



checkFox



Instant autonomous universal Sigfox coverage measurement device

- + Sigfox + GPS + GSM + accelerometer
- + velocity + temperature + graphical display
- + complete CheckFox dashboard + local logging

Always logging both to the local device memory and to the CheckFox dashboard:

- | | | |
|------------------|--|-------------------|
| ▪ Measurement ID | ▪ Sigfox Geolocation position | ▪ Velocity |
| ▪ Time | ▪ Sigfox strength (RSSI, SNR, repetitions, TAP ID) | ▪ Temperature |
| ▪ GPS position | ▪ GSM strength | ▪ Battery voltage |
| ▪ GPS strength | ▪ Acceleration | ▪ Timer |
| ▪ Altitude | ▪ Orientation | ▪ Custom tags |

General features

HARDWARE:

- Small water-resilient and dust-proof independent box
- Highly energy efficient, long lasting Li-Pol battery, rechargeable through USB-C
- 2200mAh (thousands of Sigfox test messages on a single battery charge)
- Highly readable, backlit, low power display
- GSM 2G/3G worldwide compatibility
- WiFi
- Beeper for acoustic notification
- Dimensions: 88 x 25 x 146 mm (W x H x D)
- Weight: 245g (without antenna), 252g (with lambda-da/4 antenna)

FIRMWARE:

- Assembly language programmed to be robust, quick, cheap and low power
- Over the air upgradable (OTA)

- Intuitive interface/no printed manual needed
- Format of data open and documented
- Encrypted data transmission
- Auto/timer switch off
- Data load configurable on the device
- GPS of last position can be used if no GPS position locked during measurement
- If no GSM present, data is logged and transferred once GSM is available

DASHBOARD:

- Organisation, branch, user, test run rights management
- Visualisation
- SSO, real cloud hosting/security/availability
- Remote management of Checkfox devices

www.simplehw.eu

[#simplehw](https://twitter.com/simplehw)

[#checkfox](https://twitter.com/checkfox)

simple hw

simple things

User modes configurable on the device via CheckFox dashboard:

01_REFERENCE COVERAGE AND THIRD PARTY HW RADIO PERFORMANCE MEASUREMENT

- Ten messages, lambda/4 shift, number of base-stations, number of repetitions
- Direct and graphical comparison on dashboard with third party HW radio performance measurement with expanded statistical processing - just add the ID of the measured device

02_SIGFOX OPERATOR MODE

- Messages, ID and names of base-stations, RSSI, SNR, including total numbers and total repetitions displayed instantly at both Checkfox device and Checkfox dashboard
- Visualisation of the results on the web including distance calculation to base-stations
- Instant comparison (delta) with computed model
- Ability to compare and calculate immediately indoor/outdoor
- Sigfox geolocation logging and delta evaluation

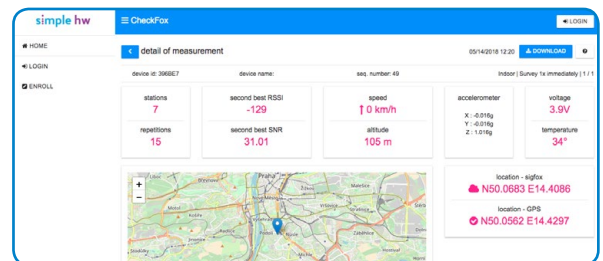
03_CHANNEL/PARTNER MODE

- Access to ID of base-stations, messages RSSI, SNR, repetitions including totals
- Instant comparison (delta) to computed model
- Ability to compare and calculate immediately indoor/outdoor

- Ability to add/upload photos from measurements to the CheckFox dashboard (Camera not included in this version :)

04_MEASURING WHILE DRIVING

- Measure each minute and automatically measure while stationary
- Velocity logging
- Visualisation and comparison with prediction model
- 05_End user/installer mode
- Excellent, Good, Border, Nothing (values configurable)
- Mode for 1 meter and ground level outdoor reference measurement before installation
- Configurable Self timer for in-cabinet measurement
- Manual tagging to distinguish types of measurement (Im, ground, place and/or outdoor/indoor)
- Forcible reference measurement to be sure the antenna is screwed properly



DASHBOARD COMPARISON:

1. Does the outdoor reference measurement match coverage prediction?
2. Does the device to be installed match the radio performance of reference device outdoor?
3. Is there a coverage at installation site and what is the attenuation
4. Does the installed device perform properly and is the attenuation the same as that of reference device?

Brought to you
by **Simple Hardware**
and proudly produced
in the Czech Republic

- 1 unit / **250€**
- 5 units / **1.000€**
- Including 2 years of dashboard access
- additional 2 years for 50 EUR
- USB-C charger not included / Mini SIM card not included