

## YOUR LOCATION, OUR SOLUTION.

#### SCALABLE REAL-TIME GNSS RECEIVER

Looking for a simple and scalable sub-meter, sub-foot, and decimeter 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



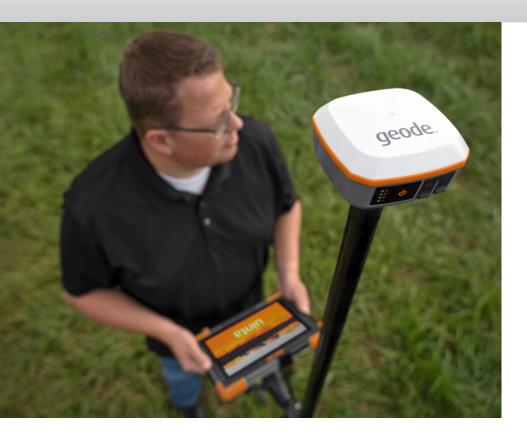
**SIMPLE TO USE** – Intuitive and easy operation, one-button simplicity



**ALL-DAY BATTERY LIFE** – Ideal for long work days



# geode



Made for **≰**iPhone | iPad





#### GEODE GNS3 COMPATIBILITY

- Windows® PC
- Android™ 7 and above
- · iPhone and iPad (See our website for full list of compatible Apple devices)
- GeodeConnect<sup>™</sup> 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: Atlas worldwide 1525-1560 Mhz (with Subscription)
- Update Rate: 1 Hz standard, up to 10Hz and 20Hz options

#### ACCURACY

- SBAS: <30 cm HRMS<sup>1</sup>, <60 cm 2DRMS
- · Atlas (95%): H10: 8 cm, H30: 30 cm, Basic: 50cm (requires subscription)
- · Autonomous: 1.2 meters HRMS<sup>2</sup>
- · Cold Start: <60 sec typical (no almanac)
- · Reacquisition: 15 sec Atlas, all others <1 sec

#### COMMUNICATIONS

- · Bluetooth® 4.1 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)

#### POWER

- · Input Voltage: 5VDC @ 2A USB
- · Power Consumption: 1.7–2 W nominal
- · Overtime Technology™ Battery: 3.6V 6000 mAh Li-ion (GNS3M) 10 hours<sup>3</sup>, (GNS3S) 16 hours3
- · Charging Time: Less than 4 hours

- · 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
- · 20Hz Data Rate
- · Multi-Frequency
- · Atlas Basic
- · Atlas H30
- · Atlas H10

### **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**

- · 110x110x57mm (4.36x4.36x2.25in)
- · Weight: 394g (14 oz)
- Mount: ¼ x 20 camera stud and M4 AMPS diagonal





of satellites in view, satellite geometry, and ionospheric activity
Signals used dependent on model configuration
Battery run time dependent on correction signal and temperature