

SNYPER-IoT-450 Graphyte (GL)

LTE 450 MHz, LTE-M, NB-IoT & 2G/GSM Signal Analyser & Datalogger

General Description



The SNYPER-IoT-450 Graphyte (GL) is a high performance handheld cellular signal analyser and datalogger, dedicated to surveying LTE450, LTE-M and NB-IoT networks used within utility, smart metering, industrial IoT and critical infrastructure applications.

Operating on low frequency 450 MHz cellular networks, the unit enables installers, system integrators and network operators to identify available networks, measure signal strength and quality, and determine optimum antenna placement for reliable remote connectivity. The lower frequency operation of LTE450 provides enhanced signal penetration and extended coverage capabilities, making it particularly suited to rural, underground and hard-to-reach installations.

The unit can be left to conduct sequential surveys in a fixed location and automatically save them. Surveys can be configured as single or multi-cycle operations, allowing users to identify intermittent cellular service, unreliable base stations and fluctuating network performance that may not be visible during a single survey cycle.

Network operator, signal strength and unique cell parameters are measured and recorded during every survey cycle. Survey results can be downloaded to a PC via USB-C connection in CSV and graphical HTML reporting formats for further analysis and reporting.

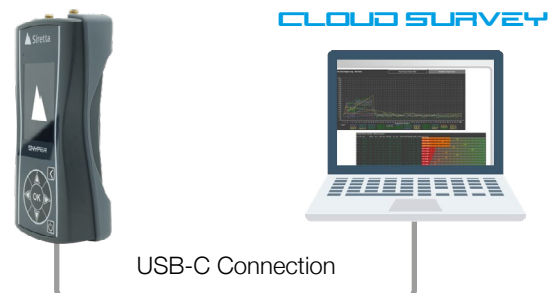
The powerful summary screen displays the relative signal levels and available operators of all discovered cells, enabling users to determine the most suitable network for the application. The SNYPER-IoT-450 Graphyte (GL) can also be used to assist with antenna alignment, infrastructure deployment planning and local site surveys for utility and industrial IoT installations.

Features



Featured Applications

- » Utility and smart metering network deployments
- » LTE450 infrastructure and coverage surveys
- » Industrial IoT and remote telemetry installations
- » Determining optimum antenna placement and alignment
- » Results reported in CSV and graphical HTML formats





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General Features

- » 4 Supported Bands 4G LTE (MHz):
 - » B3 (1800) / B20 (800) / B31 (450) / B72 (450)
- » 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)
- » View signal strength and cell parameters
- » 480 x 640 colour TFT display
- » Logical menus and operation
- » 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/Spanish)

Recommended Power Supply

- » Mains Input: 100-240V 50/60Hz
- » USB A Charger O/P: 5V DC 2000 mA

Approvals and Compliance

- » UKCA
- » CE
- » RoHS

Environmental

Dimensions

- » SNYPER: 141mm x 76mm x 36mm
- » Weight without antenna: 253 grams
- » 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 and time
- » 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

Supplied Accessories

- » 1 x Antenna (600 MHz - 3800 MHz)
- » 1 x Antenna (450 MHz)
- » 2 M USB-C 2.0 for PC interface and for battery charging
- » Male USB-A to Female USB-C adaptor
- » Mini Tripod
- » Mounting Adaptor for Mini Tripod
- » LiveSCAN Antenna
- » 1.5m LiveSCAN Low Loss cable

Interfaces

- » 2 x SMA female cellular antenna connector
- » 1 x SIM card reader (push-push) 3V, 1.8V
- » 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 cd/m²



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Model Available

SNYPER-IoT-450 Graphyte (GL) Network Signal Analyser & Data Logger with Accessories & Hard Carry Case:

Stock Code: **62696**