

# siotech

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## **PRODUCT DATASHEET** **LOW-COST, BATTERY-POWERED** **TRACKER ON SIGFOX NETWORK**

Size: 105x46x27 mm

Weight: 93 g

TD1205P modul by TELECOM DESIGN

Replaceable battery EL123AP

Operating Temperature Range: -30°C  
to +60°C

Radio Configurations: Zone 1: Europe,  
Oman, South Africa

SIGFOX READY device – Class 0

## **TD1205P MODUL BY TELECOM DESIGN** **High-Performance, Low-Current** **SIGFOXTM Gateway And GPS** **Receiver With Integrated Antennas**

### GENERAL DESCRIPTION

TD1205P Tracker module feature the SIGFOXTM high efficiency Gateway which offer high interference immunity performances on ISM band. It includes GNSS, Accelerometer and Hall-Effect sensors in order to provide a high efficiency tracking solution in 30x28x10.5mm size including antennas.

### BOARD FEATURES

2.3V to 3.6V Power supply

2.8  $\mu$ A Idle state consumption  
30x38x10.5mm size with antenna  
Green and Red LED indications  
KEY SIGFOX MODEM FEATURES  
SIGFOXTM transceiver certified  
145 dB maximum link budget  
(G)FSK, 4(G)FSK, GMSK, OOK modulation  
Receive sensitivity = -126 dBm  
20 $\mu$ A RX (windowed mode)  
50 mA TX @ radiated +16 dBm

### KEY SENSORS FEATURES

GNSS Receiver with active antenna  
Multi-GNSS supported: GPS/ GLONASS  
SBAS augmentation services 12  $\mu$ A  
Backup / 29 mA Acquisition  
56-channels engine with high sensitivity  
-162 dBm Tracking / -148 dBm Cold start  
Ultra-low power 3D Accelerometer  
Up to  $\pm$ 16g full scale  
Ultrasensitive Hall-Effect  
Magnetic field independence  
Operation point down to 20 Gauss  
2.8  $\mu$ A consumption

### APPLICATIONS

SIGFOXTM transceiver (fully certified)  
Geolocation and Tracking  
Universal Timing and

Synchronization  
People and pets geolocation  
Sensor Network

**ENERGIZER 123 (EL123AP)**

RECOMMENDED BATTERY - ENERGIZER  
CR123A

SPECIFICATIONS

Classification: "Lithium"

Chemical System: Lithium /

Manganese Dioxide (Li/MnO<sub>2</sub>)

Designation: ANSI-5018LC, IEC-CR17345

Nominal Voltage: 3.0 Volts

Storage Temp: -40°C to 60°C

(-40°F to 140°F)

Operating Temp: -40°C to 60°C

(-40°F to 140°F)

Typical Capacity: 1500 mAh (to 2.0 volts)

(Rated at 100 ohms at 21°C)

Typical Weight: 16.5 grams (0.58 oz.)

Typical Volume: 7.0 cubic centimeters  
(0.4 cubic inch)

Max Discharge: 1500 mA continuous  
(3500 mA pulse)

Max Rev Current: 2  $\mu$ A

Typical Li Content: 0.55 grams (0.019 oz.)

UL Listed: MH29980