

simpleRTK2B Pro

Includes:

- 1 simpleRTK2B Pro board (ZED-F9P)



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

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

simpleRTK2B Pro is a standalone board that allows to evaluate dual band RTK GNSS technology including centimeter level accurate position.

It's powered by u-blox ZED-F9P module and can be used standalone, or connected with Arduino, Ardupilot / Pixhawk (JST connector), Raspberry Pi, Nvidia Jetson and STM32 Nucleo platforms, as a shield. It can provide up to 10 RTK positions every second.

This board is ideal to start developing your own product with RTK inside. More details are available in the Specifications and Documentation tabs.

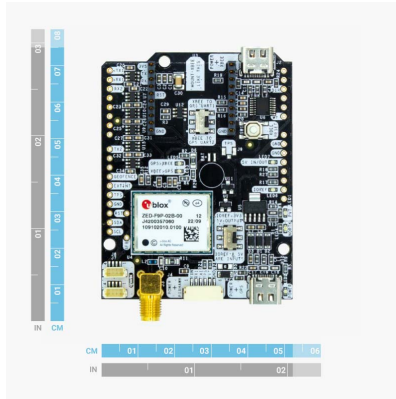
Compared to the Budget board, the new Pro version is the latest generation supercharged with new features:

- 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

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 can be used as Base or Rover
- This board is recommended if you want to test u-blox ZED-F9P performance.
- The onboard XBee socket can be used to expand functionality with Plugin accessories (MR/LR/XLR radios, Bluetooth, WiFi, Ethernet, Dataloggers, RS232, Canbus, L-Band, 4G/3G/2G).
- You can use the Shield for Second Plugin socket to connect 2 plugins at the same time.
- Compatible with ArduSimple plastic case
- 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.

Image Gallery



Pinout

TOP VIEW

Description	Name	Name	Description
GPS TX1 IOREF level	TX1	DNC	Don't connect
GPS RX1 IOREF level	RX1	DNC	Don't connect
XBee TX/GPS RX2 IOREF level	RX2		
XBee RX/GPS TX2 IOREF level	TX2	GND	Must connect to GND
Configurable fence output 3.3V level	FENCE	GND	Must connect to GND
Event input for timestamp 3.3V level	EXTINT	5V_IN	4.5-5.5V optional input voltage Can also be output via switch
Timepulse out 3.3V level	TPS	IOREF	1.8-5V, defines voltage of TX/RX Can also be 3.3V output via switch
Ground	GND		
I2C Data line pulled-up 3.3V	SDA		
I2C Clock line pulled-up 3.3V	SCL		

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.