

simpleRTK2B Pro

Includes:

- 1 simpleRTK2B Pro board



More info about the product!



simpleRTK2B Pro has several different configurations to provide you with flexibility:

SKU	Variation Name
AS-RTK2B-PROF9P-L1L2-NH-00	Without headers / ZED-F9P
AS-RTK2B-PROF9P-L1L2-HS-00	Headers soldered (+26€) / ZED-F9P



Description

simpleRTK2B Pro is a standalone board that allows to evaluate dual band RTK GNSS technology. It's based on u-blox ZED-F9 module and is fully compatible with Arduino and STM32 Nucleo platforms, as a shield.

The new Pro version is the latest generation supercharged with new features:

- High power XBee Socket to connect high power devices, like 4G NTRIP Client and XLR at 1W output power.
- Selectable UART1 / UART2 connection to the XBee socket, to be able to send UBX protocol over the air.
- Compatible with Sparkfun qwiic interface and I2C interface.
- Dual USB-C connector
- "NO RTK" LED in red color
- "GPS FIX" LED in green color
- EXTINT and TIMEPULSE available on the JST connector

Check out simpleRTK2B page and hookup guide to learn more.

Good to know:

- This product is compatible but doesn't include multiband GNSS antenna, which is necessary to use the product.
- The module will not give good performance with a standard GNSS antenna, requires a multiband one.
- This product is compatible but doesn't include radio, which is necessary to connect to another base.
- This board is recommended if you want to test u-blox ZED-F9P performance.
- This board has the option of mounting a backup battery to speed up the Time to First Fix after a short power down. Note that this will not speed up the Time to First RTK fix, fresh satellite data is needed for that. If you want the board with the onboard V_BCKP battery mounted you can add the Hand Soldering Service to your cart.



Specifications

ZED-F9P features

- Centimeter level precision
 - <1cm with a base station up to 35km</p>
 - <1cm with NTRIP up to 35km</p>
 - <4cm with SSR corrections</p>
 - <1.5m in standalone mode</p>
 - <0.9m standalone with SBAS coverage
- Update rate
 - o Default: 1Hz
 - With maximum performance: up to 10Hz
 - With reduced performance: up to 20Hz
- Multi band: L1, L2 and E5b support
- Multifrequency and Multiconstellation:
 - o GPS: L1C/A L2C
 - o GLONASS: L10F L20F
 - o Galileo: E1-B/C E5b
 - o BeiDou: B1I B2I
 - o 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 product documentation to verify which are available):
 - o USB
 - UART
 - o XBee
 - o Timepulse
 - o Event
 - Safeboot
- RAW data output in UBX format
- Base and Rover functionality
- Operating temperature Range: -40 to +85deg
- Documentation: RED, RoHS



Image Gallery

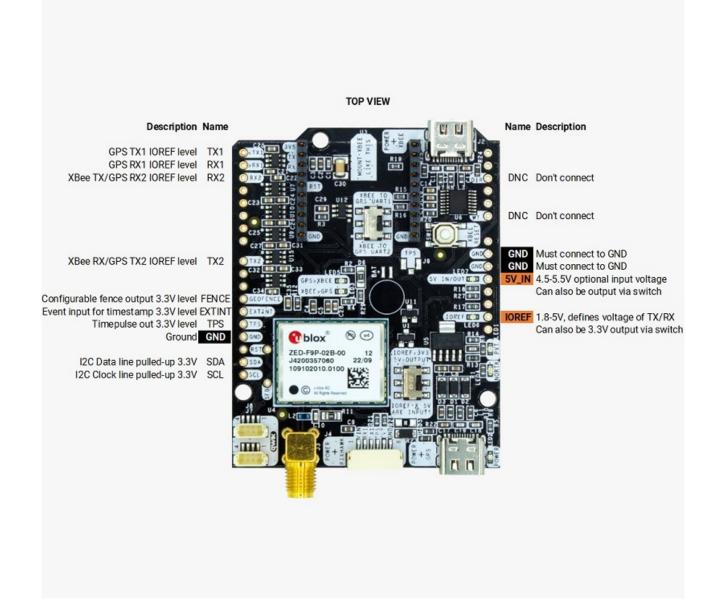








Pinout





Documentation

simpleRTK2B Pro User Guide https://www.ardusimple.com/simplertk2b-pro-hookup-

guide/

Configuration files https://www.ardusimple.com/configuration-files/

EU Conformity & RoHS

Certificates

https://www.ardusimple.com/eu-conformity-certificates/

3D CAD STEP Files https://www.ardusimple.com/3d-cad-step-files/

simpleRTK2B Pro 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.