



## SNYPER-IoTS Graphyte (GL)

NTN, LTE-M, NB-IoT, & 2G/GSM Signal Analyser & Datalogger



### General Description

The SNYPER-IoTS Graphyte (GL) is a high performance, multi-language network signal analyser and cellular signal logger, dedicated to surveying the NTN (Satellite), LTE-M, NB-IoT & 2G/GSM networks.

The unit can be left to conduct sequential surveys in a fixed location and automatically save them. Different types of survey can be performed: a "FULL" survey (NTN, LTE-M, NB-IoT and 2G), or any combination of NTN, LTE-M, NB-IoT and GSM

Each survey logs network signal strength, cell parameters, and location via the internal GNSS receiver. Surveys can be chosen to be a single cycle or multiple cycles. Multi-cycle surveys can identify unreliable cells or satellites & intermittent cellular service which is not possible with single surveys.

SNYPER-IoTS Graphyte (GL) can typically save 10,000 single cycle surveys onto the internal solid-state memory! Results may be downloaded using a USB-C connection to a PC in CSV or HTML formats. This allows users to analyse the collected cell data in a spreadsheet or a web browser to make informed decisions.

The powerful SNYPER-IoTS Graphyte (GL) summary page displays the relative signal levels and operators of all the cells discovered allowing the user to determine most suitable mobile network operator available.

The SNYPER-IoTS Graphyte (GL) can also be used to help establish optimum antenna placement and perform local site surveys.

### Features

2G GSM	4.3Ah Battery	AUTO Setup	Tripod Clip	CSV Reports	Cloud SURVEY	GEAR Accessories	HARD Carry Case	HTML Reports	Infinite Surveys
LIVE SCAN Logs	LOG Surveys	LTE NB-IoT	MNO Summary	MULTI Language	P2P Alignment	RTC Timestamp	SCAN Realtime	SIM Free	TFT Display
USB C Connector	USB Power	Win Linux/Mac	WW Global	LTE M	NTN Satellite	GNSS Position			

### Featured Applications

- » Determine when to use NTN rather than a terrestrial network
- » Enhanced cellular surveying of new and existing installations on NTN, LTE-M, NB-IoT & 2G/GSM.
- » Establish most suitable network operator for the application.
- » Determine optimum antenna placement.
- » Evaluate the "preferred" network operators performance.
- » Results are reported in CSV & graphical HTML format.



#### CLOUD SURVEY



USB-C Connection



## SNYPER-IoTS Graphyte (GL)

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### General Features

- » 3 Supported Bands IoT-NTN (MHz):
  - » n23 (1600), n255 (1600), n256 (2100)
- » 18 Supported Bands LTE-M (MHz):
  - » B1 (2100) / B2 (1900) / B3 (1800) / B4 (1700) / B5 (850) / B8 (900) / B12 (700) / B13 (700) / B14 (700) / B18 (850) / B19 (850) / B20 (800) / B25 (1900) / B26 (850) / B27 (800) / B28 (700) / B66 (1700) / B85 (700)
- » 17 Supported Bands NB-IoT (MHz):
  - » B1 (2100) / B2 (1900) / B3 (1800) / B4 (1700) / B5 (850) / B8 (900) / B12 (700) / B13 (700) / B18 (850) / B19 (850) / B20 (800) / B25 (1900) / B26 (850) / B28 (700) / B66 (1700) / B71 (600) / B85 (700)
- » 4 Supported Bands GSM / EGPRS (MHz):
  - » B2 (1900) / B3 (1800) / B5 (850) / B8 (900)
- » GNSS Support:
  - » GPS, GLONASS, BeiDou and Galileo
- » View cell signal strength and cell parameters
- » View number of GNSS satellites observed by constellation
- » 480 x 640 colour TFT display
- » Long life rechargeable battery
- » USB-C cable for PC connection and power/charging
- » USB-C download of device results to PC
- » Rugged and durable construction
- » Integrated belt clip
- » Supplied with a hard carrycase for device and accessories
- » Multiple language support (English/French/German/Italian/Polish/Spanish)

### Interfaces

- » 2 x SMA female cellular antenna connectors
- » 1 x SMA GNSS antenna connector
- » 1 x SIM card reader (push-push) 3 V, 1.8 V
- » Red LED charging indicator
- » Display: 2.4" Diagonal VGA 480 x 640 RGB TFT with LED backlight
- » Display: 80 degree viewing angle
- » Display Brightness: 700 md/m2

### Recommended Power Supply

- » USB A Charger O/P: 5 V DC 2000 mA

### Supplied Accessories

- » 1 x Cellular Antenna (600 MHz - 3800 MHz)
- » 1 x NTN Antenna (1600 MHz - 2500 MHz)
- » 1 x GNSS helical antenna
- » Male USB-A to Female USB-C adaptor
- » 2 m USB-C 2.0 for PC interface and for battery charging
- » Mini Tripod
- » Mounting Adaptor for Mini Tripod
- » LiveSCAN Antenna
- » 1.5m LiveSCAN Low Loss cable

### Environmental

#### Dimensions

- » SNYPER: 141 mm x 76 mm x 36 mm
- » Weight without antenna: **TBD**
- » Operating Temperature Range: -10 to +60 deg C
- » Operating Humidity Range: 25 to 85% RH Non-condensing
- » Battery: Sufficient for a 12 hour continuous survey (typical)

### Reporting

#### HTML Reporting

- » Graphical display ordered by signal strength
- » Complete summary breakdown for all recorded cells
- » Recorded survey date, time and position
- » Access to Siretta's [CloudSURVEY](#) portal for storing and viewing surveys (Registration Required)

#### CSV Reporting

- » Complete survey breakdown for each recorded cell
- » Spreadsheet format allows for easy analysis

### Approvals and Compliance

- » UKCA » CE » FCC » RoHS



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### Model Available

SNYPER-IoTS Graphyte (GL) Network Signal Analyser & Data Logger with Accessories & Hard Carry Case

Stock Code: **62530**

