



SENTRY-G-LTE4 (EU) / SENTRY-G-LTE4 (US)

4G/LTE, 3G/UMTS & 2G/GSM Remote Signal Analyser & Datalogger with GNSS



* SENTRY requires a SIM Card

Note: 2G / GSM is only available for use on the EU model

Features

General Description

SENTRY is a stand-alone remote cellular network analyser that passively monitors the cellular environment that it is placed within and sends the data back to a cloud based management portal (CloudSURVEY) where this can be viewed and analysed. As well as passively observing the cellular environment, the SENTRY may optionally carry out performance tests on the cellular network to which it is registered to and measure parameters such as connection time, latency, and data transfer rates.

The SENTRY performs the measurements and tests from user requests on the cellular environment, using an embedded STM32F405 Arm® Cortex® M4 core CPU in conjunction with the cellular engine. The integrated GNSS receiver also determines the location where each cellular survey is carried out. The SENTRY runs the network tests and then immediately uploads the test results and location data via an encrypted connection to the CloudSURVEY Portal. The CloudSURVEY portal can display the detailed results of the cellular network testing.

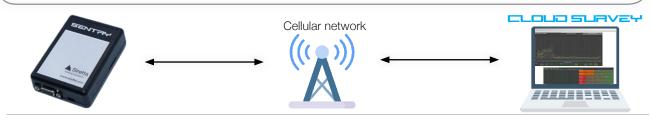
Performance monitoring surveys additionally show cellular, TCP/IP and Socket registration times, uplink/downlink speeds, ping times, and comparative data with other cells of the same network.

In areas where there is poor and/or intermittent cellular coverage, it is possible to configure the SENTRY to output its measurements on an RS232 serial port rather than post data to the CloudSURVEY portal.



Featured Applications

- Cellular surveying & logging of new and existing » installations on 4G / 3G / 2G networks
- Remote operation with live data (SIM Required*) »
- User selectable logging options to determine » most reliable mobile operator
- Evaluate MNO's performance over time »
- Cellular performance monitoring (Registration time, socket connection times and TCP/IP registration, Ping time, upload-download speed testing)
- Determine "hotspot zones" & "dropout zones" »
- Integrated Mapping Portal enabled (registration required) »



Registered in England No. 08405712 VAT Registration No. GB163 04 0349

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General Features

SENTRY-G-LTE4 (EU)

- » 2 Supported Bands GSM
 - » B3 1800 MHz
 - » B8 900 MHz
- » 3 Supported Bands UMTS
 - » B1 2100 MHz
 - » B3 1800 MHz
 - » B8 900 MHz
- » 6 Supported Bands LTE
 - » B1 2100 MHz
 - » B3 1800 MHz
 - » B7 2600 MHz
 - » B8 900 MHz
 - » B20 800 MHz
 - » B28A* 700 MHz

Interfaces

- » 3 x external LED status indicators (Red, Green, Blue)
- » 1 x RS232 Serial Port
- » 1 x Mini-B USB Port
- » SIM card reader for mini-SIM (2FF)
- » RJ12 Power Connector (5 42V)
- » GNSS SMA Connector
- » Cellular Antenna SMA Connector
- » Nominal supply 12V

Environmental

- » Dimensions: 93mm x 67mm x 28mm
- Weight: 99 grams (unit only)
- » Extended Temperature Range: -40 to +85 °C

Power Supply

- » Mains Input: 100 240V 50 / 60Hz
- » Multi-Region Heads: UK / EU / US / AU
- » Output 12V DC 1A

SENTRY-G-LTE4 (US)

- » 3 Supported Bands UMTS
 - » B2 1900 MHz
 - » B4 1700 MHz
 - » B5 850 MHz
- » 8 Supported Bands LTE
 - » B2 1900 MHz
 - » B4 1700 MHz
 - » B5 850 MHz
 - » B12 700 MHz
 - » B13 700 MHz
 - » B14 700 MHz
 - » B66 1700 MHz
 - » B71 600 MHz

Accessories

- » 1 x Multi-region Power Supply
- » 1 x Cellular Antenna
- » 1 x GPS Antenna
- » 1 x RS232 Serial to USB Cable
- » 1 x Mini-B USB Cable
- » 1 x Pin Reset Tool

Approvals and Compliance

- » UKCA
- » CE
- » FCC (TBC)
- » E11 (TBC)
- » RoHS
- » REACH

* B28A is a subset of B28 using the lower duplexer frequencies (Tx: 703-733 MHz / Rx: 758-788 MHz)

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Reporting

Remote Survey Logging

- » User selected time surveys (Duration specific survey)
- » Dynamic survey mapping
- » User controlled start-stop survey function
- » Select continuous or fixed time lapse surveys
- » Calculate seen percentages and signal averages for the entire surveyed session

Network Performance Analysis

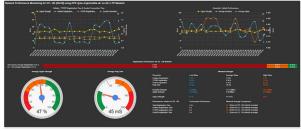
- » Registration time
- » Socket connection times
- » TCP/IP registration
- » Ping time (Latency)
- » Upload-Download speed testing

Identify 'Blackspots'

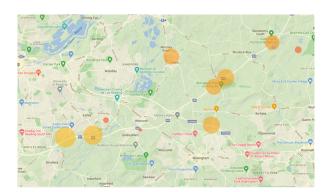
- » To provide better connectivity to remote areas and ensure equal access to communication services
- » Help service providers improve their network infastructure and expand their coverage to areas where it is currently unavaliable or patchy
- Identify cellular blackspots for emergency services, as these areas may not have adequate connectivity for people to call for help

CloudSURVEY Portal

- » Graphical display ordered by signal strength
- » Complete summary breakdown for all recorded cells
- » Recorded survey date and time
- » Integrated mapping portal enabled (registration required)



1. Average Ping time 2. Cellular Signal Strength 3. Network speed



Ordering Information

- » SENTRY-G-LTE4 (EU)
- » SENTRY-G-LTE4 (EU) with accessories 61959
- » SENTRY-G-LTE4 (USA)
- » SENTRY-G-LTE4 (USA) with accessories 61968
- 61958 For European networks
 - For European networks
- 61993 For North American networks
 - For North American networks

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