

GEOSPATIAL SOLUTIONS REFERENCE SHEET



GEODE™ GNS3



**ARCHER™ 4 GNSS
POD**



SPIRE™



EOS SKADI™ GOLD



**RADIODETECTION
RD8200SG**

Compatibility	iPhone and iPad, Android™ 8 and later, Windows 10 and later	Android™ 14 and later (Archer 4 handheld)	iPhone and iPad, Android™ 8 and later, Windows 10 and later	iPhone and iPad, Android™, Windows	iOS and Android™ phones via Bluetooth
Typical Accuracy*	6 in to 1 ft without RTK corrections, RTK: 1cm	SBAS: <1m, RTK: 1.5cm	SBAS: 70cm, RTK: 1.5cm	SBAS: <30cm, Atlas: 15–4cm, GALHAS: <20cm†, RTK: 8mm	RTK: 1cm + 1ppm‡, SBAS where available
Range of Correction Services	SBAS, RTK, Atlas L-Band, Galileo HAS, Nationwide Skylark RTK	Supports SBAS and RTK, Nationwide Skylark RTK	Supports SBAS and RTK + future services like Galileo HAS, Nationwide Skylark RTK	SBAS, RTK, Atlas L-Band, Galileo HAS, Nationwide Skylark RTK ; SafeRTK® backup	SBAS and RTK (NTRIP, RTCM 3.x), Nationwide Skylark RTK
Constellations and Frequencies	Options for single to multi-frequency antenna and faster update rates	Dual-band allows for L1/L2 frequencies and multi-constellation	Multi-frequency and tracks all constellations for maximum coverage	All frequencies, all constellations (800+ channels)	Dual-frequency GPS, GLONASS and Galileo
All-Day Battery Life Charging Time	16 hours SBAS, 10 hours RTK Charge: <4 hours	12 hours SBAS, 10 hours RTK (8300mAh battery) Charge: <4 hours (4,500 mAh), <5 hours (8,300 mAh)	20 hours SBAS or RTK Charge: <6 hours	9+ hours (8+ with tilt compensation), hot-swap battery pack Charge: 2.5 hours (20W USB-C)	18 hours continuous (Li-ion pack) Charge: 3 hours to 80%
Internal Antenna	Precision single/multi-frequency with integrated ground plane	Quadrifilar Helical L1/L2	Precision quadrifilar helical	Integrated all-frequency antenna	Precision-tuned helical with low-noise amplifier
Weight and Dimensions	14.5 oz (405 g) 4.36x4.36x2.25 in (110x110x57mm)	1.48 oz (42 g) pod only 11.5–13.9 oz (325–395 g) with Archer 4 4.02x1.65x1.32 in (102x42x33.5mm)	11.6 oz (330 g) 5.65x3.05x2.36 in (143x78x60mm)	21.5 oz (610 g) with battery 5.6x3.7x2.3 in (142x95x60mm)	5.2 lb (2.4 kg) with battery 27.0x13.8x5.4 in (687x350x137mm)
Operation and Interface	Simple one touch button design, Juniper Connect app, LocatelQ app	All-in-one design, pod snaps onto the Archer 4 6-inch rugged tablet; Juniper Connect app, LocatelQ app	Simple one touch button design, Juniper Connect app, LocatelQ app	Skadi Standard Handle; optional tilt compensation and Smart Handle; Eos Tools Pro, LocatelQ app	Locator keypad and LCD; locate and map in one pass with the LocatelQ app
Protection Rating	IP68 waterproof & dustproof, MIL-STD 810H	IP68 waterproof & dustproof, MIL-STD 810H (Archer 4 handheld)	IP68 waterproof & dustproof, MIL-STD 810H	Designed to meet IP67 waterproof	IP65 dust and water-jet resistant
Operating Temp Storage Temp	-4 F to 140 F (-20 C to 60 C) -22 F to 140 F (-30 C to 60 C)	-4 F to 140 F (-20 C to 60 C) -4 F to 140 F (-20 C to 60 C)	-4 F to 140 F (-20 C to 60 C) -22 F to 140 F (-30 C to 60 C)	-40 F to 185 F (-40 C to 85 C) -40 F to 185 F (-40 C to 85 C)	-4 F to 122 F (-20 C to 50 C) -31 F to 158 F (-35 C to 70 C)
User Type	Mapping professionals who operate in harsh locations and disconnected environments	Highly mobile users who need compact, all-in-one solution	Entry-level users who value simplicity, light weight and ease of use	Crews who need survey-grade accuracy with tilt-compensated, pole-free capture	Utility locators who map buried assets as they locate them and want every point scored on both locate quality and positional accuracy

*Upgrade to RTK for accuracy under an inch.

Accuracy specifications are reported as RMS (Root Mean Square). †Skadi Gold Galileo HAS is 2dRMS; RD8200SG RTK is CEP. Actual performance may vary depending on operating conditions.

Specifications are subject to change without notice. All trademarks are registered or recognized by their respective owners.

SUBSURFACE SOLUTIONS

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CHOOSE THE RIGHT RECEIVER



CHOOSE GEODE™ GNS3 FOR:

- Most flexible GNSS platform
- Multiple accuracy and correction options
- Working in disconnected environments
- Specialized workflows



CHOOSE GNSS POD FOR:

- Compact and lightweight
- All-in-one solution with a receiver and handheld
- No external mounting or cables
- Simple, mobile-friendly mapping



CHOOSE SPIRE™ FOR:

- Lighter weight and easier setup
- An affordable option for precision mapping
- Mobile-first workflows
- Static logging



CHOOSE SKADI™ GOLD FOR:

- Survey-grade RTK with SafeRTK® backup
- Tilt compensation, no leveling the pole
- Pole-free elevations with the Smart Handle
- Hot-swap battery for all-day work



CHOOSE RD8200SG FOR:

- Locating and mapping buried utilities in one pass
- No separate GNSS receiver or handheld
- RTK position on every locate point
- 18-hour battery life

SUPPORTING SOFTWARE AND SERVICES

LOCATEIQ™ UTILITY MAPPING

The universal collection app that connects any hardware to your software

- **Writes directly to Esri ArcGIS or Subsurface Maps**
- **Or use the free local-files version**
- LocateIQ Rating scores every locate point plus a cumulative score for the line
- Real-time location accuracy from both satellites and the utility locator
- Correction service management
- RTK positioning via Bluetooth GNSS and NTRIP
- 811 ticket tagging and offline capture

JUNIPER CONNECT UTILITY

- Free iOS and Android app
- Device setup and configuration
- Receiver status monitoring
- Correction service management
- Static Logging (Spire)

EOS TOOLS PRO (SKADI™)

- Free iOS and Android app
- Real-time accuracy, DOP and satellite monitoring
- Built-in NTRIP client for RTK
- Tilt-compensated and Smart Handle positions passed to any mapping app

SKYLARK™ RTK CORRECTION SERVICE

- \$330 per year
- Nationwide coverage
- RTK corrections over a cellular connection
- No base station required