

# simpleRTK2B Micro

Includes:

- 1 simpleRTK2B Micro board



More info about the product!



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

SKU	Variation Name
AS-RTK2B-MICRO-F9P-L1L2SMATH-00	ZED-F9P / SMA / Through hole
AS-RTK2B-MICRO-F9P-L1L2UFLSMD-00	ZED-F9P / uFL / Surface mount
AS-RTK2B-MICRO-F9P-L1L2UFLTH-00	ZED-F9P / uFL / Through hole
AS-RTK2B-MICRO-F9R-L1L2SMATH-00	ZED-F9R / SMA / Through hole
AS-RTK2B-MICRO-F9R-L1L2UFLSMD-00	ZED-F9R / uFL / Surface mount
AS-RTK2B-MICRO-F9R-L1L2UFLTH-00	ZED-F9R / uFL / Through hole

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

## Description

Let simpleRTK2B Micro accelerate your RTK project thanks to its easy to integrate footprint, integrated RF connector & high availability. With u-blox ZED-F9P and ZED-F9R products. We take care of the RF design and complex module integration so you can focus on your PCB design and the application.

- Smallest Form Factor
- Many ZED-F9P pins available
- Re-usable: if you do a new PCB you can un-mount from your previous version the expensive GPS!
- Smaller PCB area needed: you can use the space below the module to place other components!
- Easy to solder by hand or machine
- No RF knowledge required, because all RF components are already inside: simply uFL for pigtail connection or long SMA for direct panel mount
- Bulk pricing starting 50 units

## Specifications

### ZED-F9P features

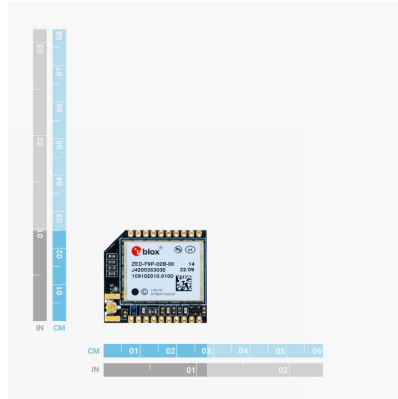
- Centimeter level precision
  - <1cm with a base station up to 35km
  - <1cm with NTRIP up to 35km
  - <4cm with SSR corrections
  - <1.5m in standalone mode
  - <0.9m standalone with SBAS coverage
- Update rate
  - Default: 1Hz
  - With maximum performance: up to 10Hz
  - With reduced performance: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

### ZED-F9R 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
  - Maximum GNSS update rate: 4Hz
  - Maximum fusion update rate: 30Hz
- 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)
- Dynamic models: ground vehicle, slow-moving service robots and electric scooters (drones, boats and pedestrians not supported)
- RAW data output in UBX format
- No Base Station function, only RTK Rover
- Operating temperature Range: -40 to +85deg
- Documentation: RED, RoHS

## Image Gallery



## Pinout

TOP VIEW

Description	Name	#	#	Name	Description
3.3-3.6V 200mA max	<b>VCC</b>	1	20	N/C	
Data out VCC level	TX1	2	19	EXTINT	EXTINT INPUT VCC level
Data in VCC level	RX1	3	18	RTKFIX	RTK FIX output VCC level
	N/C	4	17	I2C_SDA	I2C Data VCC level
Leave open for always ON	RESET	5	16	RX2	Data in VCC level
5V to enable USB	V_USB	6	15	N/C	
	USB+	7	14	<b>V_BKCP</b>	V_BCKP
	USB-	8	13	TPS	Timepulse output VCC level
I2C Clock VCC level	I2C_SCL	9	12	TX2	Data out VCC level
Must connect to GND	<b>GND</b>	10	11	<b>GND</b>	Must connect to GND



## Documentation

User Guide	<a href="https://www.ardusimple.com/user-guide-simplertk2b-micro/">https://www.ardusimple.com/user-guide-simplertk2b-micro/</a>
Configuration files	<a href="https://www.ardusimple.com/configuration-files/">https://www.ardusimple.com/configuration-files/</a>
Download	#
Footprint	<a href="https://www.snapeda.com/search/?q=ardusimple">https://www.snapeda.com/search/?q=ardusimple</a>

simpleRTK2B Micro includes free basic technical support. Contact [info@ardusimple.com](mailto:info@ardusimple.com) for more information.

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