



Arrow 300+ Extreme Flexibility, Affordability, and Accuracy for Work in Extreme Environments

The Arrow 300+® is a powerful, device-agnostic, survey-grade receiver supporting all major GNSS constellations (e.g., GPS, GLONASS, Galileo, BeiDou, QZSS, IRNSS) and triple-frequency tracking for faster, high-performance fixes. With compatibility across RTK networks, CORS, base stations, SBAS, and optional Atlas® subscriptions, the Arrow 300+ delivers extreme survey-grade accuracy in real time, anywhere in the world. Even when your RTK connection drops, the Arrow 300+ keeps you working with proprietary SafeRTK®, allowing you to stay productive until you regain connectivity. The Arrow 300+ supports Android™, iOS®, and Windows® smartphones and tablets, works with any third-party mobile apps, and includes access to the free Eos Tools Pro GNSS monitoring app. When you need to blend performance, accuracy, and flexibility, look no further than the Arrow 300+.

Works Seamlessly with Any Mobile GIS App

Mobile GIS software evolves quickly, but with the Arrow 300+, you'll never be locked into outdated hardware or software. This versatile GNSS receiver delivers 1 cm RTK accuracy to any app on your smartphone or tablet, including ArcGIS® Field Maps, Survey123, all other third-party apps, and even any proprietary app your team has developed. Meanwhile, the free Eos Tools Pro monitoring app supports all your Eos GNSS metadata and solutions.

Maximum Satellite Coverage, Maximum Confidence

The Arrow 300+ is built for professionals who demand top-tier GNSS performance in any environment. With support for all global satellite constellations (e.g., GPS, GLONASS, Galileo, BeiDou, QZSS, IRNSS) and any regionally available RTK source, the Arrow 300+ delivers 1 cm real-time accuracy. And when your RTK connection drops, the Arrow 300+ has you covered: SafeRTK® automatically activates in the background, so you can continue collecting high-accuracy data for up to 20 minutes.

Do you need to work in an area without RTK coverage? The Arrow 300+ supports optional Atlas subscription services so you can acquire high accuracy even in locations without RTK or Internet.

ARROW 300+®

Arrow Series®

for Ultimate Real-Time Accuracy Anywhere



Save paper!
Scan QR for PDF

Arrow 300+ Key Features:

- Triple-Frequency, All-Constellation GNSS Receiver
- Supports 1 cm Survey-Grade Accuracy in Real Time with RTK Corrections
- Includes SafeRTK® for High-Accuracy During Temporary Signal Loss
- Optional Atlas® Subscriptions Available for High Accuracy in Areas without RTK
- Compatible with All Mobile GIS Software/Apps
- iOS®, Android™, Windows® Compatible
- Includes External Antenna for Variety of Field Mounting Options
- Long-Lasting 11+ Hour Battery Life
- Dustproof, Waterproof, Rugged



Packed with Power, Ready for the Field

The Arrow 300+ sets the benchmark for flexibility and performance in the field. Whether you're using a smartphone, tablet, or notebook, it delivers 1 cm real-time accuracy when connected to any RTK correction source. No RTK? No problem! Support for optional Atlas subscription service ensures you will be able to work in even remote environments or those without Internet or cellular service.

The Arrow 300+ has a separated-antenna design for unmatched versatility: Mount it to a vehicle, backpack, high-visibility vest, chestpack, or range pole to suit your workflow. With a powerful all-day lithium-ion battery and a rugged, weatherproof build, the Arrow 300+ is engineered to keep pace with your crews—no matter the conditions, no matter the terrain.

Specifications

GPS Sensor

Receiver Type:	Triple-Frequency, All-Constellation GNSS RTK Receiver with 800+ Channels
GNSS Signals Received:	GPS: L1CA, L1P, L1C, L2P, L2C, L5 GLONASS: G1, G2, G3 Galileo: E1BC, E5a, E5b, E5(AltBOC) BeiDou: B1i, B2i, B3i, B1C, B2A QZSS: L1CA, L2C, L5 IRNSS: L5
SBAS Support: L-Band (Atlas®) Support: Update Rate: RTK Accuracy:	3-Channel, Parallel Tracking (with SBAS Ranging) 1 Channel 1 Hz Default 8 mm ¹ + 1 ppm Horizontal 2 cm ¹ + 1 ppm Vertical (RMS)
Atlas Accuracy:	H10: 4 cm HRMS ¹ H30: 15 cm HRMS ¹ H50 (Basic): 30 cm HRMS ¹
SBAS Accuracy:	< 30 cm HRMS ¹ < 60 cm 2DRMS ¹
Autonomous Accuracy: Cold Start: Reacquisition Time: Maximum Speed: Maximum Altitude:	1.2 m HRMS ¹ < 60 Seconds Typically (No Almanac or Time) < 1 Second 1,850 kph (1,150 mph, 99 knots) 18,288 m / 60,000 ft

Communication

Port:	Bluetooth®, USB 2.0, Serial
Bluetooth Transmission:	Class 1, 300 m Typical Range ² , up to 1 km
Bluetooth Frequency:	2.400 - 2.485 GHz
Fully Bluetooth Pre-Qualified:	Dual-Mode Bluetooth 4.2 BD/EDR – BLE (v5.1 Tested)
Supported Bluetooth Profiles:	SSP, iAP
Data I/O Formats:	NMEA 183, RTCM SC-104, Binary
Output Datum:	Autonomous: WGS-84 (Latest Revision) SBAS and Atlas: ITRF (Current Year Epoch) RTK: Same as RTK Base
Raw Measurement Data:	Binary, RINEX
Correction I/O Protocol:	RTCM 2.X, 3.X, MSM, Proprietary Binary
GPS 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 (via Serial Port)
Event Marker Input:	MOS, Active Low, Falling Edge Sync, 10 kΩ, 10 pF Load (via Serial Port)

Power

Battery Type:	Field Replaceable, Rechargeable Lithium-Ion Pack
Battery Autonomy:	11+ Hours ³
Charging Time:	4 Hours

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; Designed to Meet IP-67
Immersion:	30 cm, 30 Minutes
Dimensions (cm):	12.5 cm x 8.4 cm x 4.2 cm
Dimensions (inches):	4.92" x 3.3" x 1.65"
Weight:	372 g (0.82 lbs)
Data Connectors:	Mini USB Type B Receptacle
Antenna Port:	SMA Female

Antenna

Impedance:	50 Ohms
Gain (No Cable):	27 dB (± 2 dB)
LNA Noise Figure at 25°C:	2.5 dB Typical
Voltage:	+2.5 to +16 VDC
Dimensions (mm):	68 mm Diameter, 30 mm Height
Weight:	170 g (0.37 lbs)
RF Connector:	SMA Female
Operating Temperature:	-40°C to +85°C (-40°F to +185°F)
Humidity:	Waterproof

Standard Accessories

Lithium-Ion Battery Pack	Pole Bracket and Clamp
12 VDC Power Supply	Hard-Shell Carrying Case
USB Cable	Antenna Cable
GNSS Antenna	Antenna Mounting Plate

Optional Activations and Accessories

10 Hz, 20 Hz, or 50 Hz Output Rate
Spare Arrow Series Battery Pack
Atlas Satellite Correction Service
Vehicle Charger

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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