



Abeeway ABEW-COMPTRAC-LNA Compact Tracker User Guide


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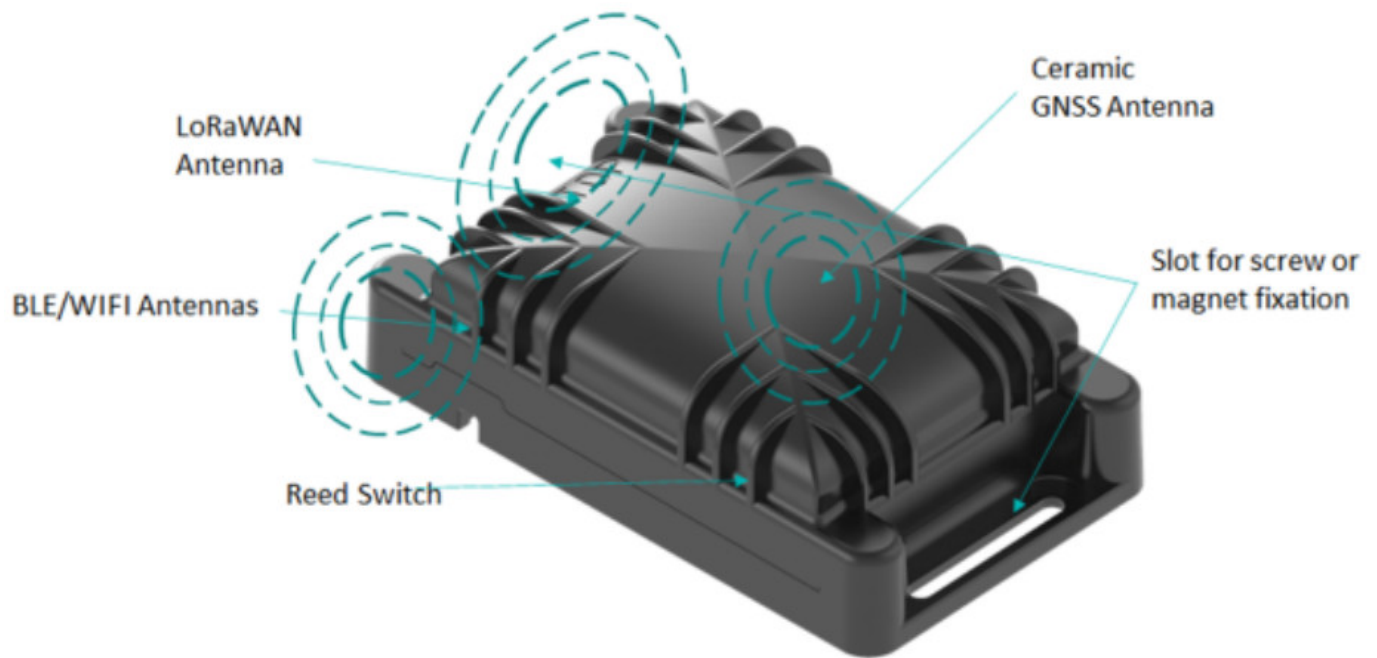
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Compact tracker

The Abeeway compact tracker is a multi-mode tracker that uses 3 replaceable AA format batteries for a long battery lifetime and easy replacement. It combines GPS, Low Power-GPS (LP-GPS) (an ultra-low power assisted GPS patented by Abeeway  that also optimizes Timeto-First Fix in difficult conditions), Wi-Fi, LoRaWAN® and BLE radios with embedded sensors to support accurate outdoor and indoor geolocation. This tracker is equipped

with a rugged waterproof casing that is designed to withstand harsh surroundings enabling seamless asset tracking and management in any industrial environment – whether it is for heavy-duty assets, inventory, or livestock.



Key product features

The Abeeway compact tracker provides you with the flexibility you need to adapt your tracker's behavior to your use case, selecting the right operating mode and geolocation technology.

Reed switch

Key precautions for activation of the Compact tracker with a magnet

- Do not attempt to activate the Compact tracker when in the proximity of strong magnetic fields (ie, magnetic mounts)
- Use a strong enough magnet, and make sure you know where are the poles. A magnet that has been successfully tested with the reed switch can be purchased from [here](#)

Magnet sequence to activate the compact tracker

For MCU FW 2.2 and above, you need to carry out the following sequence with the magnet next to the reed switch:

Note: You should always start the sequence with the magnet far away from the tracker to avoid false detection of the reed switch

- A long activation of the reed switch (between 3 to 6 seconds)
- A long time without activation of the reed switch (between 3 to 6 seconds)
- A long activation of the reed switch (between 3 to 6 seconds)

The example video below demonstrates the operation.

Abeeway Compact Tracke...



Multiple operating modes

- **Shipping:** The tracker is set to Shipping mode when leaving the factory, for safe transport and minimum power consumption. You need to activate it before first use as outlined above.
- **Motion tracking:** Tracker reports real-time position only when motion is detected. This is the default configuration that you can discover by applying the instructions given in this guide. (very low power operating mode). The position request can be made from the geolocation backend platform.
- **Activity tracking:** Monitor activity rate with embedded sensors.
- **Standby:** The tracker sends periodically short LoRaWAN® messages, called heartbeat, at the configured interval. This provides periodic slots during which it is possible to send LoRaWAN commands to the tracker, such as configuration commands or on-demand positions (using the configuration set for “side operations”). For more information, see Abeeway Trackers Reference Guide.

Geolocation technologies

- **GPS:** For precise outdoor positioning
- **Low Power-GPS (LP-GPS) :** For power-efficient outdoor and daylight indoor positioning LPGPS is an assisted-GPS technology optimized specifically for LPWAN networks, patented by anyway. It dramatically reduces Time to First Fix, even in poor radio conditions, and results in a much-improved battery lifetime, particularly for indoor/outdoor mixed use cases when the GPS frequently gets out of sync or operates in low SNR conditions.
- **Wi-Fi:** For indoor and outdoor location services in urban areas, It leverages the Wi-Fi access point scanning capabilities of the compact tracker.
- **BLE:** For indoor location, for example as a complement to WiFi to precisely spot specific locations, for coarse location in a building (to identify rooms or danger/forbidden zones), or as main indoor location technology using server-side triangulation (provided by ThingPark X Location Engine)

Other features

- Temperature monitoring

- LoRaWAN® Class A radio
- Dust-proof and waterproof (IP65)

Standards and certifications

- LoRa Alliance: EU868, US915, AS923

WARNING


The tracker is resistant to water but must never be placed either fully/partially submerged in water or under the influence of high-pressure water spray jets for significantly long periods of time. To avoid water entering in the casing, the tracker must not be placed upside down. The warranty of the tracker is avoided if used incorrectly.

Edit on GitHub 









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https://docs.thingpark.com/thingpark-location/B-Feature-Topics/CompactTracker_C/

Documents / Resources

	<p>Abeeway ABEW-COMPTRAC-LNA Compact Tracker [pdf] User Guide Abeew-COMPTRAC-LNA, Compact Tracker, ABEW-COMPTRAC-LNA Compact Tracker</p>
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References

-  [ThingPark Location overview](#)
-  [Compact tracker](#)
-  [Documentation library](#)
-  [Documentation library](#)
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-  [Sign in to GitHub · GitHub](#)
-  [Abeeway - Compact Tracker Magnets for Reed switch - ThingPark Market](#)
-  [Technology - Abeeway](#)