

simpleRTK2B mPCIe

Includes:

- 1 simpleRTK2B-mPCIe board with u-blox ZED-F9



More info about the product!



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

SKU	Variation Name
AS-RTK2B-MPCIE-L1L2-F9P-01	ZED-F9P
AS-RTK2B-MPCIE-L1L2-F9R-01	ZED-F9R
AS-RTK2B-MPCIE-L1L2-F9T-01	ZED-F9T

Description

Bring low cost high precision RTK GNSS positioning to your Mini PCI Express platforms thanks to ZED-F9 and this board fully compatible with MiniPCIe half-size and full-size sockets.

Good to know:

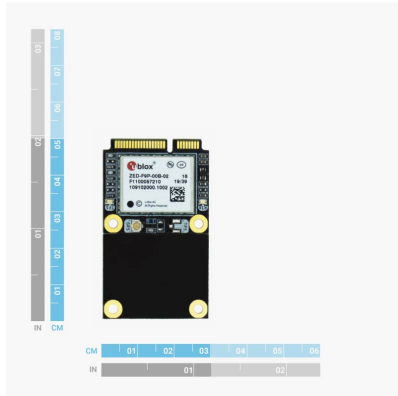
- The board by default is compatible with full size Mini PCI Express sockets, and it's pre-cut so you can convert it yourself to Half Size Mini PCI Express size.
- You will need a uFL to SMA pigtail to connect it to our Multiband GPS/GNSS antennas.
- ZED-F9T variant has an extra uFL connector for timepulse output.
- 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)
- 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



Pinout

Description	Function	Pin	Function	Description
	VIN_3V3	2	1	
		4	3	
		6	5	
		8	7	
		10	9	GND
		12	11	
		14	13	
		16	15	GND
		18	17	
Feature disabled	W_DISABLE	20	19	
Feature disabled	RESET	22	21	GND
	VIN_3V3	24	23	
		26	25	
		28	27	GND
		30	29	GND
		32	31	
		34	33	
	USB_DN	36	35	GND
	USB_DP	38	37	GND
		40	39	VIN_3V3
		42	41	VIN_3V3
		44	43	GND
		46	45	
		48	47	
		50	49	
	VIN_3V3	52	51	

Documentation

Configuration files	https://www.ardusimple.com/configuration-files/
3D CAD STEP Files	https://www.ardusimple.com/3d-cad-step-files/
PCB Integration Guide	https://www.ardusimple.com/pcb-integration-guides/
Footprint	https://www.snapeda.com/search/?q=ardusimple

simpleRTK2B mPCIe includes free basic technical support. Contact info@ardusimple.com for more information.

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