The World’s First RTK Receiver for Every Mobile Device

The Arrow 200 is the world’s first GNSS receiver able to provide 1 cm real-time accuracy on your Android, iOS, and Windows mobile device. Yes, you can enjoy 1 cm accuracy on your iPhone or Samsung Galaxy running TerraGo Edge, Esri Collector for iOS or whatever app software you prefer, even AutoCAD 360!

Designed for use with a broad range of mobile devices, from smartphones to tablets and notebook computers, the Arrow 200 incorporates rock-solid, wireless Bluetooth technology that works smoothly with Android, iOS, and Windows devices, making it obsolete-proof and portable across platforms.

Use the Mobile GIS Software of Your Choice

Seems like a new mobile GIS software is being offered each week? With the Arrow 200 you will not be tied to legacy GNSS receiver hardware or GIS software, it will grow with you. The Arrow 200 feeds 1 cm RTK accuracy to every app on your Android or iOS device, even Google or Apple maps! Esri Collector, AmigoCloud, MapItFast, GeoJot, iOMTGIS, it works seamlessly with all of them and many more mapping apps.

All Satellites, All Signals

The Arrow 200 incorporates premium features that place it among the highest performing receivers in the world. It takes advantage of all existing satellite constellations: GPS, GLONASS, Galileo, BeiDou, and free SBAS corrections, to deliver top-notch, 1 cm RTK performance anywhere in the world when connected to an RTK sub-10cm network, using Atlas H10 satellite differential correction service.

Key Features:

- Supports existing and future GNSS (GPS, GLONASS, Galileo, BeiDou)
- 100% Android, iOS, Windows compatible
- 1 cm RTK real-time accuracy
- Supports all mobile GIS software
- Supports Atlas H10, H30, and H100 services

The Ultimate in Worldwide High-Precision GNSS Technology

The Arrow 200 provides the ultimate in flexibility. Using your smartphone, tablet, or notebook computer, it can deliver 1 cm real-time accuracy when connected to an RTK network or RTK base. No RTK base? Then use one of Atlas’ satellite services to get up to sub-10 cm real-time accuracy anywhere in the world.

For more details, www.eos-gnss.com
GPS Sensor

**Receiver Type:** GNSS multi-frequency RTK with carrier phase

**Signals Received:** GPS, GLONASS, Galileo, BeiDou

**Channels:** 372-channel, parallel tracking

**Number of Tracked Satellites:**
- 12 GPS (15 when no SBAS)
- 12 GLONASS
- 15 Galileo
- 22 BeiDou

**SBAS Support:** 3-channel, parallel tracking

**Update Rate:** 1 Hz Default, optional 10 Hz and 20 Hz

**RTK Accuracy:** 1 cm1 + 1 ppm Horizontal

**Autonomous Accuracy:** <30 cm HRMS1

**Cold Start:** < 60 sec typical (no almanac or time)

**Reacquisition:** < 1 sec

**Max Speed:** 1,850 kph (1,150 mph / 999 knots)

**Max Altitude:** 18,288 m (60,000 ft)

Communication

**Port:** Bluetooth, USB 2.0, serial (optional)

**Frequency:** 2.400 - 2.485 GHz

**Bluetooth Pre-Qualified:** Bluetooth 2.1 + EDR

**Supported Bluetooth Profiles:** SPP and iAP

**Data I/O formats:** NMEA 0183, RTCM 104, Binary

**Output Datum:**
- Autonomous: WGS-84 (G1674) Epoch 2005.0
- SBAS: ITRF08 (current year epoch)
- RTK: Same as RTK base

**Raw Measurement Data:** Binary and RINEX

**Correction I/O Protocol:** RTCM 2.x, 3.x, CMR, CMR+, proprietary binary

**GNSS Status LEDs:** Power, GNSS, DGNSS, DIFF, Bluetooth

**Battery Status LED:** 5 LED Indicator

**Timing Output:** 1PPS, CMOS, active high, rising edge sync.
- 10 kΩ, 10 pF load (with optional serial port)

**Event Marker Input:** CMOS, active low, falling edge sync.
- 10 kΩ, 10 pF load (with optional serial port)

Power

**Battery Type:** Field replaceable, rechargeable Lithium-Ion pack.

**Battery Life:** Battery operating time 9+ h3 (without Atlas activated)

**Charging Time:** 4 hours (vehicle charger available)

Environmental

**Operating Temperature:** -40°C to +85°C (-40°F to +185°F)

**Storage Temperature:** -40°C to +85°C (-40°F to +185°F)

**Humidity:** 95% non-condensing

**Compliance:** FCC, CE, RoHS and Lead-free

Specifications

**Mechanical**

**Enclosure Material:** Xenoy

**Enclosure Rating:** Waterproof, IP-67

**Immersion:** 30 cm, 30 minutes

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

**Weight:** 372 g (0.82 lbs)

**Data Connectors:** Mini USB Type B Receptacle

**Antenna Connector:** SMA Female

**Antenna**

**GPS Freq Range:** 1525 - 1607 MHz, 1217 - 1260 MHz

**Impedance:** 50 OHMs

**Gain (no cable):** 26 dB ±2dB

**Noise Figure:** 2.5 dB Max

**Voltage:** +4.5 to +15 VDC

**Connector:** SMA female

**Dimensions:** 69 mm diam. x 22 mm (2.72 x 0.87 in.)

**Weight:** 170 g (0.374 lb)

**Temperature:** -55°C to +70°C (-67°F to + 158°F)

**Humidity:** Waterproof

Standard Accessories

- Li-Ion Battery Pack (Field replaceable)
- Pole Bracket and Clamp
- 12VDC Power Supply
- Hard Shell Carrying Case
- USB Cable
- Antenna Cable
- Antenna Mounting Plate

Field Activated Options

- 10Hz, 20Hz Output Rates

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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