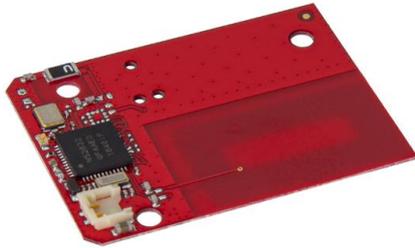# KCS TraceME TM-3000 / SR3
BLE/NFC-tag

The KCS TraceME TM-3000 / SR3 is equipped with BLE and NFC technology targeted for remotely tracking and tracing a variety of objects and for personal identification.

Key Features

- Integrated 2.45GHz. radio for special functions and peripherals.   (*)
  - Short range, up to 30m range, line of sight
- Integrated 13.56MHz NFC for special functions and peripherals.
- Very small, only 35 x 25mm
- Lightweight: 1.3 grams for a fully equipped PCB, excl. battery.
- Standby battery lifespan of more than 15 years.
- 3D accelerometer (up to 16g)

- 2 LED for user interaction.   (*)
- Wide operating range: -30˚C … +85˚C
- Multiple watchdog levels for maximum stability.
- Event based free configurable module to fit any job.
- Remote configurable to fit any job (both firmware and configuration files can be updated over the air).
- Supports integration into third party networks.

(*) Optional, please contact sales for more details.

Applications

- Object protection
- BLE beacon
- Logistics
- Identification

Product Summary

The KCS TraceME TM-3000 is a mid-range BLE/NFC based track and trace module with basic functionality.

With a minimal size of 35 x 25 mm, weight of only 1.3 grams (excl. battery)/10 grams (incl. 550mAh LiPo) and a battery lifespan of more than 15 years, the module offers endless OEM integration possibilities.

The functionality of the module can be remotely programmed to fit any job. From basic/general functionality to advanced/low-level application specific detailed functionality.

All of the necessary server-side scripts to process and store data from these units are available for registered distributors and resellers. If you do not want to host data and maps yourself, you can use the hosting services of one of our partner companies.

(*) Optional, please contact sales for more details.

Ordering information

- TM-3000   Basic version (2.45GHz. RF)
- (*)   Optional, please contact sales for more details.

Enclosure (*)

Depending on the application, different types of enclosures might be required, which can be provided separately.

Battery (*)

Depending on the application, different battery types and capacities might be required, which can be provided separately.

Specifications KCS TraceME TM-3000

Data communication

RF 2.4GHz.	Nordic nRF52832	
Frequency	2.45 GHz.	
Protocol	BLE 4.0 and custom 2.4 GHz. protocol	
Transmitting power	up to +4 dBm	
Sensitivity	-96 dBm (BLE)	

Electrical

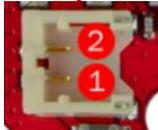| Power supply	Internal non-rechargeable Lithium battery
Typical power consumption	7.5mA BLE transmission
	8uA standby, sensors, timer active, no transmissions

Recommended environmental conditions

Operating Temperature	-30°C to +85°C (OEM)
Humidity	10% to 90%

External Connections
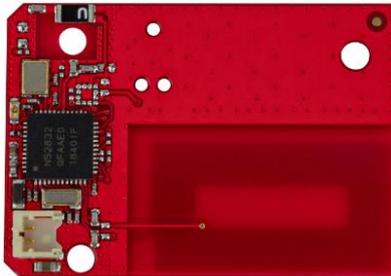
Battery connector

Pin	Description
1	2.5 - 3.6V Battery (+) connection
2	Ground

Onboard sensors

3D accelerometer
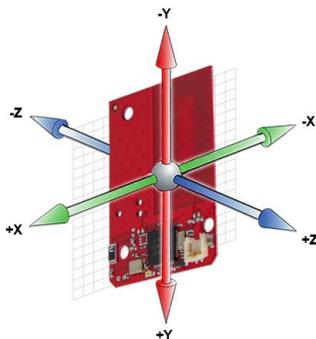
The module contains a 3D accelerometer (up to 16g), which can be used for a variety of custom specific (M2M) applications. Accelerometers are useful for measuring movement, speed, g-forces and vibration of the object. The accelerometer and advanced embedded firmware enables a very low-power battery solution.

About KCS BV

KCS BV, founded in The Netherlands in 1984, develops and manufactures electronics in-house for industrial applications, medical purposes, broad- casting solutions, etc.

KCS is ISO 9001:2015 and ISO 14001:2015 certified.

LoRa Alliance Member™

KCS is a LoRa Alliance member since 2016.

Support

Visit our support page at: www.trace.me

Sales

Contact us by email: Trade@trace.me

Disclaimer

KCS BV reserves the right to make changes without further notice to any products herein to improve reliability, function or design. KCS BV does not assume any liability arising out of the application or use of any product or circuit described herein; neither does it convey any license under its patent rights, nor the rights of others.

©2021 KCS BV
Kuipershaven 22
3311 AL Dordrecht
The Netherlands

email: Trade@trace.me
URL: www.trace.me