



R71

R71 integrated BeiDou/GNSS receiver has built-in dualantenna BeiDou/GNSS high-precision board, radio communication module, inertial navigation combined module, 4G module, etc. It is suitable for many application scenarios such as precision agriculture, construction machinery, and intelligent driving.



Technical Features

- High precision and low power consumption, using Beidou, GPS, GLONASS, Galileo, QZSS and other systems to ensure positioning accuracy in a variety of complex environments;
- Compatible with a variety of Beidou/GNSS high-precision positioning and orientation boards, which can realize single Beidou solution;
- Built-in wireless communication module, various communication protocols, such as transparent transmission, TRIMTALK protocol, etc., are seamlessly compatible with GNSS radios of various manufacturers:
- Wide voltage power supply, voltage range 6 ~ 36 V DC, with positive and negative polarity reverse protection;
- · Support remote system upgrade operation to reduce user maintenance costs;
- Integrated design, easy installation, standard IP67 waterproof and dustproof design;
- · Integrated inertial navigation module to ensure accuracy in all terrains;
- · Adopt professional DEUTSCH communication interface.

Technical Parameter

MODEL	R71		
Signal tracking	BDS	B1I, B2I, B3I	
orginal tracking	GPS	L1C/A, L2P (Y)/L2C, L5	
	GLONASS	L1, L2	, 10
	Galileo	E1, E5a, E5b	
	QZSS	L1, L2, L5	
	Cold start time	< 30 s	
	Initialization time	< 5 s (typ.)	
	RTK initialization reliability	> 99.9 %	
	Recapture	< 1 s	
Accuracy Index	Single point positioning	Plane	1. 5m
Accuracy index	Single point positioning	Elevation	2. 5m
	RTK Accuracy	Flat	\pm (8 + 1.0 × 10-6 ×D) mm Note 1
	KTK Accuracy	Elevation	±(15 + 1.0 × 10-6 × D) mm
	Speed accuracy	0.03m/s	I(13 · 1.0 ^ 10-0 ^ D) IIIII
	G NSS heading accuracy		acolino distanco in motors
	G NSS roll or pitch accuracy	(0.2/R)°, R is the baseline distance, in meters (0.4/R)°, R is the baseline distance in meters	
	Gyro GNSS Fusion Heading Accuracy		
	Angular velocity measurement range ± 400 °/s		
	Acceleration range	± 8q	
	Data update rate	1 ~ 100Hz	
Electrical parameters	Power consumption	≤ 6.0W	
Licetrical parameters	Supply voltage	6 to 36 V DC	
physical properties	Working temperature	-45 °C ~ +75 °C	
priyologi properties	Storage temperature	-55 °C ~ +85 °C	
	Size	195.9mm×84mm	
	Indicator light	1 power light, 1 differential signal light, 1 satellite light	
	Protection class	IP6 7	oreman enginer nighte, i eacemies nighte
	Shock and Vibration	2m drop resistance	
	Weight	1.05Kg	
Data interface	Data output	NMEA-0183, binary code	
	Data refresh rate	1 ~ 20Hz optional	
	Baud rate	9600 ~ 406800	
	Deutsch connector		upply, 1 USB , 2 RS232 , 1 CAN
	Differential format	RTCM3.X	, ==,==:
	Communication		dule, UHF radio communication module
	Data link antenna	1	
	GNSS antenna interface	1	

Note: The above information is for reference only and may be varied at delivery. For the latest data, please contact us.

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