



Spire provides a robust RTK sub-inch solution for mobile data collection in field.



ACCURACY Data down to the 2-cm range.



WORLDWIDE CORRECTIONS SBAS, Network RTK and future compatibilities.



COMPACT SIZE Carry with ease our lightest receiver yet.



OPEN INTERFACE Works with any platform.



SIMPLE TO USE One-button operation, no external antennas or cables.



ALL-DAY BATTERY LIFE From sunup to sundown, the battery will keep up with you and your workday.



DESIGNED & ASSEMBLED
★ ★ IN ★ ★
USA



IP68
Water & Dust Proof

Open Interface
IOS or Android

Accuracy
within 2cm



Subsurface Solutions

Damage Prevention Experts

For more details, visit: www.subsurfacesolutions.com.com

402-577-0227



JUNIPER RUGGED™

- Operating Temp: -20° C to +60° C (-4 F to +140° F)
- Storage Temp: -30° C to +60° C (-22 F to +140° F)
- IP68 rating (1 m for 45 min)
- Water resistant and dust proof
- Meets or exceeds MIL-STD-810H

INCLUDED ACCESSORIES

- AC power supply
- Adapter kit (EU/UK)
- USB-C cable
- 5/8-11 to 1/4-20 adapter
- User manual: available in English, French,

German, and Spanish

DIMENSIONS

- External measurements in metric/imperial:
143mm X 78mm X 60mm
(5.65in X 3.05in X 2.36in)
- Weight: 330 g (11.6 oz)
- Mount: 5/8-11 UNJC

COMMUNICATIONS

- Bluetooth® version 4.2 BR/EDR Class 1
- USB-C used data transfer and charging
- USB-C data transfer supported at 115200 Baud

STORAGE

- Device storage: 512 MB Flash memory

SOFTWARE

- Juniper Connect™ software provides

configuration, communications setup, and receiver settings

- Available for:
- iPhone and iPad
- Android 8 or later
- Windows 10/11

WARRANTIES

- 24 months for Spire GNSS Receiver
- 90 days for accessories
- Extended service and maintenance plans

COMPATIBILITY

- Juniper Connect™ software provides configuration, communications setup, and receiver settings.
- Windows® 10 and later
- Android™ 8 and later
- iPad and iPhone. See our website for a full list of compatible Apple™ devices.

RECEIVER

- Receiver Type: GNSS multi-frequency
- Signals:
 - GPS: L1CA, L2C, L5
 - GLONASS: G1, G2I
 - GALILEO: E1BC, E5a, E6
 - Beidou: B1I, B1C, B2a, B3
 - QZSS: L1CA, L1CB, L2C, L5, L6
 - NavIC: SPS-L5
- Can track all major constellations and SBAS concurrently
- SBAS: WAAS, EGNOS, MSAS, GAGAN, BDSBAS, SouthPAN
- Update rate: 1 Hz standard (up to 20Hz¹)

ACCURACY²

- SBAS/SLAS: 0.7m (horizontal RMS)
- RTK (Fixed): 1.5cm + 1ppm (horizontal RMS)
- Autonomous: 1.2m (horizontal RMS)
- Cold Start: 27 sec typical (no almanac)
- Reacquisition: 2 sec

ANTENNA

- Internal precision quadrifilar helical antenna

RECEIVER PROTOCOLS

- Data I/O Protocol: NMEA-0183 4.11,

- UBX Binary (proprietary)
- Correction I/O Protocol: RTCM v3.x

POWER

- Rechargeable Li-Ion battery: 5500 mAh
- Run-time: 20 hours³
- Charging time: 6 hours
- Input Voltage: 5 V DC @ 3 A USB
- Power Consumption: 1 W nominal
- Overtime II Technology™ Battery: 3.6 V 5500

mAh Li-ion

¹ Some NMEA messages reduced at higher data rates, consult Spire documentation.
² GNSS accuracy subject to observation conditions, multipath environment, number of satellites in view, satellite geometry, and ionospheric activity.
³ Battery run time dependent on correction signals and full temperature.



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402.577.0227 | admin@subsurfacesolutions.com

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SYSTEMS