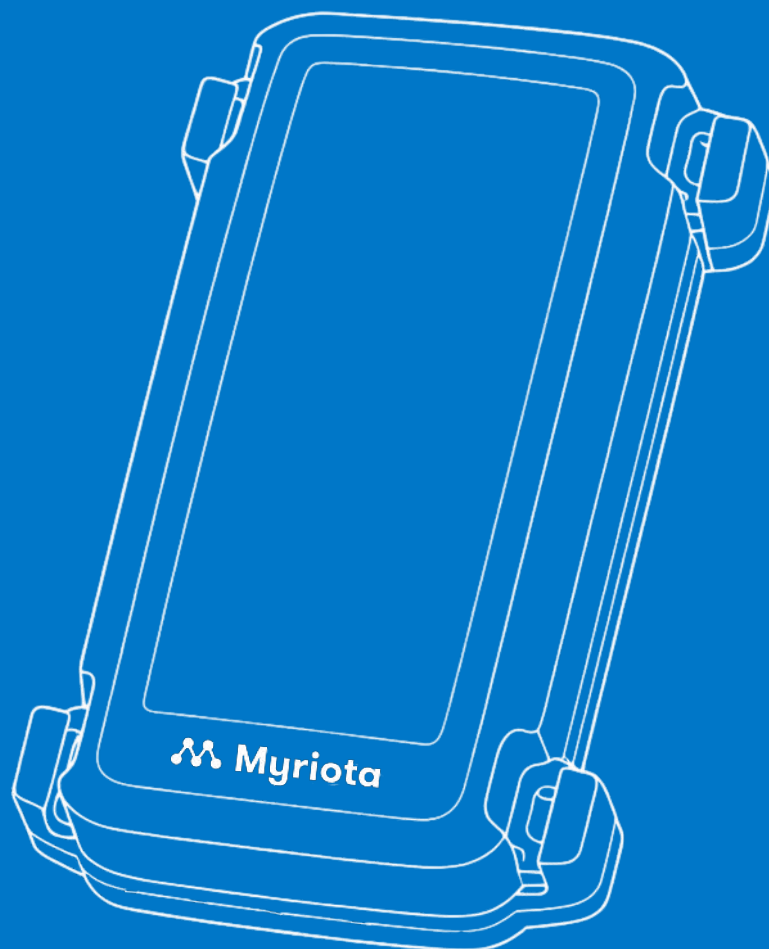


August 2026



Myriota AssetHawk™ User Guide

XAN1108-03



Revision History

Rev	Date	Description of Change
01	Jan 2026	Initial version
02	Apr 2026	Added - Bluetooth support - Device configuration
03	Aug 2026	Added - Active response tamper - Start/stop detection - Event-driven messages - Troubleshooting

Related Documentation

Find the latest versions of all Myriota documentation at support.myriota.com

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AssetHawk™ Basics

Overview

AssetHawk™ is Myriota's next-generation "Just Works" IoT tracking solution, built for reliable, global asset visibility.

It offers a rugged, low-risk, low-cost solution, giving you confidence that your assets remain connected wherever they go.

AssetHawk™ reports over the Myriota HyperPulse 5G NTN satellite network, so it works anywhere with a clear view of the sky — including places with no mobile phone coverage at all. Out of the box, it delivers location and status reporting with one-click activation and deployment.

When enabled, AssetHawk™ can collect and report data from compatible BLE beacons to monitor asset conditions.

With its ultra-low power design, AssetHawk™ runs on two AA lithium batteries, delivering years of autonomous, maintenance-free operation.

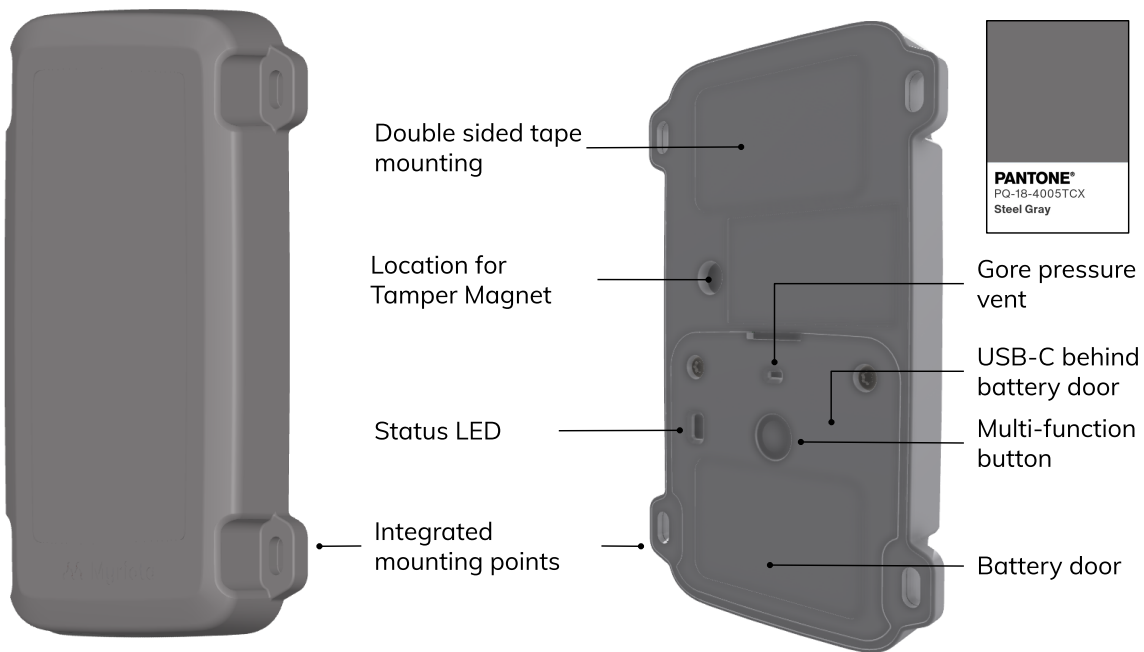
Key Features

- **Global Satellite Connectivity:** Reports over the Myriota HyperPulse 5G NTN satellite network, so your assets stay visible far beyond mobile phone coverage.
- **Long Battery Life:** Provides years of in-field lifetime with daily reporting on just two replaceable AA lithium batteries.
- **Rugged and Compact:** Features a durable, IP69K-rated, UV-resistant enclosure to survive harsh environments and elements.
- **Accurate Location Tracking:** Powered by high-precision GNSS with superior location accuracy down to a few meters.
- **BLE Sensing Capability:** Supports compatible Bluetooth Low Energy (BLE) sensors for additional asset condition monitoring.
- **Journey Detection:** Detects the start and end of each journey and automatically reports precise coordinates and timestamps.

AssetHawk™ In Depth

Device Features

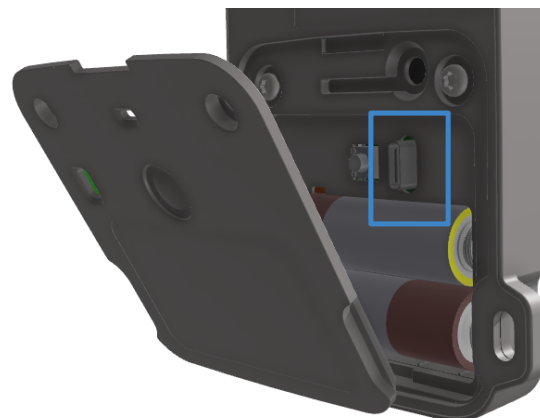
Diagram 1: AssetHawk™ Features



USB-C Port

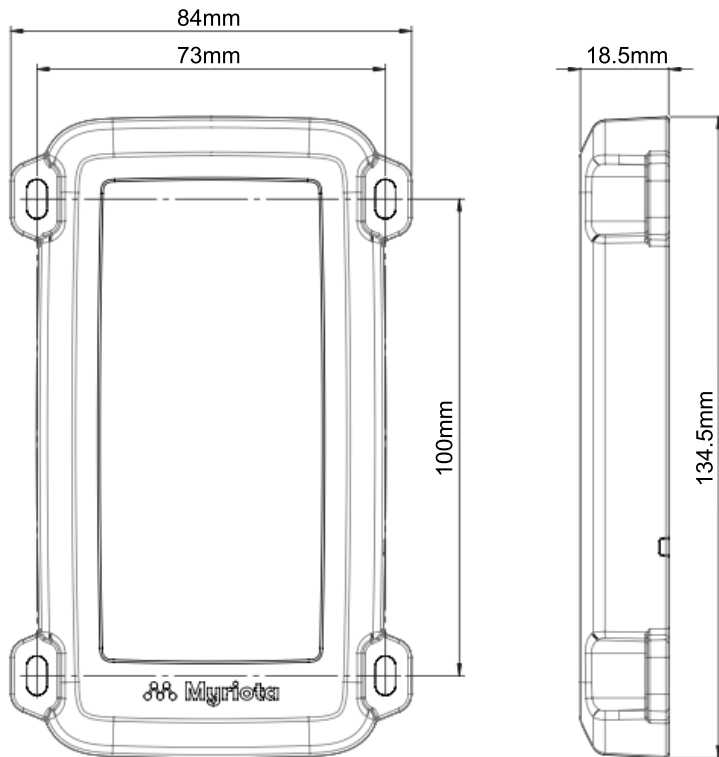
The USB-C port, located behind the battery door, is for programming only and does not support charging.

Diagram 2: USB port



Dimensions

Diagram 3: Dimensions



Weight excl batteries	0.15kg
Weight incl batteries	0.17kg

Technical Specifications

Table 1: AssetHawk™ Technical Specifications

Environmental	Operating temperature	-40°C to +60°C (-40°F to 140°F)
	IP Rating	IP69K
Connectivity	Satellite	Myriota HyperPulse 5G NTN (3GPP Rel 17)
	Terrestrial ^[1]	All major global bands for LTE-M and NB-IoT.
	Bluetooth	Bluetooth 6.0, IEEE 802.15.4-2020, 2.4 GHz transceiver
	Satellite & Terrestrial Antennas	Internal
Location	Accuracy	Up to 4m ^[2]
	Environment	Outdoor location tracking
	Constellations	GPS, GLONASS, Galileo, BeiDou
Batteries	Input Voltage	2.2V - 3.8V
	User-Replaceable Batteries ^[3]	2 x AA. *Batteries not included
	Supported Battery Types	- L91 Lithium (LiFeS2) – recommended for best performance - Alkaline – for testing only
	Battery Life Estimates	Daily location reporting – 10 years Movement-based reporting – 5 years ^[4] Hourly location reporting – 1 year
Onboard Intelligence	Adaptive Tracking	Device location reporting is configurable based on multiple criteria, including: • Fixed time interval • Movement based
	Sleep Mode	Between reporting intervals and when stationary, the device enters a low-power mode to conserve battery life.
	Message Buffering	Store messages for later reporting if the device cannot connect to the network

^[1]Future functionality accessible via software updates.

^[2]Actual performance may vary depending on device configuration, installation method, surrounding environment, availability of augmentation services, and other external factors.

^[3] Please dispose of batteries safely and responsibly.

^[4] Movement-based estimates are based on L91 Lithium batteries, 2 hours of movement, occurring 5 days a week, with location updates every 5 minutes, uploads every 30 minutes, and daily reporting when not in motion.

Getting Started

Required Items

Laptop or Desktop Computer

A laptop or desktop computer running Windows, macOS, or Linux operating systems that will be used to update your AssetHawk software.

AssetHawk Desktop App

The AssetHawk Desktop App, required to update firmware and configure your AssetHawk device, can be downloaded from the [support site](#).

USB-C Cable

A USB-C cable is required to update the software for your AssetHawk using the AssetHawk Desktop App.

Phillips-head Screwdriver

A Phillips #1 screwdriver is required to insert and remove the battery cover screws when replacing batteries or connecting to the USB-C port of AssetHawk.

Batteries

AssetHawk is not shipped with batteries.

For battery selection requirements, see the [Battery Selection](#) section.

BLE Beacons (Optional)

For applications that require additional asset condition data, AssetHawk can be used with compatible BLE beacons. AssetHawk currently supports passive scanning for battery-efficient, broadcast-only data capture and beacons using the EddyStone format. If you are unsure if your BLE beacon is supported, please raise a [support request](#).

Device Manager Onboarding

A device manager account will be automatically created when you purchase AssetHawk if you don't already have one. Follow the instructions received via email to log in to your account and reset your password.

Once logged in, you will see your AssetHawk devices registered to your account after you have received the shipping notification.

For any Device Manager-related issues, raise a [support request](#).

Battery Selection

Two AA batteries power AssetHawk™. For optimal performance and the longest in-field lifetime, Myriota highly recommends using **two AA lithium batteries**, specifically Energizer [L91 AA Lithium Batteries](#) or similar local batteries, as shown below.



Alkaline and other primary batteries with 1.5V nominal voltage are not recommended for use with the AssetHawk™.

These battery options **may not work, or only work for a short time period**. Rechargeable batteries **will not work** due to their low voltage.

Appropriate battery selection is critical to realising the longest possible device lifetime.

Diagram 4: AssetHawk™ battery requirements



The desirability of upfront cost savings from lower-quality batteries is understandable. However, their use will result in significant underperformance in expected battery life, and the operational costs of remote in-field replacement will outweigh any initial savings.



Note that Lithium-Thionyl Chloride (Li-SOCl₂) batteries, e.g. SAFT LS14500, are not supported by AssetHawk™ as these have a higher voltage of 3.6V and will damage the device and void the warranty. For any assistance with battery selection, raise a support request.

Battery Insertion

On your AssetHawk™, remove the Phillips-head battery door screws (Philips #1) and lift the battery door.

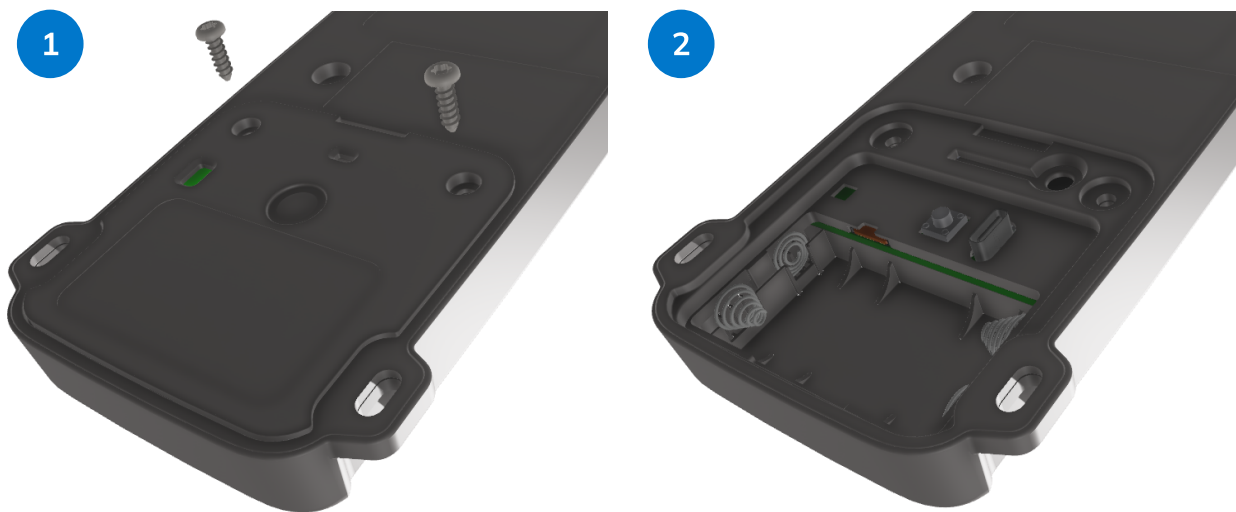
Note the + and - symbols on the holder for correct battery orientation, then insert two new batteries.

Refer to the [Updating Software](#) section if a software upgrade or configuration change is planned before deployment.

Replace the battery door and fasten it with the Phillips-head battery door screws, being careful not to over-tighten.

If the original screws are lost, do not use countersunk screws, as these will damage the plastic enclosure.

Diagram 5: Removing the AssetHawk™ battery door

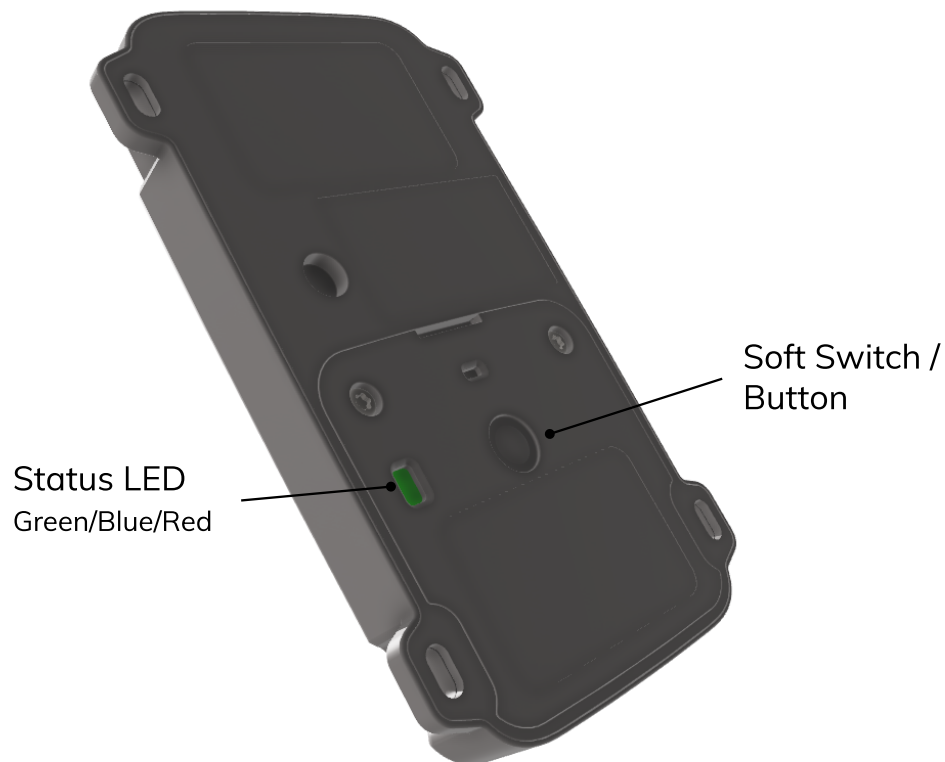


Updating Software and Configurations

Firmware and configuration updates can be performed via Myriota's AssetHawk Desktop app, available for Windows, Mac, and Linux. Please refer to the [AssetHawk Tools](#) page on the support site to download the app and its user manual, which details the firmware and configuration update procedures.

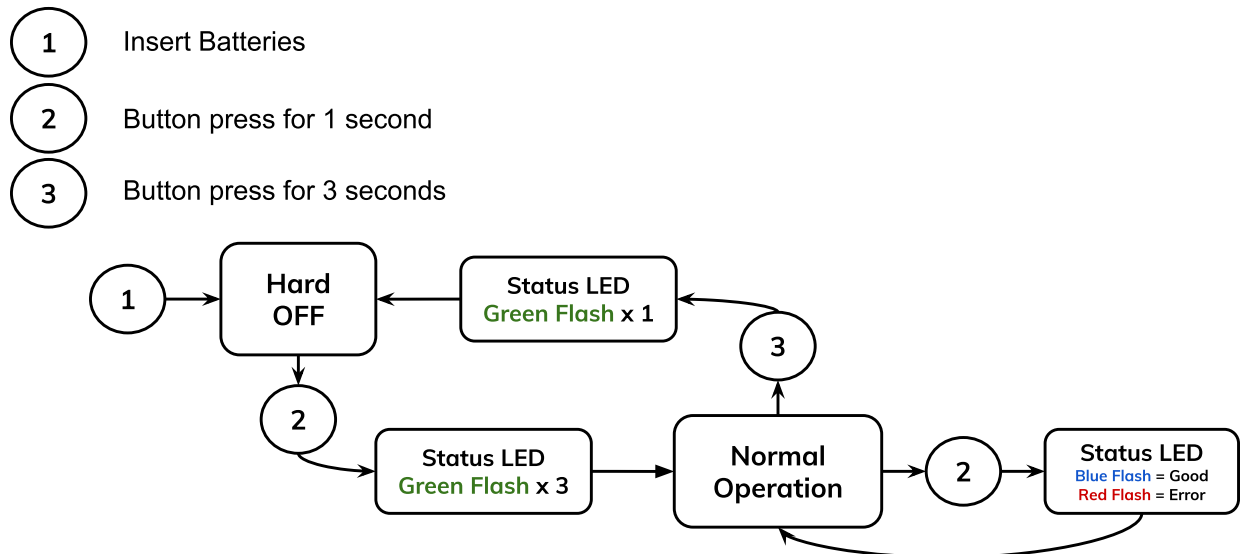
Soft Switch/Button Operation

Diagram 6: Button and Status LED



The button functions, status LED indications, and default startup sequence are illustrated in Diagram 7.

Diagram 7: Startup behaviour



When AssetHawk™ is in the Hard OFF state, it consumes minimal power and only detects button presses. During normal operation, high-power components are powered as needed, resulting in increased battery consumption.

The following table describes the behaviour of the Status LED:

Table 2: Status reporting LED

LED Indicator	Device State		
	Onboard I/Cs	Connectivity	GPS
Blue Flash Once	No issue	Obtaining a GNSS fix	No issue
Blue Flash Twice	No issue	Configured for Satellite communication	No issue
Red Flash Once	No issue	No issue	Failed to obtain a GNSS fix
Red Flash Twice	No issue	Failed to send a message via Satellite	No issue

Satellite Connectivity

AssetHawk sends its messages over the Myriota HyperPulse 5G NTN satellite network. This enables reporting from areas with no cellular coverage.

How It Works

The satellites are in fixed positions above the equator and are not on continuously. Instead, AssetHawk enters a low-power mode and wakes up at scheduled times when the satellites are on to send messages. The frequency at which the satellite is on is configurable by Myriota and varies per region. If you would like to understand more about the satellite times and message latency, please reach out to [Myriota Support](#).

This means:

- **Sampling and reporting are separate:** Message sampling occurs as per the device configuration, and messages will be reported when the satellite is available.
- **Messages are batched:** If several messages are waiting, they are typically delivered together, so data often arrives in small bursts rather than a steady trickle.
- **Message order:** There is no guarantee on the order of message delivery. Use the time and sequence number in each message to sort and de-duplicate messages.

GPS Requirements for Communication

The nature of satellite communication is that the device requires a line of sight to the satellite to send messages. A good sky view is also mandatory for the GPS to function.

AssetHawk requires GPS to:

1. Populate the location messages.
2. To find the satellite using accurate time and location.

The practical result is that if the AssetHawk cannot see the sky, it will stop reporting altogether even if it is configured to report stale locations.

AssetHawk keeps working on its last known position for up to 36 hours after it last saw GPS, assuming it has not moved. Beyond that, it stops trying to reach the satellite and goes into a very low-power sleep, waking roughly every two hours to look for GPS again. It resumes reporting automatically, with no user action, once it gets a GPS fix.

This behaviour is deliberate. Continuing to transmit when the sky is not in view significantly drains the batteries for no benefit. A device that has gone quiet in this way is **conserving battery, not faulty**, and it will come back on its own once sky view is restored.

First Satellite Connection

When AssetHawk is switched on for the first time without network information about the satellites, or after a long period out of coverage, it does not know the satellite schedule and has to search for it. Searching for the satellite schedule is called a **cold start**.

- AssetHawk searches for satellites for 65 minutes, then sleeps and listens periodically over the next 11 hours. This cycle is repeated every 12 hours.
- With a clear sky view and minimal interference, the connection can be made within the first 65 minutes.
- It may take up to 24 hours to connect for the first time.

Messages generated during this period are stored on the device and delivered once it connects.

If no messages are seen after 24 hours, refer to the [Troubleshooting](#) section or contact [Myriota support](#).

AssetHawk Message Behaviour

AssetHawk uses a combination of scheduled reporting and event-driven messages to balance battery life with timely updates.

Scheduled Reporting

Between events, AssetHawk reports its location at regular intervals:

- **Stationary:** Every 6 hours (default).
- **Moving:** Every 2 hours (default).
- **Alerted:** Every 2 hours (default) while in an active tamper state.

The motion sensor remains active at all times, including during sleep between messages. When movement is detected, AssetHawk schedules a message immediately and switches to the moving interval. When movement stops (after a configurable timeout, default: 5 minutes), it sends a Journey stop message and reverts to the stationary interval.

Note that these intervals control when AssetHawk takes a reading, not when the message arrives. Delivery still depends on the satellite availability schedule.

The First Message

After the AssetHawk is powered on, it starts a GPS fix within 60 seconds and generates its first message upon completion. If the first GPS fix fails, AssetHawk retries after 5 minutes, then 15 minutes, then 30 minutes, before settling into its normal reporting interval.

When a GPS Fix Fails

A GPS fix is given up to 2 minutes to succeed. If it fails, what happens next depends on the Send Invalid Locations configuration setting:

- **On (default):** the message is still sent, carrying the last known position with an invalid-location flag set so your platform can identify it.
- **Off:** No location message is scheduled if there was not a valid fix obtained.

Event-Driven Messages

Certain events trigger an immediate message that bypasses the standard reporting schedule:

- **Journey start:** Movement detected - schedules current location immediately.
- **Journey end:** Movement stopped - schedules current location after the stop timeout.
- **Tamper detected (Alert mode):** Device removed from mount - sends a priority message immediately, then reports at the alert interval until the tamper state clears.

A priority message is placed at the front of the message queue, so it is the first message sent, ahead of other messages already in the queue.

Journey Detection

AssetHawk detects the start and end of each journey and reports the precise GPS coordinates and timestamps for both events.

- **Journey start:** When the motion sensor detects movement, AssetHawk immediately takes a GPS fix and sends a message with the reason "motion start." The device then switches to the moving reporting interval (default: 2 hours).
- **During a journey:** The device continues reporting at the moving interval, providing periodic location updates while the asset is in transit.
- **Journey end:** When movement stops and the device detects no further motion for the configured stop timeout (default: 5 minutes), it takes a GPS fix and sends a message with the reason "motion stop." The device then reverts to the stationary reporting interval (default: 6 hours).



The stop timeout is configurable through the AssetHawk Desktop tool to suit different use cases.

Tamper Detection

AssetHawk can detect when it is removed from its mounted position when tamper detection is enabled. When mounted, a small magnet must be positioned inside the tamper magnet cavity. AssetHawk will detect that this magnet is no longer present when removed from its mounted location and a tamper event is triggered.

- The magnet must be present before the tamper event will be triggered. AssetHawk must detect the magnet and then lose it.
- Putting the magnet back does not clear the tamper. The tamper state clears only when the tamper timeout elapses (default: 24 hours).



Tamper detection relies on a magnet being positioned in the tamper magnet cavity of AssetHawk. Therefore, tamper detection is not possible if the AssetHawk Magnetic Mount is used for device installation.

Tamper detection has three modes, configurable through the AssetHawk Desktop tool:

Mode	What Happens
Off (default)	Tamper detection is disabled. The device reports as described in previous sections regardless of mount status.
Alert	The device sends an immediate priority message that will be delivered before other messages in the message queue when tamper is detected. Once the alert message is triggered, AssetHawk switches to the alert reporting interval (default: 2 hours) for elevated tracking frequency until the tamper state clears after the configurable alert timeout (default: 24 hours)
Silent	The device suppresses all message transmission while tampered. No messages are scheduled until the tamper state clears.

BLE Sensing

When enabled, AssetHawk can scan for a filtered Bluetooth Low Energy beacon and forward its data. Beacon readings are sent as separate messages from location messages.

There are two scanning modes, set with the BLE Beacon Message Sync setting:

Mode	When AssetHawk Scans
On (default)	Once after each location reading, the BLE scanning will occur. The BLE Beacon Interval configuration is ignored.

Off

BLE scanning will occur independently of location sampling. The BLE Beacon Interval configuration (default: 1 hour) determines the time between scans.

Each scan lasts up to the BLE Beacon Scan Time (default: 20 seconds) and stops as soon as the filtered beacon is seen to save battery. Scanning requires BLE Beacons to be enabled and a beacon address to be provided in the device configuration.

Factory Configuration

The default factory configuration can be changed through the AssetHawk Desktop tool to suit different applications.

Supported configuration settings include:

- Message sampling intervals (stationary, moving, and alert)
- Movement detection sensitivity and stop timeout
- Tamper detection mode and timeout
- Whether messages are sent when a GPS fix fails
- BLE sensing



A full list of settings, their ranges and their defaults is given in the **AssetHawk Configuration Variables Register**.

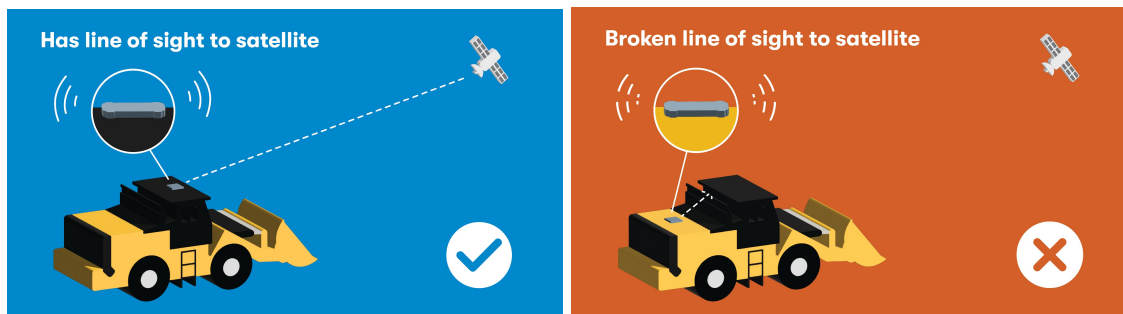
Deploy AssetHawk

Critical Deployment Considerations

Clear Satellite View

AssetHawk requires a view of the satellites, which are stationary directly above the equator, for successful communication. Furthermore, when the Asset being tracked is moving, the Satellite view will vary. Deploying with as much sky view as possible for all deployments is critical for the best communication performance.

Diagram 8: AssetHawk™ Deployment Considerations



The [Locate the Satellite](#) section describes how to ensure that AssetHawk has a clear view of the satellite at the time of deployment, so that your AssetHawk can communicate as soon as possible. This step is strongly recommended for every fixed installation, and is less critical where the asset being tracked will move, and the AssetHawk has maximum sky view.

Locate the Satellite

To ensure optimal communication performance, follow the steps below using Myriota's HyperPulse DeployAssist mobile app to locate the HyperPulse satellites at the point of install and ensure a clear line of sight to each satellite. A suboptimal deployment may significantly impact message delivery. Links to download the Android / iOS app and the user guide are available [here](#).

Mount AssetHawk

- **DO** mount AssetHawk outdoors in a secure location.
- **DO** mount the AssetHawk horizontally, with the Myriota logo facing up to the sky.
- **DO** elevate AssetHawk where possible.
- **DO** ensure AssetHawk has a line of sight to the satellite - See [Locate the Satellite](#).
- **DON'T** mount AssetHawk indoors, inside a metal container, inside a vehicle body, or below deck. The device cannot report from these locations.
- **DON'T** mount AssetHawk vertically, even if it's facing the satellite. The antenna is designed for horizontal mounting.
- **DON'T** mount AssetHawk where buildings, trees, or other obstructions block the line of sight to the satellite.
- **DON'T** mount AssetHawk near strong sources of RF or electrical interference (e.g., radios, high-voltage equipment).

Diagram 9: AssetHawk™ Mounting Orientation



Mounting Options

Magnetic Mount

Suitable for ferromagnetic surfaces, and best suited for when you need to relocate or move the device between assets. Provides 25kg of holding force - secure enough for the majority of applications.

Diagram 10: AssetHawk insertion into the Magnetic Mount



Adhesive Pads

Adhesive pad locating features have been provided on the rear face of the AssetHawk, suitable for double-sided adhesive tape. Please thoroughly clean both the AssetHawk and the mounting surface before applying tape for best results. Recommended tape size is 25 x 44mm (1.0 x 1.7 in).

Diagram 11: Adhesive Pad Mounting



Screws

The fastening points are designed for M4 bolts or 8G screws with a cap or button head. Countersunk heads will damage the unit:

Diagram 12: Screw Mounting

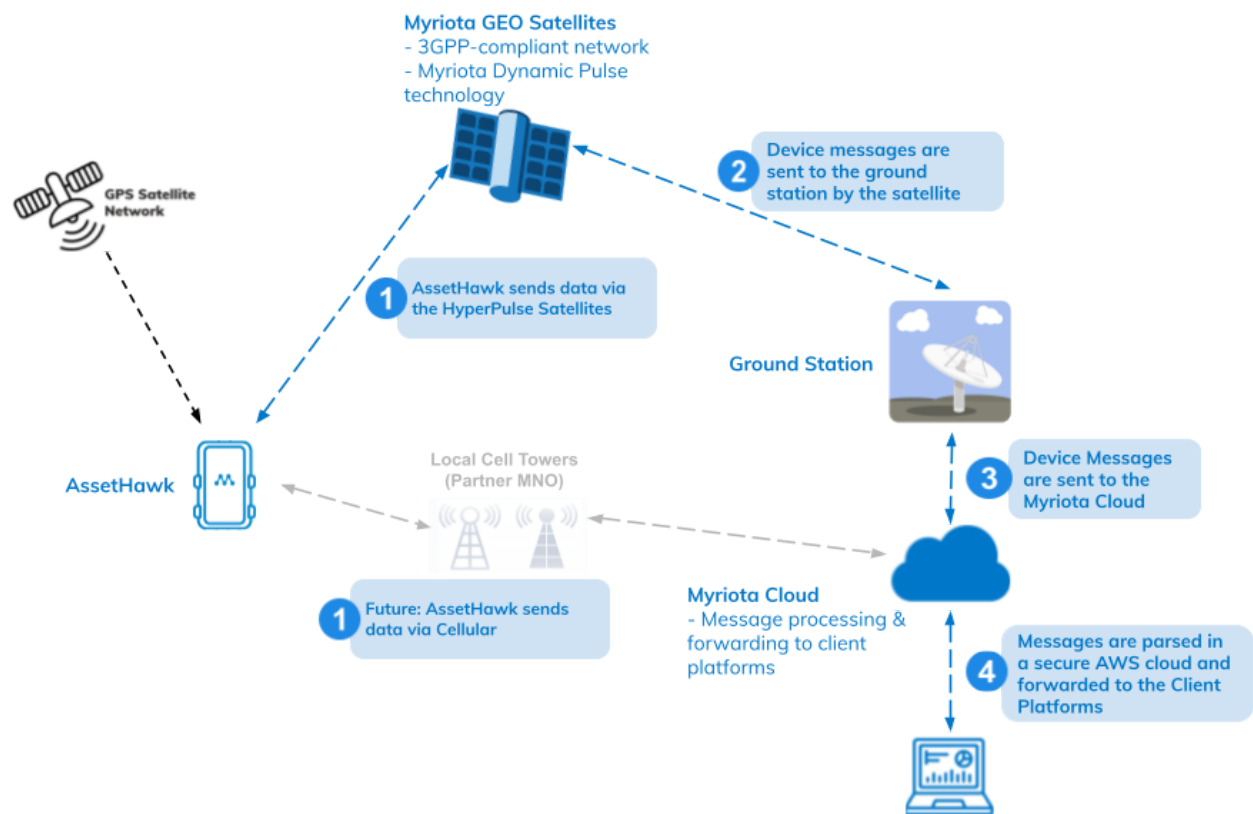


Data Visualisation

Message Communications

AssetHawk™ communicates data via the Myriota HyperPulse NTN satellite network. If you would like to understand more about the behaviour and architecture of the Myriota Network, please reach out to [Myriota Support](#).

Diagram 13: Myriota Network architecture



Visualisation Platform

AssetHawk does not include a dedicated visualisation platform and is designed to integrate with existing customer or third-party platforms that will accept the forwarded data. The format of the data forwarded to visualisation platforms by AssetHawk is further described on the [support site](#).

The platform recommended for testing device operability is TagoIO. A guide to setting up your AssetHawk device on the TagoIO platform is available on the [support site](#).

Troubleshooting

Before raising a support request, please check the table below.

Symptom	Likely Cause	What To Do
No message at all after deployment	The device is still searching for the satellite schedule.	Allow up to 24 hours. If nothing arrives, check satellite view and confirm the status LED flashed Blue twice 1 - 2 minutes after the button was pressed at install.
No message at all after deployment	Battery issues	Check the batteries are inserted correctly, replace with new Lithium batteries and check the LED flashes when the button is pressed.
Device reported for a while, then went silent.	Satellite view was lost. After 36 hours without GPS, the device pauses reporting to protect its battery.	Confirm the asset has not been moved indoors, into a container, or under cover. Reporting resumes automatically once satellite view returns. No reset is needed.
Position is stuck at an old location	GPS fixes are failing, but messages are still being sent.	Check for obstructions above the device. These messages carry the invalid-location flag so you can filter them.
Messages arrive hours late, or several at once	Normal satellite delivery.	No action. Use the timestamp inside each message, not its arrival time.
Duplicate or out-of-order messages	Normal satellite delivery.	De-duplicate using the timestamp and sequence number.
Sequence number jumped back to a low value.	The device restarted, or the sequence number reached the maximum value of 255 and started incrementing again at 0.	If this repeats often without the sequence number reaching 255, raise a support request and include the device serial number.
Reporting is more frequent than expected.	The device is moving, or is in an active tamper state, and is using a shorter interval.	Check the message reason field to confirm why the message was sent.
Device is mounted but flagged as incorrectly oriented	AssetHawk is tilted more than about 15° from horizontal.	Remount horizontally with the Myriota logo facing directly up to the sky.
Tamper will not clear after remounting	Replacing the magnet does not clear a tamper.	Wait for the tamper timeout to elapse (default: 24 hours).

If the issue is not listed above, raise a [support request](#).

Regulatory Approvals

The AssetHawk™ satellite communication operates in the UHF band B255 between 1626.5 MHz and 1660.5 MHz, with a bandwidth of 34 MHz and a power output of 26.31 dBm.

The AssetHawk has the following regulatory approvals:

- ACMA/RCM (pending)
- FCC
- Industry Canada
- CE/RED (pending)
- UKCA (pending)
- ANATEL (pending)
- ENACOM (pending)
- IFETEL (pending)
- SUBTEL (pending)
- MTC (pending)

The AssetHawk contains the following modules:

FCC ID: 2ANPO00NRF9151, IC: 24529-NRF9151

FCC ID: SH6AN54LQ, IC: 8017A-AN54LQ

General warnings

Warning – Modifications: Changes or modifications to the device not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Warning - Battery: User must set charge/discharge limits according to the battery manufacturer's Safety Data Sheets (SDS) for safety concerns.

Warning - Disassembly: The unit is not intended to be disassembled.

Warning - Battery: User must avoid exposing the unit to temperatures above 60°C to prevent damage to the battery.

Warning – Blasting Area: To avoid interference with blasting operations, turn your device off when in a "Blasting Area" or in areas posted "Turn off two-way radio." Obey all signs and instructions.

Warning – Potential Explosive Atmosphere: Turn off the device when in any area with a potentially explosive atmosphere and obey all signs and instructions. (End products specifically designed to work in Explosive Atmospheres are to follow their certification guidelines.)

Warning – Pacemakers: The Health Industry Manufacturers Association recommends that a minimum separation of six (6") inches be maintained between the device and a pacemaker to avoid potential interference with the pacemaker.

Warning – Hearing Aids: Some digital wireless devices may interfere with some hearing aids. To prevent such interference, you may want to consult the manufacturer of your hearing aid.

Warning - Specific Absorption Rate (SAR): A separation distance of at least 20 cm from the radiating structure and the body of the user or nearby persons must be maintained to comply with MPE (Maximum Permissible Exposure) requirements.

NOTE: If concerned about RF exposure during use, place the AssetHawk™ device away from your body. The RF exposure level drops off dramatically with distance from the device antenna.

Warranty

Myriota's Manufacturer's Warranty ("Manufacturer's Warranty")

Myriota offers a Product manufacturer's warranty for a period of 12 months from delivery. To the extent permitted by law, this warranty is limited to rectification of manufacturing defects and/or non-compliance with the Product Brief.

Myriota will undertake in-warranty service for Products subject to verification of proof of purchase and purchase date.

To the maximum extent permitted by law, Myriota accepts no liability for any defect or failure not caused by Myriota (including Customer accident, misuse and non-observance of operating instructions), or for Products which have been repaired by a person other than Myriota or used for purposes other than for which they are intended or deterioration due to normal use and exposure, including environmental conditions.