Siretta

Enabling Industrial IoT

SNYPER-LTEM (GL)

4G/LTE Cat M, LTE Cat NB IoT, & 2G/GSM Signal Analyser & Datalogger

General Description

The SNYPER-LTEM Graphyte (GL) is a high performance, multi-language network signal analyser and cellular signal logger, dedicated to surveying and logging the 4G/LTE Cat M (GL), LTE NB IoT & 2G/GSM Global networks.The unit can be left to conduct sequential surveys in a fixed location and automatically save them. Three types of survey can be performed to see if base-stations are present in the local vicinity: LTE Cat M, LTE NB IoT and 2G/GSM. Signal strength and cell parameters can be detected on LTE Cat M and on 2G/GSM. LTE NB IoT detects the presence of a cell and other cell parameters, though signal strength for NB IoT is not yet available.

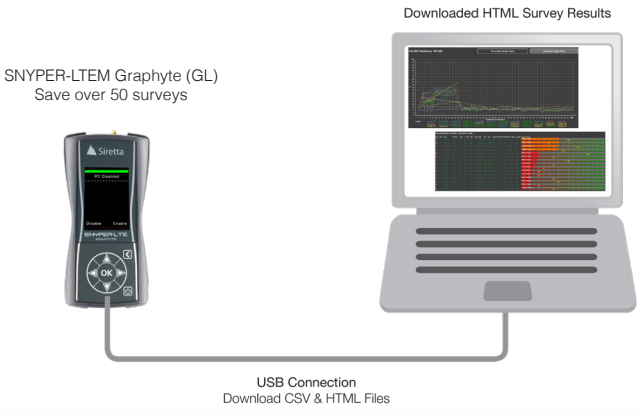
SNYPER-LTEM Graphyte (GL) can save multiple surveys each with different logging options. All survey results can be downloaded to a PC and displayed in a HTML graphical format to clearly show the logged detail over the survey session. This helps in identifying unreliable base-stations & intermittent cellular service which is not possible with spot surveys. The full breakdown for the HTML summary graphs are displayed in corresponding CSV files, allowing users to analyse the data and make informed decisions.

Features

2G GSM	LTE Cat M	LTE NB IoT	GL Coverage				
USB Power	USB Serial	HTML Reports	CSV Reports	LOG Surveys	MAP Portal	AUTO SAVE Logs	RTC Timestamp
TFT Display	2Ah Battery	Win Linux/Mac	MNO Summary	SAVE 50 Surveys	MULTI Language	-10 +50 deg C	P2P Alignment

Featured Applications

- Enhanced cellular surveying & sequential logging of new and existing installations on 4G/LTE Cat M, LTE NB IoT & 2G/GSM
- User selectable logging options to determine most reliable mobile operator
- Presets for both survey cycles & survey intervals
- Evaluate MNO's performance over time
- Results are reported in CSV & graphical HTML format
- Save multiple logged surveys



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General Features

» 13 Supported Bands LTE (MHz):
B1 (2100) / B2 (1900) / B3(1800) / B4 (AWS 1700) / B5 (850) / B8 (900) / B12 (700) / B13 (700) / B18 (800)/ B19 (800) / B20 (800) / B26 (850) / B28 (700)
» 4 Supported Bands GSM / GPRS (MHz):
B2 (1900) / B3 (1800) / B5 (850) / B8 (900) MHz
» View LTE Cat M and 2G/GSM signal strength and cell parameters
» View NB IoT cell parameters
» Omni-directional antenna: 700MHz to 2300MHz
» Presets for survey cycles(10) & survey intervals(12)
» Large easy to read LCD display
» Logical menus and operation
» Long life rechargeable battery
» USB download of device results to PC
» USB car charger included
» Rugged and durable construction
» Supplied in a hard carrycase
» Multiple language support
(English/French/German/Italian/Spanish)
» 3 result modes:
Standard/Advanced/Engineer
» USB cables for PC connection and power/charging

Interfaces

» 1 x USB 2.0 FS (12 MBits/s) for PC interface and for battery charging
» 1 x SMA female cellular antenna connector
» 1 x SIM card reader (push-push) 3V, 1.8V
» Red LED charging indicator
» Display: 2.4” Diagonal QVGA 240 x 320 RGB TFT with LED backlight
» Display: 80 degree viewing angle
» Display Brightness: 500md/m2

Power Supply

» Mains Input: 100-240V 50/60Hz
» Multi-region Heads: UK / EU /US / AU
» Charger O/P: 5V DC 2000mA

Environmental

» Dimensions
SNYPER: 141mm x 76mm x 36mm
Compact antenna: 78mm x 11mm
Directional antenna: : 167mm x 173mm x 27mm
» Weight
Without antenna: 200 grams
With supplied compact antenna: 207 grams
» Operating Temperature Range: -10 to +50 deg C
» Storage Temperature Range: -20 to +50 deg C
» Operating Humidity Range: 20 to 85% RH Non-condensing
» Battery: Lithium Ion 3.7V, 2000mAh
» Life: 48 hours based on 20 surveys /day at room temperature with auto power off enabled

Reporting

Survey Logging

» Select survey sessions from 1 to 500 sequential recorded surveys
» Select back-to-back or time lapsed sequential survey recording
» Calculate seen percentages and signal averages for entire surveyed session

HTML Reporting

» Graphical display ordered by signal strength
» Complete summary breakdown for all recorded cells
» Recorded survey date and time
» Access to Siretta’s mapping portal, CloudSURVEY (Registration Required)

CSV Reporting

» Complete survey breakdown for each recorded cell

Approvals and Compliance

» CE
» FCC

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