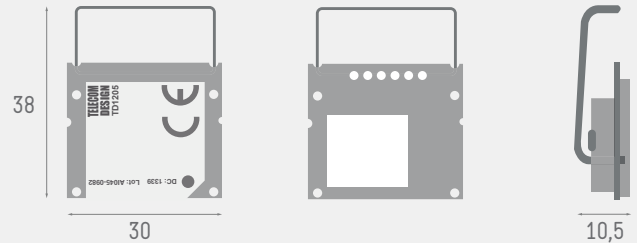
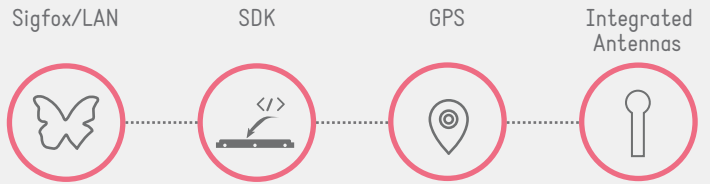


# TD 1205

This high-end module for a faster and easier geolocation!

This high-end module embedded all TD next skills in Sigfox network, GPS & accelerometers sensors and design of antennas.

Just add a battery to your TD1205... and that's all! The world of geolocation awaits you!



## Product description

TD next's TD1205 devices are high performance, low current SIGFOX™ gateways, RF transceiver and GPS receiver with integrated antennas.

The combination of a powerful radio transceiver, a state-of-the-art ARM Cortex M3 baseband processor and a high-efficiency GPS receiver achieves extremely high performance while maintaining ultra-low active and standby current consumption.

The TD1205 device offers an outstanding RF sensitivity of -126 dBm while providing an exceptional power radiated from integrated antenna of up to +14 dBm.

The TD1205 device versatility provides the gateway function from a local Narrow Band ISM network to the long-distance Ultra Narrow Band SIGFOX™ network at no additional cost.

Moreover the fully integrated on-board GPS receiver combines outstanding sensitivity with ultra low power which allows you to achieve excellent accuracy and Time-To-First-Fix performance.

Combining the SIGFOX™ network possibilities with accurate geolocation will give you access to a brand new world of embedded applications.

The TD1205 also embeds an ultra-low power 3D accelerometer with motion and free fall detection to further extend application range.

Featuring an AES encryption engine and a DMA controller, the powerful 32-bit ARM Cortex-M3 baseband processor can implement highly complex and secure protocols in an efficient environmental and very low consumption way. Eventually the integrated antennas for both SIGFOX™ and GPS make the TD1205 a turnkey solution which does not require any additional design.

## Product range

TD1207

1

TD1208

1 2

TD1204

1 2 3

TD1205

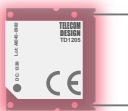
1 2 3 4

4 Integrated antennas

3 GPS + 3D accelerometer

2 SDK

1 Sigfox/LAN



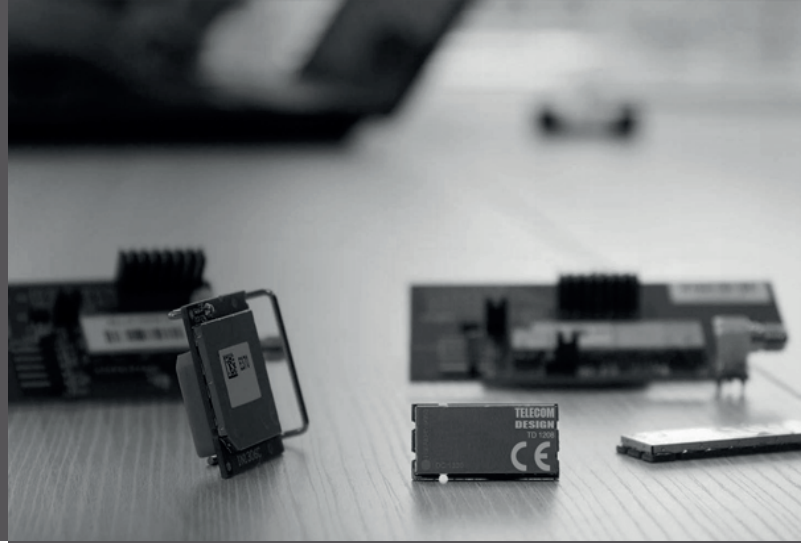
## Sigfox certified Gateway & RF transceiver with antennas

Frequency range = ISM 868 MHz  
Receive sensitivity = -126 dBm

Modulation  
FSK/2FSK

Max output power  
10 dBm

Low active radio power consumption



## Multi-GNSS GPS Receiver with active antenna

Multi-GNSS support

3G

BT/BLE

Ultra-low power consumption

100µW

100µA

High sensitivity

130dBm

100µA

## Board characteristics

100µW

100µA

100µA

## Ultra-low power 3D Accelerometer

100µW

# Pin Assignments

