

## 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<sup>®</sup>, Windows<sup>®</sup>, and Android<sup>™</sup> 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.

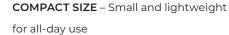


SCALABLE ACCURACY – Collect precision multi-frequency, multi-constellation GNSS data at various accuracy levels



WORLDWIDE CORRECTIONS – Multiple

correction sources provide precise, real-time data





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

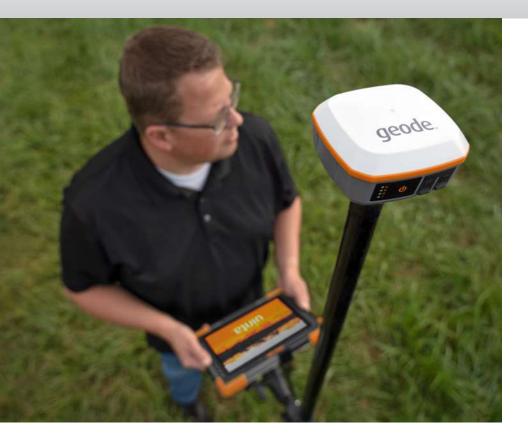


SIMPLE TO USE – Intuitive and easy operation, one-button simplicity

ALL-DAY BATTERY LIFE – Ideal for long work days



# **geode**





#### 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, P1, P2, BeiDou: B1, B2, B3 (without L5), GALILEO: E1BC, E5a, E5b and QZSS: 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: 10 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<sup>®</sup> 4.1 SPP, iAP2, EAP
- Bluetooth Range: Class 1 Long Range

#### RECEIVER PROTOCOLS

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

#### POWER

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

#### ANTENNA

- Internal precision single/multi-frequency with integrated ground plane
- External Antenna Port: MCX type, 50 ohm 15VDC @ 45 mA maximum (GNS3M)/ 20mA maximum (GNS3S)

#### JUNIPER RUGGED<sup>™</sup>

- 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 #6-32 AMPS





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- - Ports: USB Type-C; Serial RS232C DB-9
  - · Serial Baud Rates: 4800–115200

- Correction I/O Protocol: Hemisphere GNSS

CNSS accuracy subject to observation conditions, multipath environment, number of satellites in view, satellite geometry, and ionospheric activity. Signals used dependent on model configuration