Copy of Haltian EH Locator User Guide

Welcome to using Haltian products

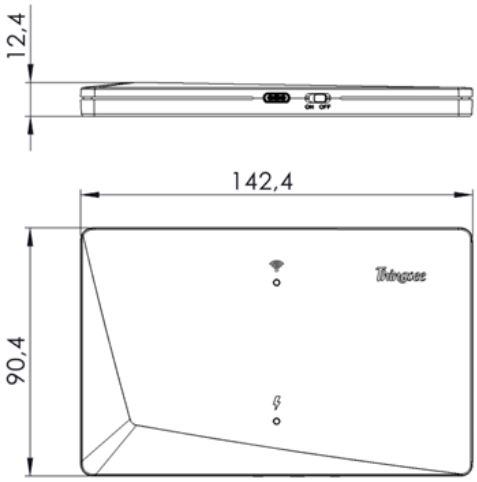
Congratulations on choosing Haltian Inventory Tracking Solution. We at Haltian want to make IoT easy and accessible for everyone, so we have created a solution that is easy to use, scalable and secure. I hope our solution will help you achieve your business goals!

Pasi Leipälä CEO, Haltian Oy

Haltian EH Locator

Haltian EH Locator is a fixed network element in Haltian's Inventory Tracking solution. The locator can operate in two different modes, as a router and as a beacon. In the router mode the locator receives and transmits BLE messages from asset tags and other routers. In addition, the device transmits beacon messages every second (configurable) which is utilized for inventorying and positioning asset tags.

The device can be powered by USB-C (5V), or it can harvest the needed power from an indoor light or sunlight by using integrated solar panel. In addition, locator's internal battery can maintain operations for several weeks without external power source. When using USB-C charger, the power outlet should be near the locator and easily accessible.



Using Haltian EH Locator device

The locator is used for tracking devices. It is recommended to have dense enough network formed by Locators so that maximized system performance can be achieved for inventory, positioning and mesh capability, respectively. Further instructions how to use the device can be found from the document Haltian Inventory Tracking Solution User and Installation Guide UNDEFINED

Device info

Recommended operating temperature: 0°C - +50°C

Operating humidity: 15% - 85% RH non-condensing

Storage temperature: 0°C - +50°C

Storage humidity: 15% - 85% RH non-condensing

IP rating grade: IP40

Indoor use only

Maximum Tx Power: +4 dBm

Li-ion battery 1800mAh

Temperature sensor included

Accelerometer included

More device info can be found at Technical information and FAQs | Haltian Support

PRECAUTIONS

Locator intended for indoor use only and shall not be exposed to rain. The recommended operating temperature range for the device is 0… +50 °C.

Switch off the device if you are taking it inside an aeroplane. The device has a Bluetooth LE receiver/transmitter which must not be operational during a flight.

Battery precautions:

- Risk of explosion if the battery is replaced with an incorrect type of battery
- Disposal of a battery into fire or a hot oven, or mechanically crushing or cutting of a battery, can result in an explosion
- Leaving a battery in an extremely high temperature surrounding environment can result in an explosion or the leakage of flammable liquid or gas
- A battery subjected to extremely low air pressure may result in an explosion or the leakage of flammable liquid or gas

LEGAL NOTICES

Hereby, Haltian Oy declares that the radio equipment type SLF is in compliance with Directive 2014/53/EU.

Haltian Oy vakuuttaa, että radiolaitetyyppi SLF on direktiivin 2014/53/EU mukainen.

TTG operates at Bluetooth® 2.4 GHz frequency band. The maximum radio-frequency power transmitted is +4 dBm.

Manufacturer name and address:

Haltian Oy

Yrttipellontie 1 D

90230 Oulu

Finland

RECYCLING

Check the local regulations for proper disposal of electronic products. The Directive on Waste Electrical and Electronic Equipment (WEEE), which entered into force as European law on 13th February 2003, resulted in a major change in the treatment of electrical equipment at end-of-life. The purpose of this Directive is, as a first priority, the prevention of WEEE, and in addition, to promote the reuse, recycling and other forms of recovery of such wastes so as to reduce disposal.

The crossed-out wheelie-bin symbol on your product, battery, literature, or packaging reminds you that all electrical and electronic products and batteries must be taken to separate collection at the end of their working life. Do not dispose of these products as unsorted municipal waste: take them for recycling. For info on your nearest recycling point, check with your local waste authority.

FCC REQUIREMENTS FOR OPERATION IN THE UNITED STATES

FCC Information for the User

This product does not contain any user serviceable components and is to be used with approved, internal antennas only. Any product changes or modifications will invalidate all applicable regulatory certifications and approvals.

FCC Guidelines for human Exposure

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Federal Communications Commission Statement

This device complies with Part 15 Rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference, and
- This device must accept any interference received, including interference that may cause undesired operation.

FCC Radio Frequency Interference Warnings & Instructions

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following methods:

- Increase the separation between the equipment and the receiver.

- Connect the equipment to an electrical outlet on a circuit different from that which the radio receiver is connected
- Consult the dealer or and experienced radio/TV technician for help
- Reorient or relocate the receiving antenna

FCC Caution

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

Innovation, Science and Economic Development Canada (ISED) regulatory information:

This device complies with RSS-247 of the Innovation, Science and Economic Development Canada (ISED) Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Ce dispositif est conforme à la nor me RSS-247 d’Innovation, Sciences et Développent économique Canada applicable aux appareils radio exempts de licence. Son fonctionnement est sujet aux deux conditions suivantes: (1) le dispositif ne doit pas produire de brouillage préjudiciable, et (2) ce dispositif doit accepter tout brouillage reçu, y compris un brouillage susceptible de provoquer un fonctionnement indésirable

Radiation Exposure Statement :

This device complies with ISED radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 cm between the radiator and your body.

NOTE IMPORTANTE: Déclaration d'exposition aux radiations:

Cet équipement est conforme aux limites d'exposition aux rayonnements ISED établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec une distance minimale de 20 cm entre le radiateur et votre corps.

FCC ID: 2AEU3HAEHLO

IC: 20236-HAEHLO