

Pajamas-940U GNSS receiver



► Product introduction



PJ The 1940U is a receiver with a high-precision module and a 4-star multi-frequency antenna. The receiver features high precision RTK positioning at the centimeter level, high antenna gain, miniaturization, high sensitivity, multi-system compatibility, and high reliability. It comes with a wireless data transmission module that allows GPS data to be transmitted wirelessly. It can effectively meet the needs of users.

1. The built-in wireless data transmission module (or called radio) has its own data transmission module antenna, which transmits GPS data through wireless transmission, and allows the other side to wirelessly transmit GPS data through wireless data transmission module. You can receive it.
2. Built-in high-precision RTK cm level positioning module, built-in GNSS 4-star multi-frequency antenna;
3. The multi-feed point design and perfectly symmetrical antenna structure are adopted, with a very stable phase center, reducing measurement errors in antenna pairs.
4. It has a clear effect on high gain, low standing wave ratio, low altitude signal reCEption, allowing stars to

be received normally even in severe shielding.

5. Equipped with anti-multipath choke plates with anti-surge design, effectively suppress strong out-of-band interference signals, ensuring antenna reliability.

Designed with UV resistant PC material, it is beautiful and does not discolor the antenna casing even after long-term use outdoors. It has IP67 waterproof grade, high temperature resistance, sun protection and UV protection.

► application area

This receiver can receive GPS L1/L2 Glonass L1/L2 BDS B1/B2 GALILEO E1/E5b frequencies and supports RTK differential positioning to reach centimeter levels. To meet the needs of Current GNSS measuring devices for multi-system compatibility and high-precision users are widely used in the fields of geodesics, channel mapping, precision agriculture and marine surveying, and can also be selected and applied in military fields depending on application conditions. It can also be done..

► technical specification

Module specification

electricity Features	frequency	GPS L1/L2, GLONASS G1/G2, BDS B1/B2, GALILEO E1/E5b, Quasi-Zenith Satellite L1/L2
	Received format	GPS, Gronus, BDS, Galileo, Quasi-zenith satellite. Defaults GPS, Gronus, BDS, Galileo, Quasi-zenith satellite.
	channel	184 Searching channel
sensitivity	Tracking	- 167dB meter
	Re-retrieved	- 160dB1
	cold start	- 148dB meter
	hot start	- 157dB1
	RTK Horizontal Accuracy	RTK m 1 ppm CEP
	RTK vertical Accuracy	RTK m 1 ppm CEP
	Horizontal Accuracy	1.5m CEP
	vertical Accuracy	1.5m CEP
	speed	0.05m/sec
	Heading Accuracy	0.4 Degree , when of Antenna Baseline length 1 meter
Accuracy	dynamic Heading Accuracy	0.3 Degree
		RMS 30ns
	1PPS timing	99% 60ns
	cold start	24 seconds
Get time	warm start	2 seconds
	hot start	1 second
convergence time	convergence time	≤10 seconds

Data output	Support rate	4800 bps to 921600 bps, automatic adaptive baud rate
	Data Level	USB level
	Data Protocol	NMEA-0183, UBX, RTCM. Default NMEA-0183
	NMEA Message	RMC, VTG, GGA, GSA, GSV, GLL
	Update rate	0.25Hz to 20Hz, default is 1Hz
	flash	4M Flash, Persistently save configuration
	1PPS	Can be set from 0.25 Hz to 10 MHz, default cycle lasts for 1 second and high levels for 100 ns
	RAWX	Supports multi-GNSS raw measurement data output
	Altitude	Up to 50,000m
	speed	Up to 515m/sec
Operational Limitations	acceleration	Less than 4g
Operating frequency		430-462MHZ
Transmission distance		2km(9600bps)
Transmitter level		TTL
Reception level		TTL
Baud rate for wireless communications at transmitters		38400bps
Baud rate for wireless communication at receiver		38400bps
Baud rate for cable transmission at the transmitter		38400bps
Receiver wired transmission baud rate		38400bp



Antenna size (mm)	Φ160×66.5
Weight (g)	≤650

Operating temperature (°C)	-40 to 70
Storage temperature (°C)	-55 to 85
Waterproof grade	IP67

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