simpleRTK2B-mPCIe

Mini PCI Express Card for multiband GNSS technology including RTK functionality

SKU: AS-RTK2B-MPCIE-L1L2-F9P-01

Dimensions:
Full-size: 30x51 mm
Half-size:30x27 mm

Key features

- Centimeter level precision
  - <1cm with a base station up to 35km
  - <1cm with NTRIP up to 35km
  - <4cm with SSR corrections (PPP-RTK)
  - <1.5m in standalone mode
  - <0.9m standalone with SBAS coverage
- Based on u-blox ZED-F9P module
- Fully compatible with half-size and full-size mPCIe sockets
- Configuration flexibility: standalone, standalone with NTRIP, base-rover, base-multi rover, RTK moving base
- RAW GNSS measurements

Mechanical

- Only 5g
- Full-size and Half-size mPCIe in one part
- Convert from full-size to half-size yourself

Electrical

- Power consumption: 100mA @ 3.3V
- Active antenna power supply at 3V up to 75mA
- Interfaces: USB
- Timepulse & RTK Status LEDs
- Multi constellation
  - GPS: L1C/A L2C
  - GLONASS: L1OF L2OF
  - Galileo: E1-B/C E5b
  - BeiDou: B1I B2I

Pinout

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

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