



-our clients are our pride



The J-20 GNSS Receiver is JANAK's all-new multi-GNSS, multifrequency smartantenna. The J-20 provides robust performance and high precision in a compact, rugged package with IMU compensation ability. With multiple wireless communication ports and an open GNSS interface, the J-20 can be used in a variety of operating modes.

Use the J-20 as a precise network rover to work with your GNSS VRS network, or set up your J-20 as an easy-to-use base-rover package with industry-leading performance via the internal longrange and spread-spectrum radio or cellularcommunication via JANAK's **Janak Live_Sync** Internet connection, you can enjoy a simple, easy-to-use base-rover solution that can also support a single base with multiple simultaneous roverconnections. The J-20 provides state-of-the-art RTK performance when receiving corrections from a static base station or network RTK correction system. With multiple connectivity options, the J-20 allows for RTK corrections to be received over the radio,cell modem, Wi-Fi, Bluetooth, or serial connection. The J-20 delivers centimeterlevel accuracy with virtually instantaneousinitialization times and cutting-edge robustness in challengingenvironments.

The built-in web user interface (WebUI) can be used to monitor and control the receiver status and operation, as well as upgrade the J-20 with new firmware and activations. The J-20 is immune from magnetic interference.

KEY FEATURES

Multi-frequency GPS, IRNSS L5, GLONASS, BeiDou, Galileo, QZSS, and L-band.

Long-range RTK baselines up to 50 km with fast acquisitiontimes with the use of Listen-Listen ***

UHF (410 MHz & 470 MHz), cellular, Bluetooth, and Wi-Fiwireless communication

Internal tilt (IMU) sensor corrects



Technical Specifications

Receiver Type:

Multi-Frequency All-in-View GNSS Receiver Satellite Tracking-GPS-L1CA/L1P/L1C/L2P/L2C/L5 GLONASS-G1/G2/G3, P1/P2 BeiDou-B1i/B2i/B3i/B10C/B2A/B2B/ACEBOC GALILEO- E1BC/E5a/E5b/E6BC/ALTBOC QZSS- L1CA/L2C/L5/L1C/LEX IRNSS-L5 L Band. SBAS (WAAS, EGNOS, MSAS, GAGAN) **Channels:** 555(optional 800) **RTK Formats:** RTCM2.1, RTCM2.3, RTCM3.0, RTCM3.1, RTCM3.2 including MSM, CMR, CMR+ **Recording intervals:** Selectable from 1, 2, 4, 5, 10 Hz (20 Hz or 50 Hz optional) Accuracy Autonomous Hz1.2 m Vz 2.4m Hz 0.25 m Vz 0.5m **SBAS Network RTK Hz** 8 mm + 0.5ppm **Vz** 15 mm + 0.5 ppm RTK **Hz** 8 mm + 1.0 ppm **Vz** 15 mm + 1.0 ppm Static Hz 3.0 mm +0.1ppm

Vz 3.4 mm + 0.4 ppm

Imu Tilt Compensation ±30° Initialization Time: < 8s

Communications

Bluetooth: Bluetooth 2.1 + EDR / 4.0 LE Wi-Fi: 802.11 b/g Network: 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 Radio: Frequency range: 410MHz – 470MHz Protocol: TrimTalk 450S, PCC EOT, TrimMark 111(19200)



MICRO, SMALL & MEDIUM ENTERPRISES सूक्ष्म, लघु एवं मध्यम उद्यम

Connector Ports

TNC: For connecting to a UHF radio antenna LEMO 5-pin: For connecting to the external power supply, external radio LEMO 7-pin: For serial port, USB Card Slots: Micro SIM card and Micro SD card

Data & Storage

Storage Type: 8 GB internal, SD card up to 32 GB

Physical

Weight: 1.12 kg (1 battery), 1.25 kg (2 batteries) Dimensions: 156 x 76 mm

Environmental

Operating Temperature: -30°C ~ +65°C **Storage Temperature:** -40°C ~ +80°C **Protection:** IP67. Protected from temporary immersion to a depth of 1 m **Shock Resistance:** MIL-STD-81 0G, method 516.6. Designed to survive a 2 m pole drop on the concrete floor. **Humidity:** Up to 100% **Vibration:** MIL-STD-810G, method 514.6E-I

Electrical

Input Voltage: 9 to 28 V DC Battery: With removable dual battery, for single battery parameter: 7.2 V, 3400 mah, 24.48 Wh Working Time: Up to 12 hours

User interface LEDs: Power, Satellite, Data Link, Bluetooth

Janak Positioning & Surveying Systems P Ltd 304-B, Pal Mohan Plaza, 11/56, D B Gupta Road, Karol Bagh, New Delhi-110005 www.janaksurvey.com janak.ji@yahoo.com Call 1800-11-6009/ 9811008317

Factory- B28, Sector-04, Noida