

RTK Smart Antenna

Use your smartphone to perform surveying and geodesy jobs with this all-in-one RTK receiver. You can finally buy instead of rent.



More info about the product!



RTK Smart Antenna SKU is: AS-PRO-SMARTANT-0-00

Get a discounted bulk price on this product for orders of 50 units or more. Contact us at info@ardusimple.com to get a quote.

Description

With the ArduSimple RTK Smart Antenna you will have everything you need to start your surveyor tasks with RTK and centimeter level accuracy.
Everything in a waterproof case for those stormy days, battery that lasts the whole day.

If you want to use a different GNSS receiver or add a radiolink, check the [Configurable version](#)

For Android users, use your preferred app and connect to the receiver via USB or Bluetooth.

For iOS users, currently only connection over BLE is possible, and only SW Maps app is supported.

If you use any Windows or Linux device, you can also connect the smart antenna either via USB or Bluetooth.

Good to know:

- Use it as a NTRIP RTK rover, base station or PPK (post-processing)
- Survey grade antenna that guarantees best performance
- You can use Bluetooth or BLE (compatible with Android, iOS, Windows and Linux devices), **they are included in the product**
- Surveying pole is not included (you can purchase it [here](#))
- You can also use a tablet with this kit (find our tablet holder [here](#))
- Smartphone is not included

This product includes:

- Smart Antenna with ZED-F9P RTK receiver, IP65 waterproof, fits all surveyor poles with 5/8" x 11TPI thread
- BT, BLE and WiFi included, no need to add them as plugins (WiFi is currently disabled)
- USB-C cable
- Compact clamp for surveyor pole
- Phone holder
- Thread adapter accessory to fix smart antenna to photography tripod mounts with 1/4" thread
- Screwdriver
- IP67 Waterproof transport case with custom foam to store all above elements inside

Specifications

- GNSS Receiver: dual band (L1+L2) u-blox ZED-F9P
- GNSS Antenna: all band (L1+L2+L5+L6) + L-Band
- Included interfaces: USB, Bluetooth, BLE, WiFi (currently disabled), I2C, Event
- Power supply: USB
- Built-in battery: >12h of use
- IP Rating: IP65 (waterproof)
- Applications: Survey, Mapping, Construction, Farming, 3D Scanning, Geofencing
- Weight of the Smart Antenna: 725g

ZED-F9P features

- Centimeter level precision
 - <1cm with a base station up to 35km
 - <1cm with NTRIP up to 35km
 - <4cm with SSR corrections
 - <1.5m in standalone mode
 - <0.9m standalone with SBAS coverage
- Update rate
 - Default: 1Hz
 - With maximum performance: up to 10Hz
 - With reduced performance: up to 20Hz
- Multi band: L1, L2 and E5b support
- Multifrequency and Multiconstellation:
 - GPS: L1C/A L2C
 - GLONASS: L1OF L2OF
 - Galileo: E1-B/C E5b
 - BeiDou: B1I B2I
 - QZSS: L1C/A L2C
 - SBAS: WAAS, EGNOS, MSAS, GAGAN and SouthPAN
- Start-up times:
 - First position fix: 25 seconds (cold), 2 seconds (hot)
 - First RTK fix: 35 seconds (cold)
- RAW data output in UBX format
- Base and Rover functionality
- Operating temperature Range: -40 to +85degC
- Documentation: RED, RoHS

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