



## Skadi 100™ GNSS: Submeter Receiver for Your Smartphone, Tablet, or Laptop

*The Skadi 100™ is a submeter, multi-constellation GNSS receiver designed to be used with any iOS®, Android™, or Windows® device. The Skadi 100 incorporates rock-solid, wireless Bluetooth® technology to ensure high-accuracy locations are provided to any device. This makes it a future-proof submeter GNSS receiver that can evolve with your mobile devices and data collection software choice.*



### Real-time Submeter Accuracy, Worldwide

The Skadi 100 supports all global GNSS constellations (e.g., GPS, GLONASS, Galileo, BeiDou) to maximize your productivity. Taking full advantage of free SBAS in most regions, the Skadi 100 delivers 30-60 centimeter real-time corrected locations directly to your app. No need to connect to a local differential correction source; just fire it up! Using SBAS corrections from WAAS, EGNOS, MSAS, GAGAN, SouthPAN, and testbeds, the Skadi 100 is designed to perform and deliver corrected locations even in the most challenging conditions. For regions without a free SBAS, the Skadi 100 supports the Atlas® H50 satellite subscription service to achieve 30-50 centimeter worldwide accuracy.

For more details, visit:  
[www.eos-gnss.com](http://www.eos-gnss.com)

# Skadi 100™



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### Skadi 100™ Key Features:

- Support for GPS, GLONASS, Galileo and BeiDou
- Integrated antenna design
- Skadi Standard Handle™ for handheld configuration
- Over-mold design for shock-resistance
- Hot-swap battery pack
- 13+ hours of operation on one charge
- USB-C quick charging
- Compatible with iOS®, Android™ and Windows® devices
- 30-60 centimeter real-time accuracy using free SBAS (WAAS, EGNOS, MSAS, GAGAN, SouthPAN)
- Optional RTK accuracy of 1 centimeter + 1 ppm (short-baselines)
- Supports all mobile GIS software



### Works with Any Mobile GIS App

The Skadi 100 does not require any additional hardware or software in order to obtain submeter accuracy. The Skadi 100 streams SBAS-corrected real-time submeter location data into any mapping or data-collection app of your choice on your mobile device.

### Skadi Standard Handle™

The Skadi 100 ships with the Skadi Standard Handle™, an ergonomic device that turns the Skadi 100 into a handheld GNSS data collector. The Skadi Standard Handle comes with brackets to accommodate any commercial smartphone or tablet up to 11" in size and allows for rotation between portrait and landscape modes.

### Shapeshift in the Field

The Skadi 100 features an integrated antenna, ergonomic handle, and hot-swap, all day battery. This innovative design offers you the flexibility of shapeshifting your field mounting setups on the go. Seamlessly transition between a handheld configuration, surveying range pole, or backpack setup in no time. The Skadi 100 can also accommodate an external antenna for use in vehicle applications or another carry-on setup (e.g., safety vest, chest pack).

# Specifications

## GPS Sensor

Receiver Type:	Submeter, Single-Frequency GNSS Receiver tuned for SBAS
GNSS Signals Received:	GPS: L1CA, L1P, L1C GLONASS: G1 Galileo: E1BC BeiDou: B1i QZSS: L1CA
SBAS Support:	3 channel, parallel tracking (with SBAS ranging)
L-Band ( <i>Atlas® H50 only</i> ) Support:	1 channel
<b>Accuracy:</b>	
Autonomous Accuracy:	1.2 meters HRMS <sup>1</sup>
SBAS Accuracy:	< 30 cm HRMS <sup>1</sup> , < 60 cm 2dRMS
Atlas® H50 Accuracy:	30 cm HRMS

### Miscellaneous Specifications:

Standard Update Rate:	1 Hz standard (10 Hz and 20 Hz optional activations)
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)
Device Compatibility:	iPhone® and iPad® Android™ smartphones and tablets Windows®, Windows Mobile®

## Communication

Port:	Bluetooth®, USB 2.0, Serial
Pre-Qualified Bluetooth:	Dual-mode Bluetooth v4.2 BD/EDR – BLE (v5.1 tested)
Supported Bluetooth Profiles:	SPP, iAP2
Bluetooth Transmission:	Class 1 with 200 m typical range <sup>2</sup>
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)

## Power

Battery Type:	Field-replaceable, rechargeable 24 Wh lithium-ion pack (rechargeable inside the receiver or separately)
Battery Autonomy:	13+ hours <sup>3</sup>
Charging Time:	2.5 hours (with supplied 20W USB-C power adapter)
Hot-Swap Back-Up Battery Autonomy:	15+ minutes



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## Environmental

Operating Temperature:	-40°C to +85°C (-40°F to +185°F) <sup>3</sup>
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 5.5 cm (5.6" x 3.7" x 2.16")
Weight with Battery:	580 g (1.28 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 100™ 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

10 Hz or 20 Hz data output rate
External antenna and cable
Spare Skadi Series battery pack
Tablet mounting bracket for Skadi Series handles
Atlas® satellite correction service

### NOTES :

<sup>1</sup>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

<sup>2</sup>Transmission in free space

<sup>3</sup>Lithium-ion battery performance degrades below -20° C (-4° F)

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