

High-Accuracy GNSS Receiver for Your Smartphone, Tablet, or Notebook Computer

The Arrow 100 is designed specifically to use with a variety of mobile devices, including your smartphone, tablet, or notebook computer. It incorporates rock-solid, wireless Bluetooth[®] technology that works with Android, iOS, and Windows[®] devices, making it obsolete-proof. Contemplating switching from an iPhone to an Android phone or vice-versa? No problem, the Arrow 100 works smoothly with both.

Use the Mobile GIS Software of Your Choice

Seems like a new mobile GIS software is being offered each week? With the Arrow 100 you will not be tied to legacy GNSS receiver hardware or GIS software, it will grow with you. The Arrow 100 feeds submeter accuracy to every app on your Android or iOS device, even Google or Apple maps! Esri Collector, AmigoCloud, MapItFast, GeoJot, iCMTGIS, it works seamlessly with all of them and many more mapping apps.

Real-time, Worldwide Accuracy

The Arrow 100 takes advantage of GPS, GLONASS, Galileo, BeiDou, and free SBAS corrections in most regions of the world, North America is covered by WAAS, Europe and North Africa by EGNOS, India is covered by GAGAN, and Japan by MSAS. The abovementioned free SBAS services provide 60 cm real-time accuracy. For those regions not covered by a free SBAS, Eos has partnered with Atlas to provide real-time submeter accuracy in South America, Australia, and Central and South Africa.



Key Features:

- Full GNSS (GPS, GLONASS, Galileo, BeiDou)
- 100 % Android, iOS, Windows compatible
- 60 cm real-time accuracy using free SBAS
- Supports all mobile GIS softwares
- Supports Atlas™ H100 service



Works Where Other Receivers Can't

The Arrow 100 was designed specifically with GIS users in mind. It squeezes more accuracy from SBAS corrections than any other receiver in the world. With its patented technology, you can use it under trees, around buildings, and in rugged terrain where other receivers will fail to deliver. Where having GPS is just not enough, the Arrow 100 uses GLONASS, Galileo, and BeiDou signals from at least 24 extra satellites. Real-time results in the field optimize your efficiency, no post-processing required!



For more details, www.eos-gnss.com

Specifications

GPS Sensor ____

Receiver Type:

Channels Number of Tracked Satellites:

SBAS Support:

Update Rate: DGNSS Horizontal Accuracy: SBAS Accuracy:

Horizontal Accuracy:

Optional Proprietary RTCM: Optional Single Frequency RTK: Cold Start: Reacquisition: Maximum Speed: Maximum Altitude:

Communication _

Port Bluetooth Transmission: Bluetooth Frequency: Fully Bluetooth Pre-Qualified: Supported Bluetooth Profiles: Data I/O Protocol: Raw Measurement Data: Correction I/O Protocol: GNSS Status LED: Battery Status LED:

Power

Battery Type:

Battery Capacity: Charging Time: Antenna Voltage Output: Antenna Input Impedance:

Environmental -

Operating Temperature: Storage Temperature: Humidity: Compliance:

L1/1/1/B1, GPS, GLONASS, Galileo, BeiDou with carrier smoothing with carrier smoothing 158-channel, parallel tracking 12 GPS (15 when no SBAS) 12 GLONASS 15 Galileo 22 BeiDou 3-channel, parallel tracking WAAS, EGNOS, MSAS, GAGAN (SBAS ranging where supported) 1 Hz Default, optional 10 Hz and 20 Hz < 30 cm HRMS < 60 cm 2dRMS, 95% confidence¹ (< 30 cm HRMS, < 25 cm CEP) < 2.5 m 2dRMS, 95% confidence¹ (autonomous, no SA) < 20 cm 2dRMS, 95% confidence¹ 1 cm + 1 ppm¹ < 60 sec typical (no almanac or time) < 1 sec 1,850 kph / 1,150 mph / 999 knots 18,288 m (60 000 ft)

Bluetooth, USB 2.0, serial (optional)

Class 1, 300 m typical range², up to 1 km 2.400 - 2.485 GHz Bluetooth 2.1 + EDR SPP and iAP NMEA-0183, RTCM SC-104, Binary **Binary and RINEX** RTCM, Optional Proprietary format Power, GNSS, DGNSS, DIFF, Bluetooth 5 LED Indicator

Field replaceable, rechargeable Lithium-Ion pack (rechargeable inside unit or separately) Battery Operating Time: 12+ hours³ 4 hours (vehicle charger available) 5 VDC 50 Ohms

-40°C to +85°C (-40°F to +185°F)³ -40°C to +85°C (-40°F to +185°F) 95% non-condensing FCC, CE, RoHS and Lead-free

Mechanical _

Enclosure Material: Enclosure Rating: Immersion: Dimensions: Weight: Data Connectors: Antenna Connector:

Antenna _

Frequency Range: Gain (without cable): Voltage: Impedance: Dimensions: Weight (without cable):

Antenna Connector: Finish: Temperature: Immersion:

Standard Accessories

Li-Ion Battery Pack (Field replaceable) 12VDC Power Supply Belt/Shoulder Carrying Case Precision Antenna with 1.5 m cable Soft Hat for Antenna USB Cable

Field Activated Options

10 Hz, 20 Hz Output Rate Base Station RTCM Output L1/G1 RTK for 1-3 cm

NOTES

- Depends on multipath environment, number of satellites in view, satellite geometry, baseline length (for local services) and ionospheric activities Transmission in free space
- 2. 3.
- Lithium-Ion battery performance degrades below -20°C (-4°F)

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Made in Canada 👾



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Authorized Distributor

SMA Female L1, G1, E1, B1 26 dB (+/- 2 dB), 35 mA +4.5 to +15 VDC 50 Ohms 6.6 diam. x 2.7 cm (2.61 x 1.05 in.) 114 g (0.25 lbs) with removable magnet mount) SMA Female

12.5 x 8.4 x 4.2 cm (4.92 x 3.3 x 1.65 in.)

Mini USB Type B Receptacle

Xenoy

Waterproof, IP-67

30 cm, 30 minutes

372 g (0.82 lbs)

Fluid Resistant -55°C to +70°C (-67°F to +158°F) 30 cm, 30 minutes