



**Asset Pro Advantage  
Telematics**

# Introduction to Battery-Powered Asset Tracking

Application Guide



Historically, asset tracking was expensive and limited in what you could track. With Digital Matter devices, it is now more accessible for businesses to track more of the assets that matter!

### RANGE

We offer the largest range of battery-powered asset tracking devices with more connectivity options.

### PERFORMANCE

Our quality engineering and expertise in low-power design means our devices perform better and last longer.

### AGILITY

Our teams are agile, allowing us to innovate and integrate faster to support our partners as they go-to-market.



## Benefits



Location and Traceability



Recovery and Theft Prevention



Alerts/Exception Reporting



Geofencing



Utilisation and Optimisation





## Device Features



Industry-Leading Battery Life



IP68-Rated Ultra-Rugged Housing



Multiple Installation Options



User-Replaceable Off-the-Shelf Batteries



Low Battery Alerts





## Periodic and Movement-Based Tracking



### Choose Update Frequency

Devices can be set to track periodically throughout the day and/or when movement occurs, depending on the use case



### Capture What's Needed

Get valuable tracking data when it's needed (for example, when your asset is on the move) and scale back when you don't (when the asset is stationary)



### Conserve Battery-Life

Devices enter sleep mode when stationary to conserve battery-life







## EDGE Range



### Indoor/Outdoor Asset Tracking & Management

Multiple location technologies (GNSS, Wi-Fi AP MAC Address Scanning, Cell Tower Location Fallback, and LoRaWAN Geolocation Fallback) are supported to provide seamless indoor/outdoor asset management on one device



### Cloud-Based Location Sharing

Determine location in a cloud-based solver to significantly reduce power consumption – over 5-10x lower power consumption than most other IoT asset management solutions



### Ultimate Control

Enable, disable and customize location technologies to optimize performance, select between location service providers to meet accuracy or budget requirements, and take control of reporting data





## Bluetooth® Low Energy – Track More for Less

Some battery-powered trackers also double as Bluetooth Gateway devices, enabling GPS track-and-trace with customisable condition monitoring for critical assets.

With simple integration protocols for hundreds of Bluetooth Low Energy tags, sensors, and beacons on the market, it's now faster and more affordable than ever to protect, optimise, and derive more value from the assets that matter.



# Bluetooth® Low Energy – Track More for Less



## Impact and High G-Force Detection

Receive instant alerts when, and at what locations, high-value assets or dangerous goods are mishandled during transit



## Door Open/Close Monitoring

Integrate with a variety of Bluetooth sensors to enable door open/close monitoring for tamper detections, reporting, and/or compliance



## Cold Chain Monitoring

Install Bluetooth Low Energy sensors in temperature/humidity-sensitive trucks, freezers, or packages to maintain safety and compliance



## Enhanced Fleet Management

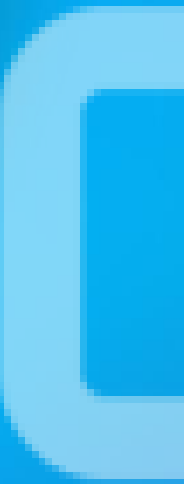
Utilise Bluetooth fuel level and fuel flow monitoring probes, axle load meters, tyre pressure and temperature sensors, and more for a robust and wear-free fleet management solution





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# Applications



Earthmovers, Attachments, Bobcats, Loaders, Tractors, Forklifts, Lighting Towers, Electronic Road Signs, Generators



### View Location & Trip History

See where your equipment is and where it has been. Easily locate across multiple worksites.



### Optimize Utilisation

Capture run-hours based on movement to understand and optimise equipment utilisation



### Prevent Downtime

Schedule preventative maintenance reminders based on usage to ensure equipment is serviced regularly



### Recover Stolen Property

Receive alerts if your equipment moves outside of designated areas. Switch to Recovery Mode in case of theft.





Pallets, Kegs, Bins, Containers, Returnable Packages, Portable Toilets, Demountables, Equipment Hire, Event Assets



### View Location & Trip History

See where your rental equipment is and where it has been. Easily locate across multiple worksites.



### Optimize Utilisation

Capture run-hours based on movement to understand and optimise rental equipment utilisation



### Prevent Downtime

Schedule preventative maintenance reminders based on usage to ensure rental equipment is serviced regularly



### Recover Stolen Property

Receive alerts if your rental equipment moves outside of designated areas. Switch to Recovery Mode in case of theft.



Skip Bins, Roro Bins, Waste containers, Commercial Bins, Shipping Containers, General Containers, Ag Bins



### View Location & Trip History

See where your bins are and where they've been. Easily locate across multiple worksites.



### Optimize Utilisation

See how many, and where your bins are located to improve productivity and churn rates



### Recover Stolen Property

Receive alerts if your bins move outside of designated areas. Switch to Recovery Mode in case of theft.



Fleets, Trucks, Buses, Cars



### View Location & Trip History

See where your vehicles are and where they've been. Easily locate across multiple worksites.



### Optimize Utilisation

Capture run-hours based on movement to understand and optimise vehicle utilisation



### Prevent Downtime

Schedule preventative maintenance reminders based on usage to ensure vehicles are serviced regularly



### Recover Stolen Property

Receive alerts if your vehicles move outside of designated areas. Switch to Recovery Mode in case of theft.





Quad Bikes, Motorbikes, Standard Bikes, E-Bikes, Scooters



### View Location & Trip History

See where your bikes are and where they've been. Easily locate across multiple worksites.



### Optimize Utilisation

Capture run-hours based on movement to understand and optimise bike utilisation



### Prevent Downtime

Schedule preventative maintenance reminders based on usage to ensure bikes are serviced regularly



### Recover Stolen Property

Receive alerts if your bikes move outside of designated areas. Switch to Recovery Mode in case of theft.





Commercial Trailers, Personal Trailers, Dollies, Caravans, Motorhomes, Boats, Jet-skis, Sports Trailers



### View Location & Trip History

See where your trailers are and where they've been. Easily locate across multiple worksites.



### Arrival & Departure Notifications

Proactively alert departments or warehouses of trailer arrivals and departures



### Prevent Downtime

Schedule preventative maintenance reminders based on usage to ensure trailers are serviced regularly



### Recover Stolen Property

Receive alerts if your trailers move outside of designated areas. Switch to Recovery Mode in case of theft.



Cattle, Sheep, Wildlife, Dogs, Endangered Species, Horses



### View Location & Movement History

See where your livestock are and where they've been. Easily locate across multiple locations



### Monitor Behavior

Analise livestock movement and paddock grazing trends to manage rotations



### Designate Virtual Boundaries

Manage activities and events across properties and paddocks with geofencing



### Theft Recovery

Receive alerts if your livestock moves outside of designated areas. Switch to Recovery Mode in case of theft.





## Device Comparisons



Remora3



Oyster3/Oyster Edge



Yabby3/Yabby Edge



## Device Comparison Table



**Remora3**



**Oyster3**



**Oyster Edge**



**Yabby3**



**Yabby Edge**

Connectivity	4G LTE-M, NB-IoT	4G LTE-M, NB-IoT	4G LTE-M, NB-IoT	4G LTE-M, NB-IoT	4G LTE-M, NB-IoT
Environment	Outdoor	Outdoor	Indoor/Outdoor	Outdoor	Indoor/Outdoor
IP68-Rated	Yes	Yes	Yes	Yes	Yes
Batteries	2 X D Lithium Thionyl Chloride (LTC)	3 X AA Lithium or Lithium Thionyl Chloride (LTC)	3 X AA Lithium	3 X AAA Lithium	3 X AAA Lithium
Battery Life (daily)	20+ Years	10+ Years	10+ Years	10+ Years	10+ Years
Battery Live (movement based)	10+ Years	6 Years	7 Years	3 Years	3.5 Years
Battery Life (hourly)	10+ Years	3.5 Years	4.5 Years	1.5 Years	2 Years
Bluetooth®	Bluetooth 5.2 Gateway	No	Bluetooth 5.2 Gateway	No	No