





More channels and all constellations tracking

With 1598 GNSS channels solution, J1 can support multi-constellation and multi-frequency tracking with the help of high-performance GNSS antenna.

More powerful inbuilt radio

Coupling a high-performance UHF module with Farlink communication technology, which increases signal sensitivity and transmission efficiency, J1 really achieves the goal of a 8~15km ultra-long-distance working range. And the power consumption of this carrying new generation module is 60% lower than additional UHF, making the Base working time is much longer.

Superior Endurance, Up to 25 hours working

J1 uses a built-in 10000mAh ultra-large capacity Li-ion battery, which can last 25 hours of continuous work (Static) benefits from low power consumption circuit design. The Type-C interface is used on J1 that it can support fast charging through a charger with PD protocol, and it can be full charged in 4 hours.

Double data backup

The measured data can be simultaneously stored into both internal memory of receiver and controller, realizing the measured data double backup, which effectively avoid data loss.

Upward and hidden UHF antenna design

Upward UHF antenna design, achieving all-direction UHF signal receiving and transmitting. And the antenna interface is hidden into top cover that effectively avoid accident breaking, protect from water and dust.

Intelligent base signal locking technology

Using one-to-one signal tracking and locking technology, and the independent frequency under Farlink protocol, the J1 rover can continuously lock and capture the target base station signal to reduce cross-frequency interference even though other base stations are working nearby with the same channel.

Smart system management-ROS

J1 is integrated with the ROS system, which comes with intelligent deployment of multi-mode hardware components, strong computing power and an intelligent scheduling mechanism, and coupling with an ultra-fine memory management mechanism, making the fluency and running speed of the receiver comprehensively improved.

SPECIFICATIONS

| GNSS Features | 1598 | WIFI |
|---------------------------|--|--|
| | L1C/A, L1C, L2C, L2P, L5 | Modem |
| | | WIFI hotspot |
| SDS | B1I, B1C, B2I, B2a, B3 | |
| SALILEO | E1, E5A, E5B, E5AltBOC, E6 | accessing with any mobile terminals |
| | OS, WAAS, GAGAN, MSAS, SDCM(L1,L5) | |
| 755 | L1C/A, L1C, L2C, L5, L6 | |
| | L5*(reserved) | Data Storage/Transmission |
| On module L-Band (Reserve | | Storage 16GB SSD internal storage standard, extendable up to 64GB |
| Positioning output rate | | Automatic cycle storage |
| | | Support external USB storage |
| | > 99.9% | The customizable sample interval is up to 20Hz |
| milianzation renability | | Data transmission Plug and play mode of USB data transmission |
| | | |
| Positioning Precision | nn* | Supports FTP/HTTP data download Static data format |
| ositioning Flecisio | JII | Differential data format CMR, RTCM 2.x, RTCM 3.x(MSM included) |
| .eai-time kinematic | Horizontal: 8 mm + 0.5 ppm RMS | Position output data format NMEA 0183, PJK plane coordinate, SBF |
| Baseline<40km) | Vertical: 15 mm + 1 ppm RMS | Network model supportsFully support NTRIP protocol |
| CNSS atatio | Harizantal: 2 5 mm + 0 5 mm DMC | rvetwork model supports Fully support INTRIP protocol |
| NOO SIBIIC | | |
| | Vertical: 5 mm + 0.5 ppm RMS | C |
| | Horizontal: 1.2m Vertical: 1.9m RMS | Sensors |
| | Horizontal: 0.4m Vertical: 0.7m RMS | Electronic bubble Controller software can display electronic |
| SBAS positioning | Horizontal: 0.6m Vertical: 0.8m RMS | bubble, checking leveling status of the |
| | | carbon pole in real-time |
| | | Thermometer Built-in thermometer sensor, adopting intelligent |
| lardware Performa | nce | temperature control technology, monitoring and |
| imension | 165mm(φ) × 108mm(H) 1.35kg (battery included) | adjusting the receiver temperature |
| /eight | 1.35kg (battery included) | , , |
| laterial | Magnesium aluminum alloy shell | |
| | 45°C ~ +65°C | User Interaction |
| torage temperature | 45℃ ~ +85℃ | Operating system Linux |
| umidity | ······ 100% Non-condensing | Buttons Dual-button |
| | IP68 standard, protected from long | Indicators |
| vvatorproon/Dustproon | time immersion to depth of 1m | Web interaction With the access of the internal web interface |
| | IP68 standard, fully protected against | management via WiFi or USB connection, users |
| | blowing dust | are able to monitor the receiver status and |
| hock/Vibration | | change the configurations freely |
| TIOCK VIDIALION | the cement ground naturally | Voice guidance It provides status and operation voice guidance, |
| Power supply | 9-28V DC, overvoltage protection | Secondary development Provides secondary development |
| atterv | | package, and opens the OpenSIC observation |
| ишо у | unremovable Li-ion battery | data format and interaction interface definition |
| atteny life | Static: 20~25hrs | uata iormat and interaction interace definition |
| battery life | Base: 10~12hrs | |
| | Rover: 16~20hrs | |
| | | |
| Communications | | |
| | F DIN I FMO external | |
| O Port | _5-PIN LEMO external power port + RS232 | |
| | Type-C interface (charge + OTG + Ethernet) | |
| | 1 UHF antenna interface | |
| | 1 PPS ouput interface | |
| | SIM card slot (Micro SIM) | |
| | | |
| requency range | 410 - 470MHz Farlink, Trimtalk450s, SOUTH, | |
| ommunication protocol | | |
| | HUACE, Hi-target, Satel | |
| | Typically 8-15km with Farlink protocol | |
| | | |
| Cellular mobile network | 4G cellular module standard | |
| Cellular mobile network | | tThe data sames from the COUTLICENCE Product to boundary and the |
| Bluetooth | 4G cellular module standard | *The data comes from the SOUTH GNSS Product Laboratory, and the specific situation is subject to local actual usage. |