## Package Content



RAK7200 device
(1x)

Micro USB cable
(1x)

## Product Description

The RAK7200 is a GPS tracker with LoRaWAN functionality. It comes with an Li-Ion battery inside the casing, an a convenient rubber belt for quick mounting.

It is built around the low power LoRa module, which integrates an ultra-low power STM32L073 microcontroller and an SX1276 LoRa long range modem. Additionally, there is the Sony CXD5603GF GPS radio on board.

This LoRa node is perfect for IoT applications such as asset tracking, smart vehicle management and location-based services. You need only flash the latest firmware and do a quick configuration setup via the AT commands in order to make it a part of your LoRaWAN network. With the RAK7200 you get a fully functioning GPS tracker, with low power consumption and the great range that LoRa provides.

## Product Features

- Built-in digital output motion sensor LIS3DH, which has dynamic user selectable full scales of ±2g/±4g/±8g/±18g and it is capable of measuring accelerations with output data rates from 1Hz to 5kHz
- Integrated 9-axis sensor - includes a triple-axis gyroscope, a triple-axis accelerometer, and a triple-axis magnetometer.
- LoRaWAN 1.0.2 protocol stack – OTAA and ABP modes.
- LoRa and GPS antennas are integrated inside the casing.
- Low-power mode cycling.
- Micro USB – configuration and battery charging
- LoRa Bands: EU868, US915, AS923, AU915, KR920, IN865.



24.5mm
50mm
74mm

# LoRa Tracker Device
RAK7200

## Key Features:

| | |
|---|---|
| **Computing** | • Low power LoRa module, built-in the ultra low power ARM Cortex-M3 STM32L073 microcontroller |
| **LoRa Module** | • Built-in SX1276 LoRa module |
| **GPS Module** | • Built-in CXD5603GF GPS modem |
| **Sensors** | • LIS3DH: digital output motion sensor<br>• 9-axis sensor: include the triple-axis gyroscope and the triple-axis accelerometer and the triple-axis magnetormeter |
| **Frequency** | • EU868, US915, AS923<br>• AU915, KR920, IN865 |
| **LoRaWAN Version** | • LoRaWAN Version: V1.0.2<br>• Semtech SX1301 Driver Version: V5.0.1<br>• Packet Forwarder Version: V4.0.1 |
| **Activation Way** | • ABP and OTAA |
| **Transmitting** | • 20dBm (Max) |
| **Receiving** | • -130dBm (Min) |
| **Peripheral Interface** | • Micro USB |
| **LED** | • LED1 – indicates the Li-ion Battery is charging.<br>• LED2 – indicates the Li-ion Battery is full charge.<br>• LED3 – indicates the device is sending data. |
| **Antenna** | • Built-in LoRa and GPS Antenna |
| **Power Consumption** | • Normal Mode: Tx@20dB 124mA, Rx:44mA<br>• Sleep Mode: 26uA |
| **Software** | • Support open source code<br>• Enhanced AT commands<br>• Driver support for Windows |
| **Working Environment** | • Outdoor |
| **Physical Dimension** | • Dimension (L x W x H): 74mm x 50mm x 24.5mm<br>• Weight: Approximately 83.7g(2.95oz) |
| **Temperature Range** | • Operation Temperature: -10°C ~ +60°C<br>• Extended Temperature: -10°C ~ +80°C<br>• Storage Temperature: -10°C ~ +80°C |

## Order Information

| Part Number | Package | Description |
|---|---|---|
| RAK7200-03 | 1x RAK7200 device, 1x USB cable | LoRa Tracker device, EU868 |
| RAK7200-04 | 1x RAK7200 device, 1x USB cable | LoRa Tracker device, US915 / AU915 |
| RAK7200-05 | 1x RAK7200 device, 1x USB cable | LoRa Tracker device, KR920 |
| RAK7200-06 | 1x RAK7200 device, 1x USB cable | LoRa Tracker device, AS923 |
| RAK7200-07 | 1x RAK7200 device, 1x USB cable | LoRa Tracker device, IN865 |

**About RAKwireless:**

RAKwireless is the pioneer in providing innovative and diverse cellular and LoRa connectivity solutions for IoT edge devices. It's easy and modular designs can be used in different IoT applications and accelerate time-to-market. For more information, visit RAKwireless website at www.rakwireless.com.