

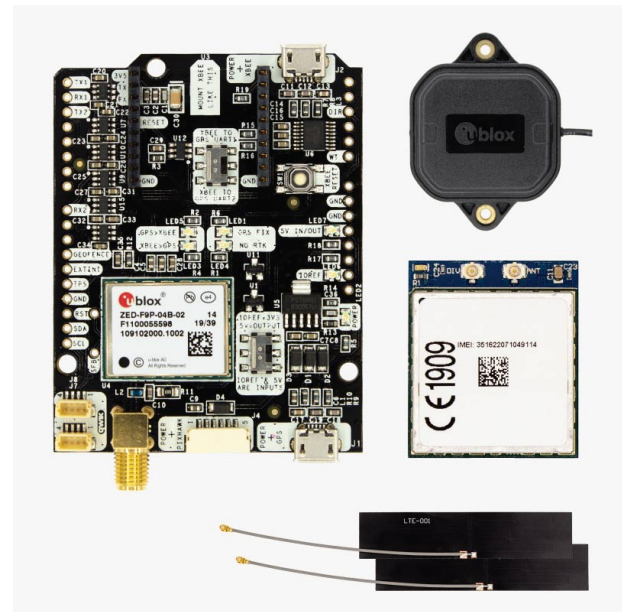
# simpleRTK2B - 4G NTRIP Starter Kit

Includes:

- 1 simpleRTK2B Pro board (ZED-F9P)
- **Free PointPerfect RTK-SSR corrections until 2024**
- 1 u-blox GNSS Multiband antenna ANN-MB-00 (IP67)
- 1 4G NTRIP Master (4G radio module with NTRIP client) including 2 units 4G antennas with integrated cable



More info about the product!



simpleRTK2B - 4G NTRIP Starter Kit has several different configurations to provide you with flexibility:

SKU	Variation Name
AS-STARTKIT-4G-L1L2-EUNH-00	Europe
AS-STARTKIT-4G-L1L2-NANH-00	North America

## Description

If you are looking for a board with ZED-F9P that autonomously connects to a server to download correction data, or automatically pushes its centimeter accurate location to a server, this is your product.

Using the same technology that your mobile phone is using, simply introduce a cellular SIM card into the device, configure it using a configuration tool (no programming involved!), and let the kit do the job for you.

The ArduSimple simpleRTK2B - 4G NTRIP Starter Kit, in any area with cellphone coverage, is able to do autonomously:

- NTRIP Client (to get corrections from your preferred correction service)
- NTRIP Server (to send your base corrections to a NTRIP caster like RTK2go.com)
- TCP socket client (to send position or any other message to your server)
- PointPerfect Client (This product has free RTK-SSR corrections until 31/12/2024. Later if you want you can get a subscription starting at only \$3.90 for 60 hours)

Good to know:

- You will need a SIM card with internet access capabilities to use this product (MicroSIM form factor)
- Compatible with u-blox Thingstream PointPerfect augmentation service
- This product has free corrections until 31/12/2024

AS-STARTKIT-4G-L1L2-EUNH-00 AS-STARTKIT-4G-L1L2-NANH-00

## Specifications

### 4G NTRIP Master features

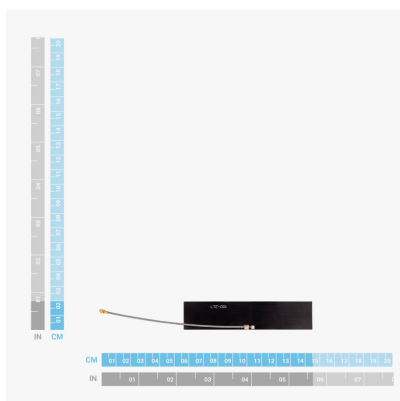
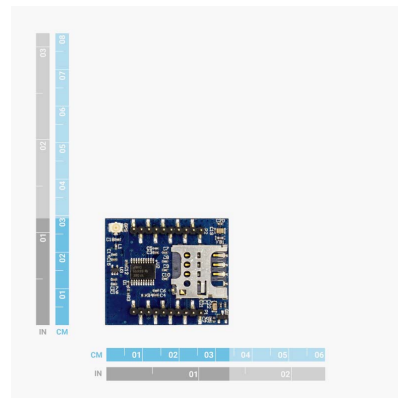
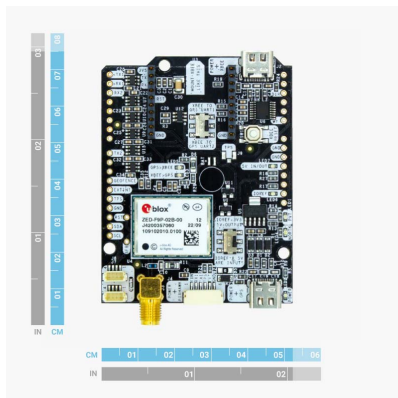
- LTE FDD Cat.4 with dual antenna for Rx Diversity and MIMO
- Compatible with 2G, 3G and 4G networks
- Integrated SIM holder: MicroSIM
- Antenna type: external passive
- Antenna connector (modem side): uFL / IPEX
- Frequency (Europe variant):
  - For Europe, but also Middle East & Asia, compatible with:
  - 4G Bands (MHz): B1(2100), B3(1800), B7(2600), B8(900), B20(800)
  - 3G Bands (MHz): B2(2100), B8(900)
  - 2G Bands (MHz): B3(1800), B8(900)
- Frequency (North America variant):
  - For USA\* & Canada, compatible with 4G and 3G networks.
  - 4G Bands (MHz): B2(1900), B4(1700), B5(850), B12/B13 (700)
  - 3G Bands (MHz): B2(1900), B5(850)
  - \* Only compatible with AT&T, T-Mobile and virtual operators working on these networks. Not compatible by default with Verizon SIM cards, contact us in this case.
- Operating temperature Range: -40 to +85deg
- Documentation: RED, RoHS, FCC, IC, PTCRB

### 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)
- Interfaces **(check user guide to verify which are available)**:
  - USB
  - UART
  - XBee
  - Timepulse
  - Event
  - Safeboot
- RAW data output in UBX format
- Base and Rover functionality
- Operating temperature Range: -40 to +85deg
- Documentation: RED, RoHS

## Image Gallery



## Documentation

simpleRTK2B - 4G NTRIP  
Starter Kit User Guide

<https://www.ardusimple.com/4g-ntrip-client-hookup-guide/#overview>

Configuration files

<https://www.ardusimple.com/configuration-files/>

3D CAD STEP Files

<https://www.ardusimple.com/3d-cad-step-files/>

simpleRTK2B - 4G NTRIP Starter Kit includes free basic technical support. Contact [info@ardusimple.com](mailto: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.