



# EOS BRIDGE™

*Bridging the gap between professional sensors and mobile mapping systems*

## Eos Bridge™: Make any instrument Bluetooth® compatible to iOS

*Are you ready to bridge the gap between mobile mapping on iOS and professional instruments? As iOS devices gain popularity among field crews, demand is rising for smartphones and tablets to interface with professional instruments and sensors. The Eos Bridge™ is the world's first device capable of making this connection. The Eos Bridge™ combines the power of survey-grade mapping from Arrow Series® GNSS receivers and GIS apps with the professional measurements of third-party instruments and sensors.*

### Convenient, Portable and Rugged

With its long-lasting battery, the Eos Bridge™ delivers days of continuous use on a single charge. And thanks to its lightweight design, the Eos Bridge™ can easily be stored in a pocket, clipped to a belt, or attached directly to any instrument. The Eos Bridge™ is also rugged and waterproof, so you can confidently take it to the harshest environments.

### Connect with Legacy-Bluetooth® Instruments

Have you ever wished your existing laser rangefinder, utility locator — or any other sensor — would automatically send data to your mobile mapping solution? The days of wishing are over. With the Eos Bridge™, simply pair any legacy instrument to your iOS device (while connected to an Arrow GNSS receiver), and the Eos Bridge™ takes care of the rest. Measurements from your professional instruments will flow directly to iOS, where you can capture them in a GIS app with high-accuracy locations from your Arrow GNSS receiver.

### Connect with Serial Port

No legacy Bluetooth® module? No problem. Instruments and sensors can also connect to the Eos Bridge™ via a serial port to achieve the same results. Choose this option to use the Eos Bridge™ with not only iOS devices, but also Android and Windows smartphones and tablets.

### Key Features:

- Transforms legacy Bluetooth® instruments and sensors into iOS-compatible devices.
- Converts non-Bluetooth® instruments and sensors into iOS-compatible devices via serial port.
- Battery-powered. Rechargeable using standard USB.
- Palm sized, easily fits in a pocket or attaches to a belt or your instrument.



## Made by Bluetooth® Pioneer Eos Positioning Systems

Eos has been pioneering Bluetooth® technology for iOS devices since its founding days. The Eos Arrow 200® GNSS receiver was the world's first iOS-Bluetooth® compatible GNSS receiver to provide RTK accuracy to iPads and iPhones. With decades of experience in this field, Eos is pleased to offer customers innovative products, like the Eos Bridge™.

# Specifications

## Communication

|                 |  |
|-----------------|--|
| Ports:          | Bluetooth® Dual Mode Compliant<br>USB 2.0 (Programming)<br>RS-232 Serial |
| Status LEDs:    | Power, Bluetooth® BR/EDR,<br>Bluetooth LE, Charging Status               |
| Battery Status: | 5-LED Indicator  |

## Bluetooth® Features

|  |   |
|--|---|
| Bluetooth® Transmission <sup>1</sup> : | Class 1, 200m LoS range                                     |
| Frequency:                             | 2.400 - 2.485 GHz   |
| Fully Bluetooth® Qualified:            | Bluetooth® 4.1 Dual Mode                                    |
| Supported Connections::                | BR/EDR, BLE   |
| TX Power:                              | +12 dBm with Bluetooth® BR/EDR<br>+8 dBm with Bluetooth® LE |
| RX Sensitivity:                        | -96 dBm   |

## Power

|                               |  |
|-------------------------------|--|
| Battery Type:                 | User replaceable 2600mAh<br>Lithium-Ion cell |
| Battery Autonomy <sup>2</sup> | 48+ hrs on a single charge                   |
| Charging Time:                | 4 hours via USB port                         |

## 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      |



Eos Positioning Systems Inc.  
Terrebonne (Quebec), Canada  
Tel: (450) 824-3325  
[www.eos-gnss.com](http://www.eos-gnss.com) | [info@eos-gnss.com](mailto:info@eos-gnss.com)

## Mechanical

|                   |   |
|-------------------|---|
| Enclosure Rating: | Waterproof, IP-67                       |
| Immersion:        | 30cm, 30 minutes                        |
| Dimensions:       | 9.5 x 6.9 x 3.1 cm (3.7 x 2.7x 1.2 in.) |
| Weight:           | 165 g (0.36 lb)                         |
| USB Connector:    | Mini USB Type B Receptacle              |
| Serial Connector: | 5-pin Circular                          |

## In the Box

|                           |                              |
|---------------------------|------------------------------|
| Eos Bridge™               | Belt Clip                    |
| Integrated Li-Ion Battery | Strap Loop                   |
| USB Charger               | Serial DB-9 Cable (Optional) |



### NOTES:

1. Transmission in free space
2. Lithium-Ion battery performance degrades below -20°C (-4°F)

© Copyright May 2021, Eos Positioning Systems Inc. All rights reserved. Specifications subject to change without notice. Arrow Series® is a registered trademark of Eos Positioning Systems Inc., Canada. The Bluetooth® trademarks are owned by Bluetooth SIG, Inc, U.S.A. All other trademarks are the property of their respective owners.

Made in Canada

Authorized distributor