Introducing the Eagle 1
Our ruggedized device for location, maintenance, and GPS tracking is the industry’s most advanced tracker, offering military-grade protection from weather, water, dust, and sun.

The Eagle 1 runs on LTE Cat-M, the next-generation wireless network specifically adapted for use in machine-to-machine communications for telematics, and includes fallback to NB-IoT. The LTE Cat-M network offers higher coverage penetration, and lower power consumption, at a lower cost than any other available network.

The Eagle 1 is a 100% cloud-managed device, running on Momentum’s cloud-based IoT management tools. This means it is deployed without field-application engineering, while maintaining the highest security standards.

Momentum was built from the gravel up, by professionals, for professionals. We understand what you need in a tracking solution because we’ve been there.

The Momentum Eagle 1 is backed by a lifetime replacement warranty.
Dimensions
3.6 in x 4.15 in x 1.4 in

Weight
6.91 ounces / 196 grams / 0.43 lbs

Network Coverage
The Eagle 1 operates seamlessly across North America including Canada, Mexico, and the United States.

Communications Mode
LTE Cat-M; Frequency bands: 2/4/12
LTE Cat NB-IoT; Frequency bands: 2/4/12

SIM Access
Internal

Location Technology
A-GPS enhanced geo-location

Architecture
100% cloud-based decisioning, with firmware over-the-air updates on demand

Location Accuracy
95% of reports within 2 meter accuracy

Charging duration
3 hours to reach 90%

Compression
Industry-leading compression standards enable reduced airtime data usage, and sub 1 second time to fix from hot start

Battery Life
Expected life after disconnect from full charge: six months.

[NOTE: Battery life is determined by usage, power mode, and firmware version. If your device is not performing to specifications, please contact customersuccess@momentumiot.com so we can check the firmware version of the device.]

Installation
The Eagle 1 offers two harness options:
1. Plug-in OBD-II harness connects to diagnostic port. Suitable for: light to medium duty passenger vehicles, pickup trucks, and vans.
2. 12-Volt harness with pigtail. Suitable for direct-to-battery install on light equipment, big rigs, and heavy equipment. No diagnostics.

PowerSense™ Detection
Both OBD and 12-volt harnesses are equipped with a 3rd wire to detect auxiliary equipment use.
Recommended Environmental Practices for Electronic Equipment Design in Heavy-Duty Vehicle Applications

Bluetooth
Bluetooth Low Energy (BLE) 5 receiver.
Backward compatible to 4.0

Connectors
Rugged waterproof plastic, with standard OBD plug-in harness for behind dashboard installation

Temperature
-4 to 160 degrees Fahrenheit (-20 to 60 degrees Celsius)

Power: 12v DC
@5 mA in passive mode
@90 mA in transmit mode
@250 mA in max charging mode

OBD
100% cloud-based OBD interrogation

Authentication
Unique digital signature per device

API
Open - RESTful and Webhooks

Network Schedule
LTE Cat-M and NB-IoT are not subject to the upcoming 3G/HSPA/GPRS sunsets affecting most major telematics providers

Environmental
Dust: Protected from most dust ingress
Water: Protected from immersion between 15 centimeters and 1 meter in depth