

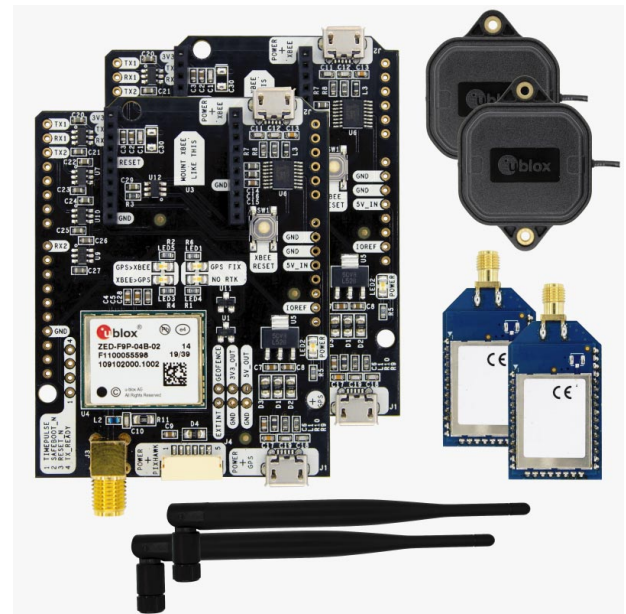
simpleRTK2B - Starter Kit XLR

Includes:

- 1 simpleRTK2B Pro board (ZED-F9P)
- 1 simpleRTK2B Budget F9P board
- 2 u-blox GNSS Multiband antenna ANN-MB-00 (IP67) with cable
- 1 Radio Modules XLR (eXtra Long Range) + 1 x radio antenna
- 1 Radio Module LR (Long Range) + 1 x radio antenna
- Base and Rover preconfiguration



More info about the product!



simpleRTK2B - Starter Kit XLR has several different configurations to provide you with flexibility:

SKU	Variation Name
AS-STARTKIT-XLR-L1L2-NANH-00	North America
AS-STARTKIT-XLR-L1L2-AUNH-00	Australia

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

The simpleRTK2B - Starter Kit XLR (eXtra Long Range) allows simple and fast evaluation of Dual Band GNSS (GPS/Galileo/Glonass/Beidou) RTK technology, based on u-blox ZED-F9P module.

[RTK technology](#) introduces the concept of a "Rover" and a "Base Station". By using a data stream from the base station, the rover can output its relative position with cm level accuracy in clear sky environments.

One of the known problems of Single Band RTK is its convergence time of more than 60 seconds. Dual Band technology reduces this time below 10 seconds, increasing substantially the availability of cm-level accuracy.

The kit includes 2 boards with base and a rover functionality, and radio modules that will let you send RTK corrections up to 50km. If that's too much and you are looking for a more affordable solution, check out our [Starter Kit LR](#).

The kit comes pre-configured, but if you need a custom configuration with special needs, make sure to add in the shopping cart our [Configuration Service](#).

Good to know:

- You can have multiple rovers by using additional [simpleRTK2B boards](#) together with your kit.
- This product is recommended if you want to evaluate u-blox ZED-F9P.
- The included radio modules will let you send RTK corrections up to 50km. This distance will depend on the region of use, subject to local regulations.

Specifications

ZED-F9P features

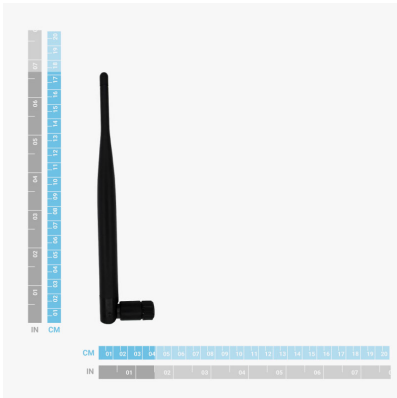
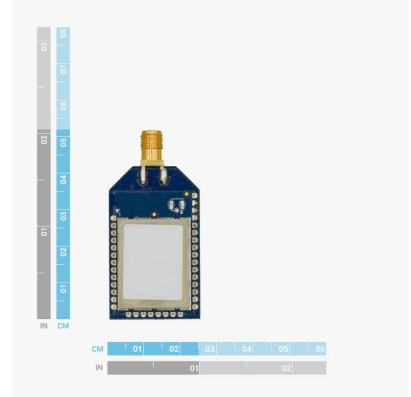
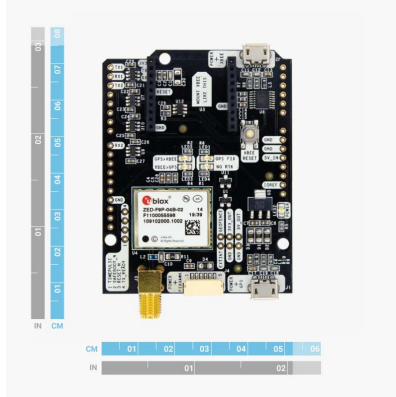
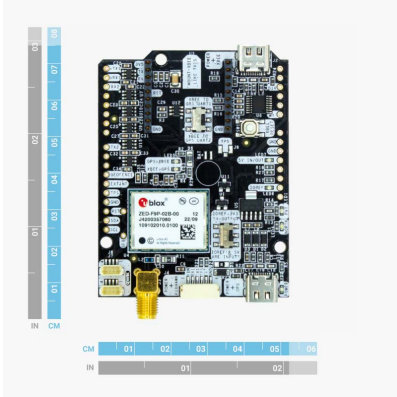
- Centimeter level precision
 - <1cm with a base station up to 35km
 - <1cm with NTRIP up to 35km
 - <4cm with SSR corrections
 - <1.5m in standalone mode
 - <0.9m standalone with SBAS coverage
- Update rate
 - Default: 1Hz
 - With maximum performance: up to 10Hz
 - With reduced performance: up to 20Hz
- 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 +85deg
- Documentation: RED, RoHS

LR radio features

- Communications: Bi-directional Point-to-Point or Unidirectional Point-to-Multipoint (unlimited rovers)
- Antenna type: external passive
- Antenna connector (radio side): SMA female
- Frequency:
 - Europe: 863-870 MHz
 - North America: 902-907 + 915-927 MHz (configurable)
 - Australia: 915-927 MHz
 - New Zealand: 917-927 MHz
- Output power: 20 mW (13 dBm)
- Range in line of sight:
 - Urban: 2.5 km

- Rural: 5 km
- Rural with complete RF line of sight: 10 km
- Operating temperature Range: -40 to +85deg
- Documentation: RED, RoHS, FCC, IC, ACMA, RSM

Image Gallery



Documentation

User Guide	https://www.ardusimple.com/mr-lr-kit-hookup-guide/#unboxing
Antenna Installation Guide	https://www.ardusimple.com/gps-gnss-antenna-installation-guide/
Configuration files	https://www.ardusimple.com/configuration-files/
contact us	https://www.ardusimple.com/contact/?product/18378

simpleRTK2B - Starter Kit XLR includes free basic technical support. Contact info@ardusimple.com for more information.

Data and descriptions in this document are subject to change without notice. Product photos and pictures are for illustration purposes only and may differ from the real product appearance.