G3 Technologies, Inc.

PROVIDING NEXT GENERATION WIRELESS SOLUTIONS

Tacticell 5G
Complete end-to-end 4G and 5G Network Testing Solution

FEATURES

- Selective logging and display of all layers of 3GPP LTE and NR stack as well as useful graphs and analytic tools
- Extensive WebSocket API allowing to send remote commands to each simulated UE to ease test automation
- Easy configuration via JSON files with example configurations already included in each software release
- Easy integration with IP services
- Test features allowing to override the nominal protocol behavior in order to simulate error cases
- Highly optimized software supporting multiple UEs and cells
- Support of all FDD and TDD sub-6GHz bands even non standard ones to test custom frequencies
- Integrated IMS server and eMBMs gateway for Voice Over LTE, SMS and eMBMs testing

KIT CONTENTS

- 5G NR Module
- Controller (NUC, Laptop, or Server Option)
- Multiple Antennas and Power Cable Assemblies
- 5G Test Phone with Provisioned SIMs

APPLICATIONS

- Logging and Measurements
- Automatic Test Setup and Scripting
- Data Traffic Generator

DESCRIPTION

The Pacer Tacticell 5G is a highly dynamic and versatile software definable 4G and 5G indoor test platform that facilitates performance and functional testing of: 5G NR, 4G LTE, Cat-M and NB-IoT UE devices. Its specialized user friendly GUI enables users the ability to create a wide array of standalone 4G and 5G test configurations and scenarios ideal for testing all types of 4G and 5G user equipment as well as the capability of providing a private network for testing specialized 4G and 5G air interface monitoring solutions.

G3T's Tacticell 5G provides:

- *Easy setup of eNodeB, gNodeB SDR components for predefined configurations and scenarios, including multiple 4G and 5G cells when applicable*
- *Robust logging of Ue activity including measurement and real time display of all layers of 3GPP LTE and NR stacks including useful graphs and analytical tools*
- *Simple management of all Ue's and subscribers*
- *Ability to easily configure MIB and SIB parameters and schedule*
- *Web based user interface*
- *Early access to 3GPP features for rapid validation of features under development*
  - *Integrated*
    - *3GPP compliant eNodeB and gNodeB*
    - *4G and 5G Cores*
    - *IMS Server*
    - *eMBMS Gateway*
  - *Supports*
    - *Up to 1000 UE's*
    - *Data rates up to 600Mbps – DL and 150Mbps – UL*
    - *Carrier Aggregation, including mixed mode FDD/TDD*
    - *Hand over*
    - *Cell reselection*
- *Compact size easily fits on desktop or lab bench*

RF

- MIMO   2 x 2 (4 x 4 upon request)
- Max bandwidth supported   50 MHz standard (100 MHz on request)
- Max number of LTE Cells   3
- Max number of 5G cells   3
- Max number of cells total (LTE, 5G, IoT, etc.)   3
- Tx Out   -21 to 12 dBm depending on frequency

SPECIFICATIONS

	Size	Weight	Power
TACTICELL-5G SWaP Details	14.5"L x 17.5"W x 6.5"H	30 lbs.	100 W Input: 110 VAC
NUC SWaP Details	4.5" X 4.5" X 1"	1 lbs.	100 W
Wireless Technologies			LTE 3GPPS All Releases, 5G NR 3GPP Release 15

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

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