PRODUCT SUPPORT

Signal Analyser 2

Updated March 4, 2026

CSL Signal Analyser 2 is a professional mobile network signal testing tool designed for multi-sector applications, including security systems, utilities, healthcare technology, and smart infrastructure projects. It accurately identifies the strongest available cellular network to ensure optimal device placement, reliable connectivity, and improved signal performance.

With advanced features for network monitoring, signal surveying, and multi-network analysis, CSL Signal Analyser 2 streamlines installation, network optimisation, and troubleshooting, making it an essential solution for professionals requiring fast, accurate mobile signal testing.

Latest information
https://www.csl-group.com/support/csl-signal-analyser-2-0/

Quick Guide

Charging CSL Signal Analyser 2 and Downloading the App

1.Charge the Signal Analyser

LED **Flashing Red** = Charging
LED **Red** = Fully charged

2. Download the app

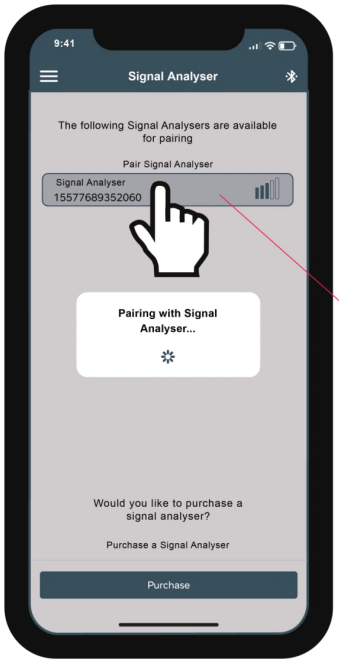
GET IT ON Google Play

Download on the App Store

- Once downloaded and installed, open the app
- Click on the Signal Analyser tile

Pairing Your Device To CSL Signal Analyser 2

3. Pair your device to the Signal Analyser



Power on the Signal Analyser by pressing the ON button /LED
LED **Green** = Ready to pair

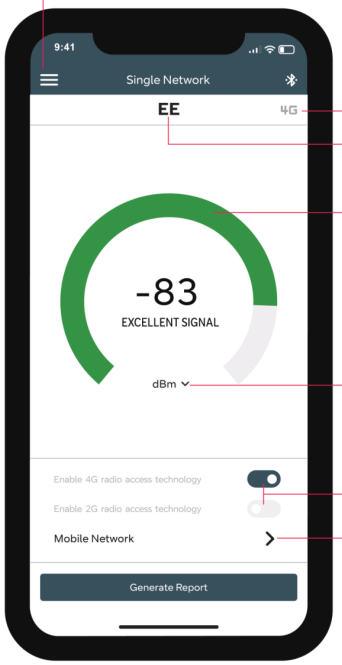
Pair your device with the Signal Analyser via the app

Verify your device is paired by checking the LED on the Signal Analyser
LED **Purple** = Bluetooth paired

Follow the prompts to begin a site survey

Single Network

4. Single Network



Select mode
- Single Network
- Mulit-Network
- Analytic

Mobile technology selected

Network selected

Signal Strength

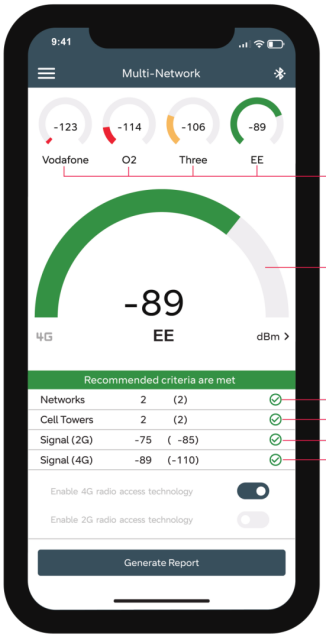
Change between dBm and % units

Toggle between 2G and 4G

Change mobile network

Multi-Network

5. Multi-Network



Main mobile networks

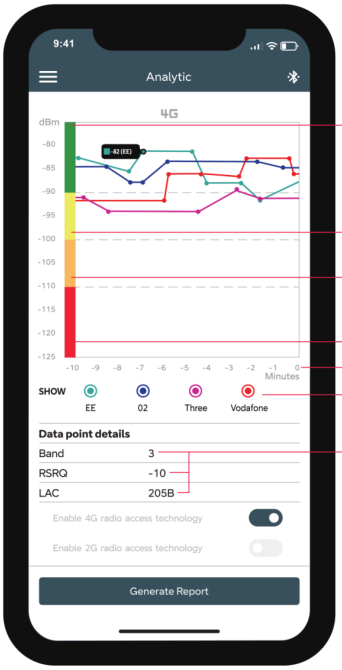
Signal strength of the best network

Recommended minimum network criteria

- Two diverse networks
- Two distinct cell towers
- Signal at least -85 dBm for 2G
- Signal at least -100 dBm for 4G

Analytic

6. Analytic



Green is an excellent signal

Yellow is a very good signal

Orange is a good signal

Red is a poor signal

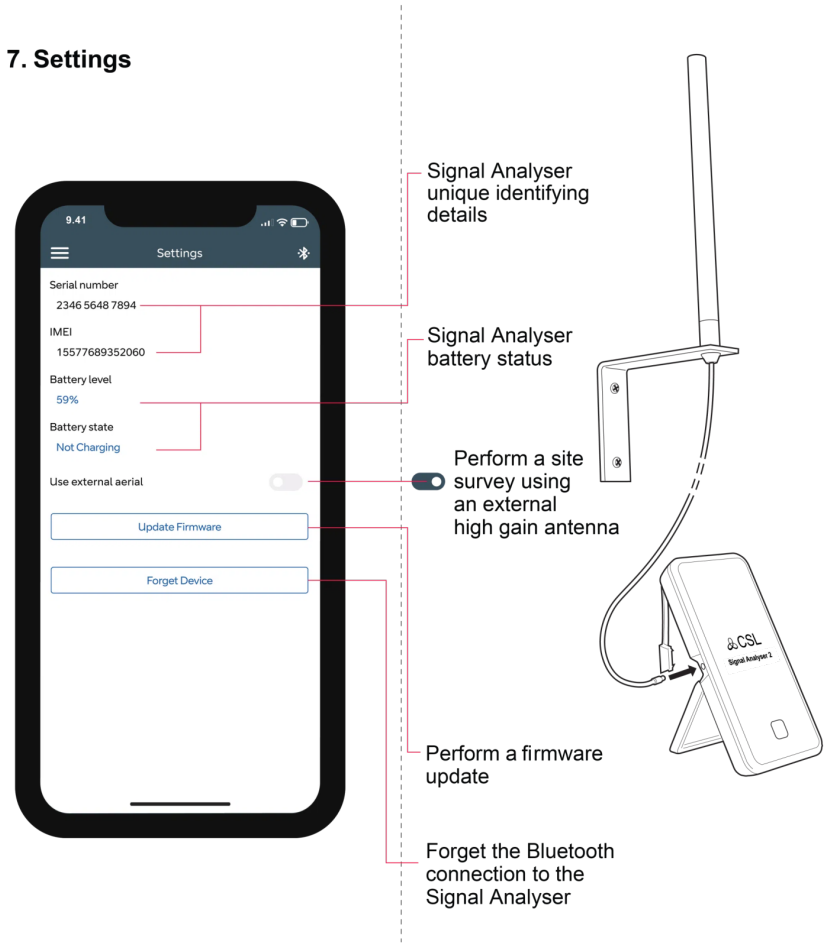
Up to 10 minutes of data is displayed

Pressnetwork buttons to toggle graph visibility

Details are displayed when pressing data point on the graph

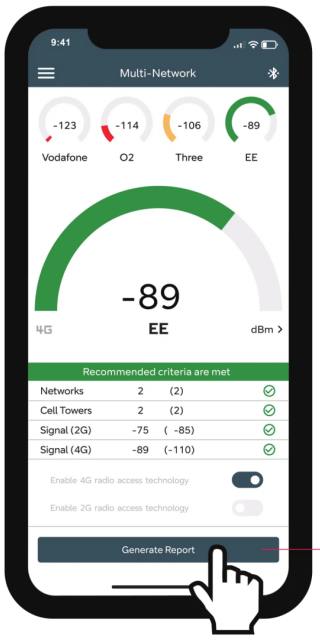
- Band = Frequency band
- RSRQ = Signal quality
- LAC = Cell tower Location Area Code

Settings


7. Settings
9.41
Settings
Serial number
2346 5648 7894
IMEI
15577689352060
Battery level
59%
Battery state
Not Charging
Use external aerial
Update Firmware
Forget Device
Signal Analyser unique identifying details
Signal Analyser battery status
Perform a site survey using an external high gain antenna
Perform a firmware update
Forget the Bluetooth connection to the Signal Analyser

Generate Report

8. Generate report



Site Survey Recommendations

1) Single Network: find the best installation location for a particular network
2) Multi-Network : ensure the recommended network criteria are met
3) Analytic: check signal variation over time and compare this across 4 networks
4) Save Report: Share cofirmation that the site meets recommended criteria and summary of results

Press and follow the report generation wizard, including adding and annotating relevant photos taken from the site, saving and sharing the pdf

Report includes graphs, tabulated data, and a conclusion confirming that the site meets recommended criteria

Specifications

Operating Frequencies:

LTE: 700, 800, 850, 900, 1800, 1900, 2100, 2300, 2500 and 2600

(Bands: 1, 2, 3, 4, 5, 7, 8, 20, 28, 66, 38, 40, 41)

GSM: 850, 900, 1800 and 1900 MHz

– Bluetooth: 2.4 GHz to 2.483 GHz

– ISM RF: 868 MHz

USB-C Powered 5V, 500mA

Battery Rating 3.7V Lithium Polymer, 1000mAh

Charge device only between 10°C and 35°C Store device between 0°C and 50°C

Equipment model 207565 shall be powered using a power supply / charger (Output 5Vdc, 2A) approved in its country of use

Safety

This product contains a Lithium Polymer rechargeable battery
No user serviceable parts inside

Only use with an approved battery
Batteries may explode, burn or cause a fire if misused or mishandled

DO NOT eat or swallow the battery

DO NOT use if battery or enclosure

damaged in any way

DO NOT expose to liquids or high temperatures

Datasheet

Key Features

- Single and multi-network monitoring
- Live analytic function to find the optimum installation location
- Device works alongside an App making firmware updates easy and accessible
- Ability to connect to an existing aerial
- Works across 4G and 2G Networks
- No SIM required
- Produces exportable reports (PDF)
- Multilingual – 11 languages

Specification

Model	CS.1.601
Dimensions	150mm x 74mm x 18mm
Weight	73g
Warranty	2 years
Radio Technology	2G/GSM 4G/LTE
Bluetooth	2.4 GHz to 2.483 GHz
ISM RF	868 MHz
Battery	3.7V lithium polymer, 1100mA

Charger/Charging	USB-A to USB-C charging cable Charge device only between 10c and 35C
Aerial Connection	MMCX
Languages	English, German, Spanish, Italian, French, Danish, Dutch, Finnish, Czech, Portuguese, Swedish, English American

Operating Frequencies

LTE: 700, 800, 850, 900, 1800, 1900, 2100, 2300, 2500 and 2600

Bands: 1, 2, 3, 4, 5, 7, 8, 20, 28, 66, 38, 40, 41

GSM: 850, 900, 1800 and 1900 MHz

FAQs

Does the 4G Analyser work outside of the EU?

The radio module in the device is able to work worldwide and therefore the device is able to work in most countries, subject to local approval.

Does the 4G Analyser work in the Republic of Ireland?

Yes, the 4G Signal Analyser works in Ireland.

What technologies does the Signal Analyser measure?

The Signal Analyser monitors 2G and 4G only. You can swich between these technologies via the toggle at the bottom on the survey screen.

Does the device only measure radio technologies?

Yes, the device includes a radio module only which measures 2G and 4G.

Do I need a SIM?

The Signal Analyser does not require a sim.

The aerial I'd like to connect to has an SMA connector, how do I connect to this?

An MMXC to SMA adaptor is included with the Signal Analyser 2, this can be used to connect to SMA.

How does the Signal Analyser connect to the App?

The device and analyser are connected via Bluetooth. Please ensure the Bluetooth on your mobile is switched on to allow connection.

How do I find out specific information on a network while in Analytic mode?

Once the device has been running for a number of minutes you will notice small dots on the line graph, these can be selected to see more detailed information at that specific time on a particular network.

How do I generate a report?

The device must be monitoring for at least 4 minutes on either Signal Network, Multi Network or Analytic mode before a report can be generated. Once ready you can then select generate report. A report will then be created and ready for you to share and download.

Where can I view my saved reports?

In the saved reports section on the App you can select and view your saved reports along with share them as a PDF via various channels e.g. Airdrop, message, Team, WhatsApp. Once shared you can then open the PDF and view the survey.

I have checked the VoLTE option but cannot see it in any report – how do I find this?

As VoLTE just works over a standard 4G frequency (in Europe, this is typically band 20), you should see results for that band in the report. If you untick it, you may not see band 20 in the results.

How does the device know I'd like to connect an external aerial?

Once the Signal Analyser is paired with the app, go to Settings and toggle 'Use external aerial'.