



The World's First RTK Receiver for Every Mobile Device

The Arrow 200 is the world's first GNSS receiver able to provide 1cm real-time accuracy on your Android, iOS and Windows mobile device. Yes, you can enjoy 1cm accuracy on your iPhone or Samsung Galaxy running TerraGo Edge, Esri's 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 Arrow 200 you will not be tied to legacy GNSS receiver hardware or GIS software, the Arrow 200 will grow with you.

The Arrow 200 feeds 1cm RTK accuracy to every app on your Android or iOS device, even Google or Apple maps! TerraGo Edge, Esri Collector/ArcPad/ArcMobile, Fulcrum, AmigoCloud, TerraFlex, MapItFast, GeoJot, iCMTGIS, the Arrow 200 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, BeiDou, SBAS) as well as emerging and planned constellations (Galileo and QZSS) to deliver top-notch, 1cm RTK performance anywhere in the world when connected to an RTK Network Sub-10cm accuracy using Atlas™ H10 satellite differential correction service.

ARROW 200™

ARROW Series
for 1-3cm Accuracy with RTK

Key Features:

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



The Ultimate in World-wide High-Precision GNSS Technology

The Arrow 200 provides the ultimate in flexibility. Using your smartphone, tablet or notebook computer, it can deliver 1cm 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-10cm real-time accuracy anywhere in the world.



Specifications

GPS Sensor

Receiver type:	GNSS multi-frequency RTK with carrier phase
Signals Received:	GPS, GLONASS, BeiDou, Galileo and QZSS
Channels:	372 total, parallel tracking
Number of tracked satellites:	12 GPS (15 when no SBAS) 12 GLONASS 22 BeiDou 15 Galileo (future firmware) 15 QZSS (future firmware)
SBAS Support:	3 Satellite parallel tracking WAAS/EGNOS/MSAS/GAGAN (with SBAS ranging)
Update rate:	1Hz Default, optional 10Hz and 20Hz
RTK Accuracy:	1cm ¹ + 1ppm Horizontal
SBAS Accuracy:	<30cm HRMS ¹
Autonomous Accuracy:	1.2 meters HRMS ¹
Cold start:	< 60 sec typical (no almanac or time)
Reacquisition:	< 1 sec
Max speed:	1,850 kph / 999 knots / 1,150 mph
Max altitude:	18,288 meters / 60,000 ft

Communication

Port:	Bluetooth, USB 2.0
Bluetooth Transmission:	Class 1, 300m typical range ² , up to 1km
Frequency:	2.400 - 2.485 GHz
Fully 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
GPS Status LEDs:	Power, GNSS, DGNSS, DIFF, Bluetooth
Battery Status LED:	5 LED Indicator

Power

Battery type:	Field replaceable, rechargeable Lithium-Ion pack. Rechargeable inside unit or separately
Battery life:	9+ hours ³ (without Atlas™ activated)
Charging time:	4 hours (vehicule charger available)

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



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Mechanical

Enclosure Material:	Xenoy
Enclosure Rating:	Waterproof, IP-67
Immersion:	30cm, 30 minutes
Dimensions:	12.5 x 8.4 x 4.2 cm (4.92 x 3.3 x 1.65 in.)
Weight:	372g (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):	29dB ±2dB
Noise Figure:	2.5dB Max
Voltage:	+4.5 to +15 VDC
Connector:	SMA female
Dimensions:	26.6 mm H x 66.3 mm D (0.86 in H x 2.6 in D)
Weight:	165 g (0.363 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
L1/L2, L-Band GNSS Antenna	Antenna Mounting Plate


Field Activated Options

10Hz, 20Hz Output Rates
Galileo, QZSS future options

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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