G3 Technologies, Inc.

PROVIDING NEXT GENERATION WIRELESS SOLUTIONS

Tetley Hydra
2G/3G/4G/5G Network Characterization and Non-Alerting Handset Stimulation

FEATURES
- Embedded Linux computer
- Web-based GUI
- Wireless access point for remote command and control
- Integrated Gigabit Ethernet port for wired access and control
- Front USB 3.0 port for convenient and rapid export of logs

KIT CONTENTS
- Custom fitted Pelican case
- Wi-Fi antenna
- 2x Tetley Handy Kits
- AC power supply
- DC power cable
- Ethernet cable

APPLICATIONS
- Advanced Cellular Network Characterization (with active SIM)
    - Multiple MNOs simultaneously
    - Multiple RATs simultaneously (of same MNO)
- Handset Characterization
    - Handset Stimulation
    - Handset Status

DESCRIPTION
Utilizing G3 Technologies' proprietary Non-Alerting Techniques (NAT), the TETLEY HYDRA allows an operator to perform precise network characterization on cellular networks. The included Tetley Handy network survey handset(s), when equipped with a mobile network operators' (MNO) SIM card, achieve accurate network measurements. Precision analysis of the networks allow the user to better place, task, and employ data gathering resources. For Law Enforcement (LE) users, the TETLEY HYDRA greatly enhances their ability to employ CALEA data, including Penlink.

By applying carefully planned and effective NATs, the timing of targeted updates is now in the users' hands. Because the system is utilizing G3Ts expertise in cellular technology via the Tetley Handy, users can rest assured all messaging and analysis is compliant with 3GPP's specifications of 2G/GSM, 3G/UMTS, 4G/LTE, and the rapidly advancing 5G New Radio (NR) standards. The included Tetley Handy phones may be utilized to perform advance network characterization on different MNO's simultaneously, and can support up to 4 attached Tetley Handy phones.

BANDS

5G

BAND 1- FDD IMT 2100
BAND 2- FDD PCS 1900
BAND 5- FDD CLR 1800
BAND 12 - FDD 700
BAND 25 - FDD EPCS1900
BAND 28 - FDD APT 700
BAND 41 - TDD BRS 2500
BAND 66 - FDD 17/2100 EAWS
BAND 71 - FDD DD 600
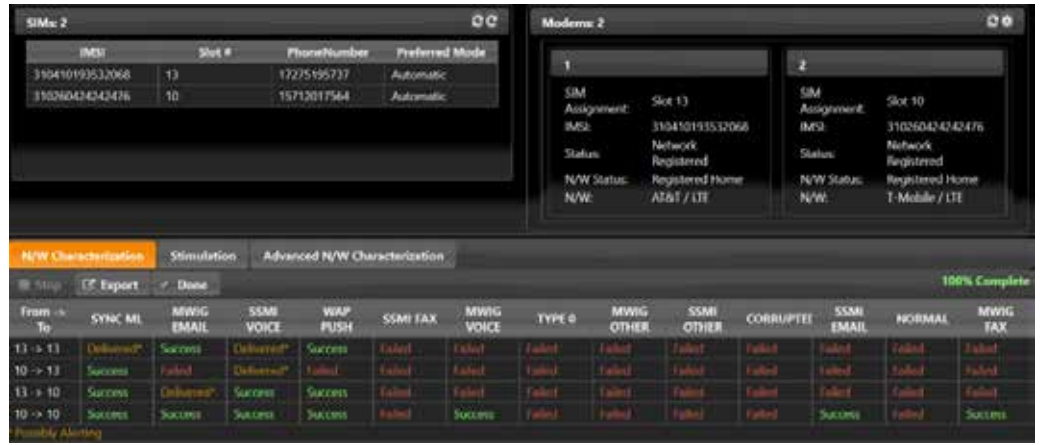BAND 77 - TDD C 3700
BAND 78 - TDD C 3500
SA/NSA/SUB6

LTE

BAND 1 - FDD IMT 2100
BAND 2 - FDD PCS 1900
BAND 3 - FDD DCS 1800
BAND 4 - FDD AWS1 1700
BAND 5 - FDD 850
BAND 7 - FDD IMT-E 2600
BAND 8 - ESGM 900
BAND 28 - FDD APT 700
BAND 40 - TDD S-BAND 2300

UMTS

BAND 1 - 2100
BAND 2 - 1900
BAND 5 - 850
BAND 8 - 900

GSM

BAND 2 - PCS 1900
BAND 3 - DCS 1800
BAND 5 - PCS 850
BAND 8 - EGSM 900

HYDRA Network Characterization Interface

HYDRA NATs Stimulation Report

SPECIFICATIONS

SWAP Details   4.6"L x 4.7"W x 2"H   2 lbs.   Wide input DC supply range (10-28V)
54.7W nominal, 109.5 Max with 2 Phones
Max Current – 9.125A @ 12V with 4 Phones

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

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