mount
- Low Band RF Antenna
- High Band RF/GPS Magnetic Mount
- High Band RF Antenna
- Ethernet Cable
- GPS Antenna
- DC/cigarette adaptor power cable

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

SPOTTER 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 SPOTTER is designed to perform both tasks. SPOTTER utilizes G3T's industry proven software, paired with G3T designed and in-house built, direct conversion tuners to deliver high fidelity cellular survey. SPOTTER provides coverage from 75MHz to 6GHz with a 3 x 200MHz tuner configuration allowing coverage of multiple bands throughout the spectrum. Data files are outputted 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. SPOTTER monitors and decodes Uplink (UL) and Downlink (DL) messages simultaneously, providing for soft geo-location of user equipment (UE) operating with. G3T receivers (SENTRY/SPOTTER) are interoperable and interchangeable within the G3T Collection & Analytics ecosystem. Additionally, incorporating G3T's Non-Alerting Techniques (NATs) and active network characterization tools (HYDRA/TETLEY HANDY) enables extremely refined UE location.

SPOTTER 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 7TB of storage the receiver can capture over a billion data records which allows for long term remote or unattended data collection.

SWaP

Size	3.6" H x 7.6" W x 10" L
Weight	4.7 lbs
Power	90 W, Input: 10-32 VDC

Radio Specifications

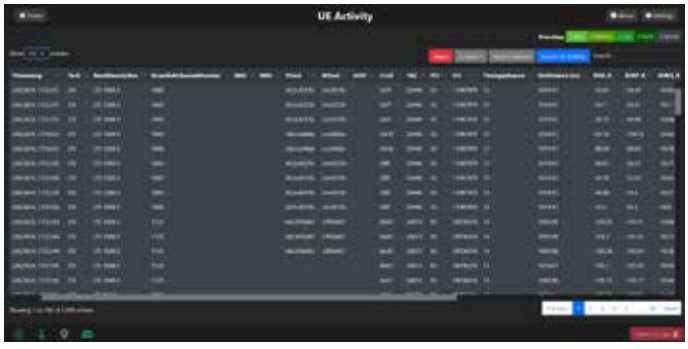
Tuners	3 x 200MHz
Freq Range	75 MHz - 6GHz
Storage	7 TB

BANDS

2G/GSM - 850/900/1800/1900
2G/CDMA - 450/850/1900
3G/UMTS - All commercially available UMTS bands
4G/LTE - All commercially available LTE bands
5G - All 5G NR FR1 bands

Protocol Channel Count

GSM	128 DDC/ 128 Demod
CDMA	FWD Only - 18 Channels, 18 PNs, Max of 6 PNs per Channel 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 FWD/REV - 3 Channels, 6 PNs, Max of 3 PSCs per Channel
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
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



User Interface

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