

J-50 GNSS Receiver



- Professional GNSS satellites tracked simultaneously (GPS, Glonass, Galileo, Beidou).
- Cutting-edge MEMS tilt sensor technology is adopted, supporting fast initialization, dynamic tilt survey up to 60°.
- Applies WIFI connection to realize WebUI control designed to modify settings and monitor the receiver status.
- Bundled Android field software brings a big change in user experience and accessibility.

J-50 GNSS Receiver Specifications

GNSS Engine

Satellite Tracking	GPS: L1C/A L1C L2P(Y) L2C L5 GLONASS: G1 G2 G3 BDS: B1I B2I B3I B1C B2a B2b Galileo: E1 E5a E5b E6 QZSS: L1C/A, L1C, L2C, L5 NavIC: L5 SBAS B2b PPP E6
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Channel	1408
Signal reacquisition	<1 second
Cold start	<30 second
Warm start	<20 second
Hot start	<5 second
RTK Signal initialization	<5 second
Initialization reliability	>99.9%
Update rate	Supports max. 20Hz output

RTK	H: 8 mm+ 1 ppm (RMS) V: 15 mm+ 1 ppm (RMS)
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Static	H: 3.0 mm+ 0.1 ppm (RMS) V: 3.5 mm+ 0.4 ppm (RMS)
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Single Point	H: 1.5 m (RMS) V: 2.5 m (RMS)
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Code differential	H: 0.25 m (RMS) V: 0.5 m (RMS)
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L Band	H: <0.1 m (RMS) V: <0.15 m (RMS)
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Correction data	RTCM 2.X, 3.X, CMR, CMR+
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Power Supply

Battery	Built-in battery, 3.6V 13400mAh 48.2Wh, PD quick charge supported
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Input	Type C, PD Charging
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Working time	12 hours
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Physical

Dimension	Φ134mm x H74mm
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Weight	About 0.9kg
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Operating temperature	-30°C ~ + 65°C
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Storage temperature	-40°C ~ + 80°C
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Water/dustproof	IP68
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Shock & Vibration	MIL-STD-810H
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RTK	2 m pole drop resistant in normal temperature, and survive from 1.2m free drop (hardwood floor)
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Indicator	Satellites, datalink, battery
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Button	Power button, short press to broadcast current working mode and status
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System

Operation system	Linux
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Internal memory	8GB
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Bluetooth	BT5.1, EDR backward compatible, BLE
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Wi-Fi	802.11 b/g/n
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Network	Nano SIM card, LTE FDD: B1/B2/B3/B4/B5/B7/B8/ B12/B13/B18/B19/B20/B25/B26/B28 LTE TDD: B38/B39/B40/B41 UMTS: B1/B2/B4/B5/B6/B8/B19 GSM: B2/B3/B5/B8
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Radio	TX and RX, 1 watt TX power, 410MHz-470MHz frequency range
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TNC	Connect internal radio with antenna
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Type-C port	Charge and data transmission
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Illustrations, descriptions and technical specifications are not binding and may change



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Janak Positioning and Surveying Systems Pvt. Ltd.

Head Office: 304-B, Pal Mohan Plaza, D.B. Gupta Road, Karol Bagh, New Delhi

Branch office: B-28, Sector-4, Noida

Tel : 1800116009

Ph No: +91 9811008317

Email: janak.ji@yahoo.com

