



Momentum Eagle I

Hardware Specification
Updated December, 2021



Introducing the Eagle I

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 I 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 I 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 I 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

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

Compression

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

Charging duration

3 hours to reach 90%

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 I 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.

Shock and Vibration - SAE J1455 standard
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