

# USB GPS Receiver with 2m Extension Cable

TEL0138

## Product Overview

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## Description

DFRobot USB GPS Receiver with 2m Extension Cable is an Ublox chip-based GPS receiver module of low power and high sensitivity that can receive 56 channels of satellite signal. This receiver features a built-in receiving antenna and provides accurate and faster-positioning performance. The USB GPS receiver adopts a high-precision positioning chip and industrial-grade manufacturing process so that it can meet the positioning requirements of both industrial-grade and personal use. This GPS receiver has a battery inside for supplying power for storing satellite data, such as satellite signal status, final position, and time that would greatly increase the positioning speed at the module's next boot.



The USB GPS receiver adopts the USB interface, which can be conveniently used in main controllers like Raspberry Pi, NVIDIA, and LattePanda. Applications include vehicle navigation, handheld positioning, wearable devices, and other fields.

## Specifications

- Chip:
  - UBX-G7020-KT
- Frequency:
  - L1, 1575.42MHz/L2,1561.10MHz
  - L3,1602.00MHz
- Baud Rate:
  - 4800,9600,19200,38400,57600,115200bps
- Receiving Channel: 56CH
- Sensitivity:
  - Tracking -162dBm
  - Acquisition: 160dBm
  - Cold start: -148dBm
- Cold Start: 29s average
- Warm Start: 3s average
- Hot Start: 1s average
- Accuracy:
  - Horizontal position accuracy<2.5M
  - SBAS<2.0M
  - Timing accuracy: 30ns
  - Update Rate: 1Hz
  - Outline Dimension: 38×49×16mm
  - USB Length: 2m
  - -40°C~85°C operating temperature range
  - -40°C~85°C storage temperature range

## Applications

- Vehicle navigation
- Handheld positioning
- Wearable devices

## Mouser Part Number

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