

Arrow Series® vs. Skadi Series™

Choosing the Right GNSS Solution

*A practical guide for geospatial professionals
getting started with Eos GNSS receivers.*



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INTRODUCTION:

Choosing Between the Arrow Series® and Skadi Series™

When you're evaluating high-accuracy GNSS receivers from Eos Positioning Systems® (Eos), one of the first decisions you will make is whether the Arrow Series® or Skadi Series™ is a better fit. Each series is built around a different philosophy, which impacts which receiver will work best for your environment, your team, and the way you perform field work.

The Arrow Series®



The Arrow Series® is a traditional GNSS platform built around an external-antenna design. This design gives you maximum flexibility in how and where the GNSS antenna is mounted: on a range pole, on a vehicle, in a backpack or vest, in a chest pack, or even on a hardhat. Arrow Series® is typically a better match when users prefer a traditional, no-frills field workflow that ekes out the maximum value per dollar spent. The Arrow Series® has a longstanding track record of performance, with tens of thousands of deployments worldwide.

The Skadi Series™



The Skadi Series™ is built as was designed to be the next-gen evolution of Eos products that focuses on sensor fusion: GNSS, IMU, LiDAR, and laser. Along with an integrated antenna, Skadi receivers combine a powerful GNSS engine with an ergonomic handheld form factor. They also offer the most robust and affordable tilt compensation for GIS users at the time of publishing.. Moreover, where handheld RTK is desired, the cutting-edge Skadi Smart Handle™ accessory draws on an integrated LiDAR sensor system to deliver powerful range-pole-free accuracy.

Choosing Between Arrow and Skadi

The following pages will help you understand the key differences between Arrow and Skadi receiver models. However, we encourage you to have a discussion with one of our expert representatives in order to confirm the best choice for your needs. Our global team of authorized representatives is happy to help you evaluate your requirements, options, and key considerations.

With that in mind, let's compare the key features of each series ...



Core Features of Arrow Series®



Core Features of Skadi Series™



Mobile Device Support: Supports all iOS®, Android™, or Windows® devices

Transmission: via Bluetooth®, serial port or USB port

Third-Party App Support: Supports all third-party mobile, GIS, and surveying apps

Environment: Rugged, waterproof, dustproof

Battery Pack: Field-swappable

Warranty: 2 years

Tech support: Included, email support@eos-gnss.com

Software Included: Eos Tools Pro app, various Eos utilities

(no data-collection app)

Solutions Included: Eos Laser Mapping™, real-time orthometric heights, Eos Locate™, Eos MDM Configurator™

Maintenance Fees: None

Subscription: Never required (optional Atlas® subscriptions available)

External Antenna:

Included for versatile mounting.
No option for integrated antenna.

Integrated Antenna:

For cable-free work.
May be used with an optional external antenna.

Optional Hardware Add-Ons:

Eos Bridge™

Optional Hardware Add-Ons:

All models: Eos Bridge™.
Some models: Skadi Smart Handle™, Skadi Tilt Compensation™
(requires RTK)

Included Accessories:

External antenna, battery power supply, antenna cables (based on model),
basic field-mounting accessories (based on model)

Included Accessories:

Skadi Standard Handle™, Skadi pole mount, Skadi phone and tablet
mounts, Skadi hand and wrist strap, 20-watt USB-C quick-charging power
block charger with USB-C cable

Eos Tools Pro Requirements:

Not required for use with the Arrow 100+®.
Required for any RTK workflows and Eos solutions.

Eos Tools Pro Requirements:

Not required for use with the Skadi 100™.
Required for Skadi Smart Handle™, Skadi Tilt Compensation™, RTK
workflows, and Eos solutions.



Learn More About
Skadi Tilt Compensation™



Learn More About
the Skadi Smart Handle™



Browse
All Accessories

Submeter Models

Arrow 100+®



Skadi 100™



Single Frequency (L1) GNSS

Supported GNSS Constellations: GPS, GLONASS, Galileo, BeiDou, & QZSS

SBAS Accuracy: 30-60 cm where SBAS is available

Atlas® Support: Optional subscription for 30–50 cm accuracy worldwide where no SBAS is available

No Connectivity Requirement

Eos Tools Pro: Recommended but not required for SBAS; required for Atlas®

Key Features:

- **Arrow Series® Core Features**
- **Battery Life:** 18+ hours
- **Included Accessories:** Antenna ballcap and receiver belt pouch
- **Optional Accessories:** Variety of field mounts, cables, and more

Key Features:

- **Skadi Series™ Core Features**
- **Battery Life:** 13+ hours
- **Included Accessories:** Skadi Standard Handle™ for handheld configuration and Skadi pole mount for range pole configuration
- **Optional Add-Ons:** External antenna and more

When We Recommend Arrow 100+®

Choose Arrow 100+® when submeter accuracy is sufficient, you work offline, you value utmost affordability, and you want the flexible mounting options of an external GNSS antenna.

When We Recommend Skadi 100™

Choose the Skadi 100™ when submeter accuracy is sufficient, you value affordability, you work offline, and you **prefer an integrated antenna**.

What Customers Say:

"The integration of the Arrow 100+ with Survey123 and Field Maps has been crucial for updating the network assets. This proved to be the most effective and cost-efficient option for our client to create an accurate digital twin of their electric system."

Clara Abellan

Chief Operating Officer, NimbusTech | Guanacaste, Costa Rica

What Customers Say:

"It's been a couple of months since we received the Skadi 100 receivers, and it's going really well. The fact that you can use it with any software and there's not much you need to do to use it — that was the real thing that attracted me. It's really flexible and really simple. So I can give the units to the people I've been training and say, 'OK, off you go!'"

Gavin Brooksbank

Senior Engineer, Sheffield City Council | England, United Kingdom



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Dual-Frequency Models

Arrow 200+®



Dual Frequency (L1/L2) GNSS

Supported GNSS Constellations: GPS, GLONASS, Galileo, BeiDou, & QZSS

SBAS Accuracy: 30-60 cm where SBAS is available

Skadi 200™



RTK Accuracy: 8 mm + 1 ppm horizontal; 1.5 cm + 1 ppm vertical

Connectivity: Required for RTK

Eos Tools Pro: Required for RTK

Key Features:

- **Arrow Series® Core Features**
- **Battery Life:** 14+ hours
- **Included Accessories:** Pole mount for antenna and receiver
- **Optional Accessories:** Variety of field mounts, cables, and more

Key Features:

- **Skadi Series™ Core Features**
- **Battery Life:** 11-13+ hours
- **Included Accessories:** Skadi Standard Handle™ for handheld configuration and Skadi pole mount for range pole configuration
- **Optional Add-Ons:** Skadi Tilt Compensation™, Skadi Smart Handle™, external antenna, and more

When We Recommend Arrow 200+®

Choose Arrow 200+® when you want an entry-level RTK receiver **with the versatility of an external antenna** for diverse mounting options.

When We Recommend Skadi 200™

Choose the Skadi 200™ when you want an entry-level RTK receiver **with the option to add tilt compensation and/or the Skadi Smart Handle™ to maximize safety and field productivity.**



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Triple-Frequency Models

Arrow 300+®



Triple Frequency (L1/L2/L5) GNSS

Supported GNSS Constellations: GPS, GLONASS, Galileo, BeiDou, QZSS, & IRNSS (L5)

SBAS Accuracy: 30-60 cm where SBAS is available

RTK Accuracy: 8 mm + 1 ppm horizontal; 2 cm + 1 ppm vertical

Key Features:

- **Arrow Series® Core Features**
- **Battery Life:** 11+ hours
- **Included Accessories:** Pole mounts for antenna and receiver
- **Optional Accessories:** Variety of field mounts, cables, and more

When We Recommend Arrow 300+®

Choose Arrow 300+® when you need productivity RTK accuracy in difficult environments, leveraging triple frequency GNSS.



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Skadi 300™



SafeRTK®: Included to help maintain RTK accuracy during brief losses of connectivity in the field

Connectivity: Required for RTK

Atlas® Support: Optional satellite-based corrections ranging from 4–50 cm accuracy worldwide

Eos Tools Pro: Required for RTK

Key Features:

- **Skadi Series™ Core Features**
- **Battery Life:** 8-9+ hours
- **Included Accessories:** Skadi Standard Handle™ for out-of-the-box usability and Skadi pole mount
- **Optional Add-Ons:** Skadi Tilt Compensation™, Skadi Smart Handle™, external antenna, and more

When We Recommend Skadi 300™

Choose the Skadi 300™ when you need high productivity RTK accuracy in difficult environments, and **you would like the option to add tilt compensation and/or the Skadi Smart Handle™ to maximize safety and field productivity.**



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All-Frequency Models

Arrow Gold+®



All-Frequency GNSS: Including Galileo E6/ALTBOC, BeiDou B3, QZSS LEX, and more

Supported GNSS Constellations: GPS, GLONASS, Galileo, BeiDou, QZSS, & IRNSS (L5)

SBAS Accuracy: 30-60 cm where SBAS is available

RTK Accuracy: 8 mm + 1 ppm horizontal; 2 cm + 1 ppm vertical

Connectivity: Required for RTK

Skadi Gold™



SafeRTK®: Included to help maintain RTK accuracy during brief losses of connectivity in the field

Atlas® Support: Optional satellite-based corrections ranging from 4–50 cm accuracy worldwide

Galileo HAS Support: Free, world-wide satellite-based corrections delivering 10 cm (4 inch) accuracy

Eos Tools Pro: Required for RTK

Key Features:

- All GNSS frequencies and constellations
- Maximum RTK GNSS performance
- All Arrow 300+® Key Features
- Galileo HAS Support

Key Features:

- All GNSS frequencies and constellations
- Maximum RTK GNSS performance
- All Skadi 300™ Key Features
- Galileo HAS Support

When We Recommend Arrow Gold+®

Choose the Arrow Gold+® when you want the highest possible performance that leverages all GNSS frequencies and constellations in the most challenging environments, and access to free global decimeter corrections.

When We Recommend Skadi Gold™

Choose the Skadi Gold when you want the highest possible performance that leverages all GNSS frequencies and constellations in the most challenging environments, includes free global decimeter corrections **and you would like the option to add tilt compensation and/or the Skadi Smart Handle™ to maximize safety and field productivity.**

What Customers Say:

"There aren't any RTK networks in Antarctica. That sent us looking for the Arrow Gold+® and Galileo HAS corrections. When we found these, we realized we had a possible solution."

Kevin Wilcox

Research Scientist, Ocean Mapping Group | South Shetland Islands, Antarctica

What Customers Say:

"At EMWD, safety is always our top priority. With the Skadi, our crews can capture asset data from a safe distance, such as using a laser instead of working close to a trench. The smart handle allows our technicians to map valves in intersections without initiating traffic control, keeping both our team and the public safe while maintaining efficiency."

Andrea Regalado

Enterprise GIS Manager, Eastern Municipal Water District | California, United States



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AT-A-GLANCE:

Eos GNSS Receiver Comparison Chart

	 Arrow 100+®	 Skadi 100™	 Arrow 200+®	 Skadi 200™	 Arrow 300+®	 Skadi 300™	 Arrow Gold+®	 Skadi Gold™
GNSS Frequencies:	Single Frequency		Dual Frequency		Triple Frequency		All Frequency	
Supported GNSS Constellations:	GPS, GLONASS, Galileo, BeiDou, QZSS		GPS, GLONASS, Galileo, BeiDou, QZSS		GPS, GLONASS, Galileo, BeiDou, QZSS, IRNSS (L5)		GPS, GLONASS, Galileo (including E6), BeiDou (including B3), QZSS, IRNSS (L5)	
Supports SBAS? <i>Free, regional submeter satellite corrections</i>	✓		✓		✓		✓	
Supports RTK? <i>Regional centimeter-level corrections</i>	✗		✓		✓		✓	
Supports Atlas®? <i>Global satellite corrections for 4-50 cm accuracy</i>	✓		✗		✓		✓	
Supports Galileo HAS? <i>Global free satellites corrections source for decimeter (~4 inch) accuracy</i>	✗		✗		✗		✓	
SafeRTK® Included?	✗		✗		✓		✓	

	 Arrow 100+®	 Skadi 100™	 Arrow 200+®	 Skadi 200™	 Arrow 300+®	 Skadi 300™	 Arrow Gold+®	 Skadi Gold™
Battery Life	18+ Hours	13+ Hours	14+ Hours	11-13 Hours	11+ Hours	8-9 Hours	11+ Hours	8-9 Hours
Supports Skadi Tilt Compensation™?	✗		✗	✓	✗	✓	✗	✓
Supports Skadi Smart Handle™?	✗		✗	✓	✗	✓	✗	✓
Antenna	External No option for integrated	Integrated Optional external antenna	External No option for integrated	Integrated Optional external antenna	External No option for integrated	Integrated Optional external antenna	External No option for integrated	Integrated Optional external antenna
Best for:	Submeter GNSS		Entry-Level RTK		Surveying, Engineering, Utilities		Surveying, Engineering, Utilities, Global Disconnected Environments	



View the
Expanded Web Chart

Ready to Find Your Best Fit?

Eos offers the most diverse GNSS receiver product line in the industry, with eight models to choose from depending on your performance requirements, ergonomics, and budget. This allows you to precisely select the GNSS receiver that is the correct fit for you.

Following are some of the criteria to consider when selecting a GNSS receiver:

- 1. Productivity:** How fast can you perform field work? RTK is the fastest and most accurate GNSS technology. Adding Skadi Tilt Compensation and the Skadi Smart Handle makes it even faster.
- 2. Safety:** Safety in the field is a top priority. With the Skadi Smart Handle, you can stay out of the road, out of trenches, and out of danger.
- 3. Workflow:** Your GNSS receiver should accommodate all mobile devices and flexible workflows to be able to evolve with your organization's needs.
- 4. Ergonomics:** Handheld configuration? Range pole configuration? Field vest configuration? Vehicle mounted? Determine which setups your crews are most likely to use and ensure this is available to them.
- 5. Technical Support:** Can you reach a live support person who is eager to help you solve any challenge you encounter?
- 6. Budget:** Remember to consider the total cost of ownership. A GNSS receiver might be inexpensive at first but become expensive to operate and maintain (e.g., daily/monthly subscription, annual maintenance). Also consider the efficiency of the GNSS receiver. If a GNSS receiver is inexpensive to purchase but requires lots of field time to process positions, it can wind up costing you more than purchasing a higher-quality GNSS receiver from the get-go.



This guide is meant to serve as a starting point as you explore the options available to you. If you are ready to discuss or request a quote on specific products, our team is here to help. We work every day with utilities, municipalities, engineering firms, survey groups, natural resource managers, and other organizations to find the best solution for each job. We understand how GNSS fits into real-world workflows — and we're happy to walk through your requirements, answer questions, and help you identify the best path forward.

When you reach out to our team, we'll connect you with your local representative, who can provide additional information and set a time to discuss your needs. We're here to help you succeed. Take the first step by contacting Eos Positioning Systems:

Sales: Info@eos-gnss.com | **Support:** Support@eos-gnss.com



Contact
Us Online

www.eos-gnss.com



About Eos Positioning Systems®

Eos Positioning Systems®, Inc., (Eos) is a leading global designer and manufacturer of high-accuracy GNSS receivers for GIS and mapping applications. Founded in 2014 with a mission to make high-accuracy location technology accessible to all, Eos offers GNSS solutions that are easy to use, affordable, and compatible with any device or software. Flagship Eos GNSS product lines include the Skadi Series™ and Arrow Series® plus models, which provide high-accuracy location data to any device or app. Eos is an Esri Gold Partner.

Learn more at www.eos-gnss.com.



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