

mobifinder[®] 5 LTE/GSM(2G/4G/5G DSS)

Detection and localisation of active mobile phones

General

mobifinder[®] 5LTE/GSM(2G/4G/5G DSS) is a device for detecting phones in

- 2G mode GSM 900MHz, GSM1800MHz uplink frequency range
- 4G mode LTE (long term evolution mode): The LTE 800MHz ranges (Vodafone, Deutsche Telekom, O2) and the 1800MHz range for Deutsche Telekom (for iPhone 5) will be detected.
- 5G in DSS mode band n3 (1800MHz uplink range)

mobifinder[®] 5LTE/GSM(2G/4G/5G DSS) detects active mobile phones.

A mobile phone transmits RF signals in the following cases:

- Paging (dialing)
- Talking status
- Establishing standby status (input PIN)
- Finishing standby status
- Changing the assigned base station
- Periodical updates during standby mode.
(e.g. typically after 30 minutes in a German network)



Main application areas

- In prisons
- In military security areas
- In other security areas of concern



Properties and functions

Properties of **mobifinder[®] 5LTE/GSM(2G/4G/5G DSS)**

- **mobifinder[®] 5LTE/GSM(2G/4G/5G DSS)** is able to cover a wide range. Open field tests showed a maximum detection distance of 30 meters. The detection distance in buildings is restricted, especially if the walls consist of ferroconcrete. Typical values in this case are around 10 meters. With the service key the detection trigger level can be set in the range 12...90dB.
- **mobifinder[®] 5LTE/GSM(2G/4G/5G DSS)** analyses the special signal structure of mobile phones. Thus the likelihood of an unwanted alarm being generated by other electronic devices is minimal.
- **mobifinder[®] 5LTE/GSM(2G/4G/5G DSS)** works with a black box recording function. Received signals of up to 200 alarms are successively stored together with time-stamps. This makes it possible to record all mobile phone activities in order to analyze the information at a later date.

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Main functions of *mobifinder*[®]5LTE/GSM(2G/4G/5G DSS)

- *mobifinder*[®]5LTE/GSM(2G/4G/5G DSS) detects phones working in LTE, GSM and 5G DSS modes.
- *mobifinder*[®]5LTE/GSM(2G/4G/5G DSS) **doesn't detect phones working in LTE 2600 MHz mode.**

Using *mobifinder*[®]5 LTE/GSM(2G/4G/5G DSS)

- *mobifinder*[®]5LTE/GSM is small and handy. Users can clip the mobifinder to their clothes.
- A clip fastener has been designed so that it can be worn on the breast pocket or belt.
- Simple menu-driven parameters setting
- LED and LCD indicators are arranged so that signals cannot go unnoticed.
- An acoustic signal with adjustable volume can, if required, be switched off.
- An in-built vibration mechanism enables the alarm to be transmitted silently.
- A 6-digit identification number can be selected by users to identify series of measurements.
- *mobifinder*[®]5LTE/GSM(2G/4G/5G DSS) is battery-powered. Battery life is up to 80 hours (battery type AAA alkaline) using the 'power on' mode. The battery can be changed without loss of data. Battery capacity is shown in three levels.
- Battery life is up to 50 hours (battery type AAA NiMH 1450mAh) using the 'power on' mode.
- *mobifinder*[®]5LTE/GSM(2G/4G/5G DSS) has a black box style recording function. Received signals are successively stored together with a time-stamp. This makes it possible to record all mobile phone activities in order to analyse the information at a later date.

Technical Data

Portable case equipment
Weight: 80g (with batteries)
Dimensions (mm): 61 x 52 x 20
LC-Display
3 buttons for setting and acknowledgement mode
Loudspeaker for acoustic alarm
Red LED for visual signalling
Vibration mechanism for silent alarm