

GNSS RTK Receiver for UAV

• JEBSEE •

NPA111



GNSS RTK Receiver L1/L5

Features

- **Advanced Multi-Frequency GNSS Support**
When combined with the ANI523, our device supports GPS, GLONASS, Galileo, and BeiDou systems across L1 and L5 frequencies. This ensures unparalleled precision and reliability in your positioning data.
- **Superior Anti-Interference Performance**
Our optimized circuitry and robust low-noise amplifier actively suppress out-of-band and electromagnetic interference. This guarantees signal purity and stable performance in complex environments.
- **Rapid Startup and Easy Integration**
Get to work faster with plug-and-play functionality.
- **Flexible Mounting Options**
Designed for convenience, the device offers multiple mounting choices, including bracket mounting or direct mounting on a drone, for easy integration into your existing setup.

Application

- **High-Precision UAV Positioning and Navigation**
Our product is engineered to deliver high-precision, high-reliability positioning for UAVs. It's perfectly suited for professional tasks like aerial photography, remote sensing, and infrastructure inspection.
- **Professional Mapping and Surveying**
Ideal for professionals who demand accuracy, it meets the needs of topographic surveys, cadastral surveys, engineering measurements, and other geospatial data acquisition tasks.



Item	Model No.	NPA111
Standard		GNSS RTK Receiver L1/L5
Positioning Accuracy ⁽¹⁾		RTK Fix 0.01 m + 1 ppm CEP
Time-to-First Fix	Sec	Cold start: 30 (typ.) Hot start: 2 (typ.)
Data and Update Rate	Hz	RAW: 20 (Max.) RTK: 8 (Max.)
Baud rate		115200 5Hz (default) can be set
Working voltage	V	4.75 ~ 5.25
Current Consumption	mA	100 max. @ 3.0 – 5.5 VDC
Cable Assembly		30cm with GH1.25 (10-pin/6-pin) Connector (Custom lengths and connectors available)
		Mechanical
Mounting		Screw Mount
IP Rating		IP67
Dimensions	mm	Ø 91 x 15

(1)定位精準度：Open sky, dual band, demonstrated with a good external LNA, CEP 24hr static.