

Skadi Gold™



- Supports all GNSS constellations
- Supports free Galileo HAS decimeter corrections
- Skadi Tilt Compensation™ (activation)
- Skadi Smart Handle™ (upgrade)
 - Invisible Pole Mode
 - Extensible Pole Mode
- Supports Atlas® subscriptions
- 8+ hours Hot-swap battery pack
- USB-C quick charging
- iOS®, Android™, and Windows®
- Supports 1 centimeter RTK accuracy and SafeRTK® for temporary signal loss
- Supports all mobile GIS software



Tilt Compensation™

Eliminates the need to level your survey range pole while collecting data.



Extensible Pole™

Laser pointer to help you aim at short-distance assets on the ground while retaining high accuracy



Invisible Pole™

Keeps your measurement plumb to the ground using LiDAR and MEMS technologies



Subsurface Solutions

Damage Prevention Experts

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

402-577-0227

Specifications

GPS Sensor

ReceiverType:	All-frequency all-constellation GNSS RTK receiver with integrated antenna
Channels:	800+ channels
GNSS Signals Received:	GPS: L1CA, L1P, L1C, L2P, L2C, L5 GLONASS: G1, G2, G3, P1, P2 Galileo: E1BC, E5a, E5b, E6BC, ALTBOC BeiDou: B1i, B2i, B3i, B1C, B2A, B2B, ACEBOC QZSS: L1CA, L1C, L2C, L5, LEX IRNSS: L5
SBAS Support:	3 channel, parallel tracking (with SBAS ranging)
L-Band (Atlas®) Support:	1 channel
Accuracy:	
RTK:	8 mm1 + 1 ppm horizontal, 2 cm1 + 1 ppm vertical (RMS)
Skadi Tilt Compensation™:	RTK accuracy + 0.3 mm per degree of tilt
Atlas®:	H10: 4 cm HRMS1 H30: 15 cm HRMS1 H50 (Basic): 15 cm HRMS1 < 20 cm 2dRMS SBAS: < 30 cm HRMS1, < 60 cm 2dRMS < 30 cm HRMS1 , < 60 cm 2dRMS
Galileo HAS:	< 30 cm HRMS1
SBAS:	< 30 cm HRMS1
Autonomous:	1.2 meters HRMS1
Miscellaneous Specifications:	
Standard Update Rate:	Up to 10 Hz (20 Hz optional activation)
Cold Start:	< 60 seconds typical (no almanac or time)
Reacquisition:	< 1 second
Maximum Speed:	1,850 kph (1,150 mph / 999 knots)
Maximum Altitude:	18,288 m (60,000 ft)
Output Datum:	
Autonomous Datum:	WGS-84 (latest revision)
SBAS and Atlas® Datum:	ITRF (current year epoch)
Galileo HAS Datum:	GTRF (latest implementation)
RTK Datum:	Same as RTK base station/network
Device Compatibility:	iPhone® and iPad® Android™ smartphones and tablets Windows®, Windows Mobile®

Communication

Port:	
Pre-Qualified Bluetooth:	Bluetooth®, USB-C 2.0, serial Dual-mode Bluetooth v4.2 BD/EDR – BLE (v5.1 tested)
Supported Bluetooth Profiles:	SPP, iAP2
Bluetooth Transmission:	Class 1 with 200 m typical range2
Data I/O formats:	NMEA 183, RTCM SC-104, binary
Raw Measurement Data:	Binary and RINEX
Correction I/O Protocol:	RTCM 2.x, 3.x, MSM, proprietary binary
Timing Output:	1PPS, CMOS, Active High, Rising Edge Sync, 10 kΩ, 10 pF Load (via serial port)
Event Marker Input:	CMOS, Active Low, Falling Edge Sync, 10 kΩ, 10 pF Load (via serial port)

Environmental

Operating Temperature:	-40°C to +85°C (-40°F to +185°F)3
Storage Temperature:	-40°C to +85°C (-40°F to +185°F)
Humidity:	95% non-condensing
Compliance:	FCC, CE, RoHS and lead-free

Mechanical

Enclosure Material:	Xenoy® with TPU overmold
Enclosure Rating:	Waterproof, designed to meet IP-67
Immersion:	30 cm, 30 minutes
Receiver Dimensions:	14.2 cm x 9.5 cm x 6 cm (5.6" x 3.7" x 2.3")
Weight with Battery:	610 g (1.34 lbs)
Weight with Skadi Standard Handle™:	935 g (2.06 lbs)
USB Connector:	USB type C receptacle
Serial Connector:	5-pin circular jack
External Antenna Connector:	HD-BNC female

Standard Included Accessories

Skadi Gold™ GNSS receiver with integrated antenna	USB-C power adapter
Pole mounting plate for Skadi Series™	USB-C cable
Phone mounting bracket for Skadi Series handles	Skadi Series hardshell case
Tablet mounting bracket for Skadi Series handles	Skadi Standard Handle™
Skadi Series Li-Ion battery pack	

Optional Accessories & Activations

Skadi Tilt Compensation™
Skadi Smart Handle™ 20 Hz data output rate
External antenna and cable
Spare Skadi Series battery pack
Atlas® satellite correction service

Power

Battery Type:	Field replaceable, 24 Wh rechargeable Lithium-ion pack (rechargeable inside the receiver or separately)
Battery Autonomy:	9+ hours3 (without tilt compensation)
Battery Autonomy:	8+ hours3 (with tilt compensation)
Charging Time:	2.5 hours (with supplied 20W USB-C power adapter)
Hot-Swap Back-Up Battery Autonomy:	10+ minutes

NOTES :

- 1 Depends on multipath environment, number of satellites in view, satellite geometry, baseline length (for local services) and ionospheric activities. Stated accuracies for baseline lengths of up to 50 km
- 2 Transmission in free space
- 3 Lithium-ion battery performance degrades below -20° C (-4° F)

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