

YOUR LOCATION, OUR SOLUTION.

SCALABLE REAL-TIME GNSS RECEIVER

Looking for a simple and scalable sub-meter, sub-foot, decimeter, and centimeter GNSS solution at an affordable price? With the Geode, you can easily collect real-time GNSS data without the huge price tag or complexity of other precision receivers.

Designed with versatility in mind, the Geode works well with with most Apple®, Windows®, and Android™ devices. An integrated antenna makes messy cables a thing of the past, yet still has an external antenna port if it's needed. Take the Geode with you mounted on a pole, in a pack, or held in your hand to collect real-time precision GNSS data wherever the job takes you.



SCALABLE ACCURACY – Collect precision multi-frequency, multi-constellation GNSS data at various accuracy levels



WORLDWIDE CORRECTIONS – Multiple correction sources provide precise, real-time data



COMPACT SIZE – Small and lightweight for all-day use



OPEN INTERFACE – Works with Juniper Systems' handhelds or your own device



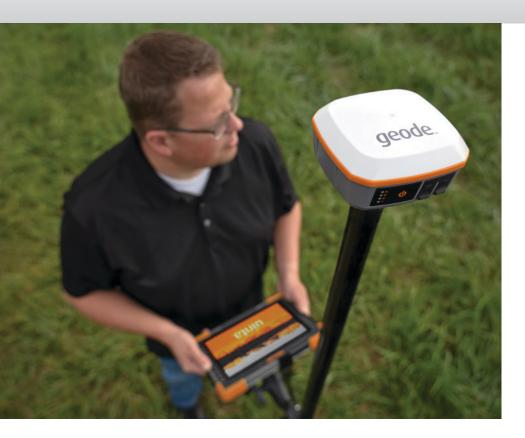
SIMPLE TO USE – Intuitive and easy operation, one-button simplicity



ALL-DAY BATTERY LIFE – Ideal for long work days



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GEODE GNS3 COMPATIBILITY

- Windows® PC
- Android™ 8 and above
- · iPhone and iPad (See our website for full list of compatible Apple devices)
- GeodeConnect[™] software provides configuration, communications setup, and receiver settings

RECEIVER

- · Receiver Type: GNSS multi-frequency, multi-constellation
- · Signals: GPS: L1CA, L1P, L1C, L2P, L12P, L2C, L5, GLONASS: G1, G2, BeiDou: B1, B2, B3 (without L5), GALILEO: E1BC, E5a, E5b and OZSS: L1CA, L1C, L2C, L5
- · Channels: 800+
- · SBAS Support: 3-channel parallel tracking
- · L Band: Atlas⁴ worldwide 1525-1560 Mhz (with Subscription)
- Update Rate: 1 Hz standard, up to 10 Hz and 20 Hz options

ACCURACY

- SBAS: 30 cm RMS¹
- · RTK:1cm RMS
- · Atlas (95%): H10: 8 cm, H30: 30 cm, Basic: 50 cm (requires subscription)
- · Autonomous: 1.2 meters RMS²
- · Cold Start: <60 sec typical (no almanac)
- · Reacquisition: 15 sec Atlas, all others <1 sec

COMMUNICATIONS

- · Bluetooth® 5.1 SPP, iAP2, EAP
- · Bluetooth Range: Class 1 Long Range
- · Ports: USB Type-C; Serial RS232C DB-9
- · Serial Baud Rates: 4800-115200

RECEIVER PROTOCOLS

- · Data I/O Protocol: NMEA 0183, Crescent Raw Binary (proprietary)
- Correction I/O Protocol: Hemisphere GNSS Proprietary, ROX, RTCM v2.3, RTCM v3.2, CMR, CMR+
- · Other: 1PPS Timing Output, Speed Pulse, Event Marker Input (optional)

- of satellites in view, satellite geometry, and ionospheric activity. Signals used dependent on model configuration. Battery run time dependent on correction signal and temperature. Atlas and Athena are registered trademarks of Hemisphere GNSS Inc.

POWER

- · Input Voltage: 5VDC @ 2A USB
- Power Consumption: 1.7–2 W nominal
 Overtime Technology™ Battery: 3.6V 6000 mAh Li-ion (GNS3M) 10 hours³, (GNS3S) 16 hours³
- · Charging Time: Less than 4 hours

ANTENNA

- · Internal precision single/multi-frequency with integrated ground plane
- · External Antenna Port: MCX type

JUNIPER RUGGED™

- · Operating Temp: -20 C to +60 C
- · Storage Temp: -30 C to +60 C
- · Meets or Exceeds MIL-STD 810G (Drop,
- Vibration, Temperature, Ingress Protection)
- · Enclosure Rating: IP68 (1.4 meters for 30 min)

RECEIVER UPGRADES

- · 10 Hz Data Rate
- · 20 Hz Data Rate
- · Multi-Frequency
- · Atlas Basic
- · Atlas H30
- · Atlas H10
- Athena⁴ RTK Engine

INCLUDED ACCESSORIES

- · Cable: USB-A to USB Type-C
- · Cable: USB Type C to USB Type-C
- · 5/8 x 11 Pole Mount Adapter
- · USB charger

CONFIGURATIONS

- · Geode GNS3S Single Frequency Antenna, 9-pin serial port, No Atlas support
- · Geode GNS3M Multi Frequency Antenna, 9-pin serial port, All Atlas subscriptions supported

DIMENSIONS

- 110x110x57 mm (4.36x4.36x2.25 in)
- Weight: 394 g (14 oz)
- Mount: ¼ x 20 camera stud and M4 AMPS diagonal



