

GNSS-RTK Accessory Kit

KIT-18293

Product Overview

09/28/2022

For the most up-to-date information, visit www.mouser.com or the supplier's website.

Description

SparkFun GNSS-RTK Accessory Kit provides the necessary items to start using the RTK board for any project. This kit includes a GNSS multi-band antenna that is designed to receive both the classic L1 GPS band and the newly launched L2 GPS band. The antenna is extremely well built with both a magnetic base with mounting holes for additional anchoring for harsh environments. The GNSS antenna supports GPS, GLONASS, Galileo, and BeiDou and includes a high-performance multi-band RHCP dual-feed patch antenna element, a built-in high-gain LNA with SAW pre-filtering, and a 5m SMA cable.



The GNSS-RTK Accessory Kit also includes a ground plate that increases the performance of GPS and GNSS antennas. This kit also includes a reversible USB-A to USB-C cable that supports USB 2.0 speeds and charging up to 2A. This 0.8m cable provides the flexibility of a thinner cable and the wonderful feel of a reversible USB-C and USB-A connection. This cable has the D+/D- wires alongside large-gauge VBUS/GND wires.

Features

- Antenna:
 - Frequency:
 - L1 Band: 1559MHz to 1606MHz
 - L2/L5 Band: 1197MHz to 1249MHz
 - Peak gain (over 15cm diameter ground plane):
 - L1 Band: 3.5dBic
 - L2/L5 Band: 0 to 2.0dBic
 - Maximum 2 VSWR
 - Minimum 200MHz bandwidth
 - 50Ohm impedance
 - RHCP polarization
 - Supports GPS, GLONASS, Galileo, and BeiDou
 - 5m coaxial cable with SMA connector
 - Magnetic base, fixed installation option (screw mount, 2 x M4 screws)
 - 60mm x 82mm x 22.5mm dimensions
 - Weight: 175g (including cable)

Features

- Ground plate:
 - 4 Inches diameter
 - 1/16" thickness
 - 0.4211lbs weight
 - Center thread: 1/4-20 UNC thread
 - Industrial finish
- USB:
 - Reversible USB-A connector
 - Reversible USB-C connector
 - 0.8m cable length

Kit Contents

- 1x GNSS magnetic mount antenna
- 1x Antenna ground plate
- 1x Reversible USB A to USB C cable

Mouser Part Number

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To learn more, visit <https://www.mouser.com/new/sparkfun/sparkfun-gnss-rtk-accessory-kit/>