

LL-AF2-ST-SM-ATK42 SuperTag Plus

User Guide



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LL-AF2-ST-SM-ATK42 SuperTag Plus

The LL-AF2-ST-SM-ATK42 SuperTag Plus interfaces with Link Labs AirFinder User Interface (app.airfinder.com) to provide customers with a highly accurate GPS, Wi-Fi, Bluetooth positioning service, and accelerometer and temperature.

The LL-AF2-ST-SM-ATK42 SuperTag Plus is an IP67 rated device with a 5-color LED indicator.

Device Specifications

Electrical

- Lithium manganese oxide 4x2.3Ah Battery

Mechanical

- Case Material: ABS
- Dimensions: 118 x 83.1 x 34.3mm
- Weight: 238 g
- IP67 Rating

Device notification payload contains

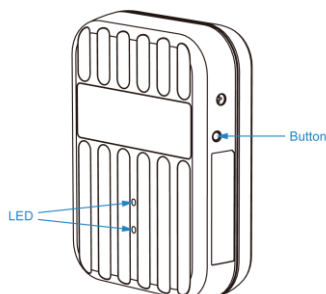
- GPS for outdoor positioning
- WiFi for outdoor positioning
 - Only when GPS positioning data is not available
- Cell Tower ID for outdoor positioning
- Bluetooth for indoor positioning
- Movement and Impact reports



Powering on the device and installation

The device has the multi-function button located on the back side of the device and a LED light indication located on the front of the device.

Please note the location of the Power Button and LED Lights



Shipping Mode

After initial programming, the device will enter a low power shipping mode. In this mode the device will perform no operation other than monitor the pushbutton. To exit shipping mode the user must press and hold the pushbutton for at least 5 seconds. After a successful exit from shipping mode the device will only re-enter shipping mode if re-programmed or user pushbutton sequence to re-enter is performed.

LED behavior

The device has a visible multi-colored LED used to provide user feedback about device mode and status.

Shipping mode:

Button hold	Red LED blink	Red LED solid	White LED blink	End state
Button < 1 sec	--	3 sec	--	Shipping mode
Button >= 1 sec and Button < 3 sec	1x per sec	3 sec	--	Shipping mode
Button > 3 sec	1x per sec	--	5x rapid	Normal operation

Startup from shipping mode: blink blue LED 3 times (exit shipping mode), blink white LED 5 times (application start).

Startup/reset normal: blink blue LED 3 times (bootloader), blink white LED 5 times (application start).

Operation mode: 1 White blink fast during location scan

Cloud sync: see cloud sync behavior

Device cannot connect/constantly resetting: the blue LED will blink 3 times, then there will be a pause, and the blue LED will blink 3 more times. This behavior will continue indefinitely, without the device's white LED blinking. This means that the device has an error. Some causes are: low battery; battery types that cannot handle the pulse current for LTE-M.

Cloud sync

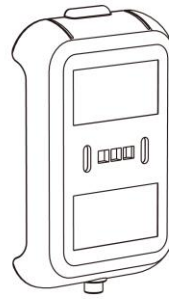
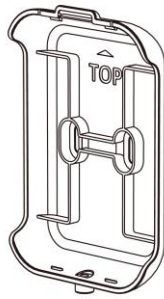
The cloud sync feature allows the user to force the device to send an uplink and check for any pending mailbox messages. When the cloud sync pushbutton sequence is performed the device will immediately send a diagnostic event count message and check downlink mailbox using the current modes network (SymBLE or LTE-m). If a location update is in progress this will also be sent with the uplink; however, if a GPS is in progress the scan will be stopped due to potential long GPS scan times and the next location type will be started.

The LED is used to indicate to the user the result of the downlink mailbox check:

- 1 - Green LED blink (5s): downlink mailbox check success with mail
- 2 - White LED blink (5s): downlink mailbox check success no mail
- 3 - Red LED blink (5s): downlink mailbox check failed

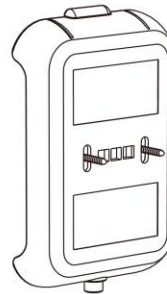
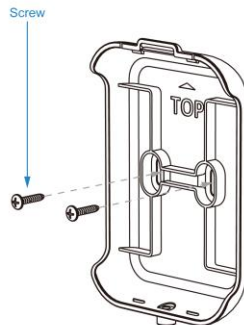
Optional mounting bracket

An optional mounting bracket for the LL-AF2-ST-SM-ATK42 SuperTag Plus is available for purchase.



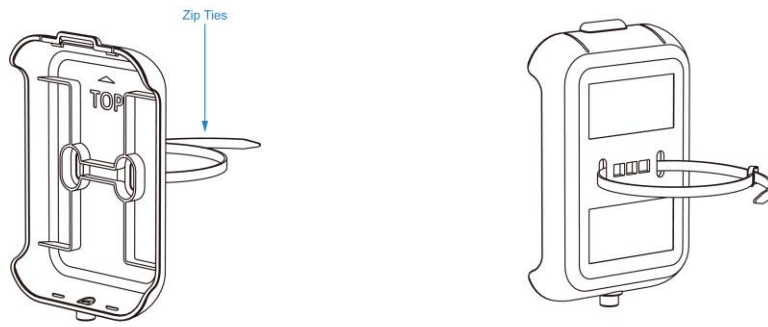
Customers may use screws, zip ties or VHB tape to affix the mounting bracket to a variety of surfaces.

Using Screws to affix bracket

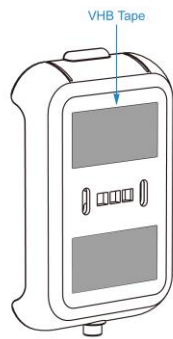


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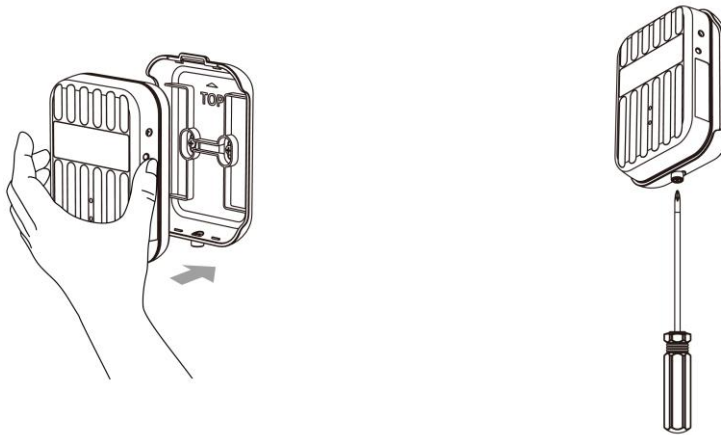
Using zip ties to affix bracket



Using VHB tape to affix bracket



After affixing the mounting bracket, insert the into the mounting bracket and secure it by tightening the screw located on the bottom.



Frequently Asked Questions (FAQ)

Question	Answer
How do I power on the device?	Device is powered on by pressing/holding the button for 5 seconds. The LED will blink blue 3 times and white 5 times to indicate it is powered up.
How do I diagnose what is going on with my device?	Most of the device diagnostics can be observed from the LED light on the device.
Can I power down the device?	Devices do not have the ability to be powered off after the initial power on unless the batteries are removed.
Can I change the configuration of the device?	Device configurations can be changed by setting up an AirFinder account at apps.airfinder.com , or submitting a support ticket to https://link-labs.zendesk.com/hc/en-us/requests/new?ticket_form_id=360000334931

LL-AF2-ST-SM-ATK42 SuperTag Plus

Federal Communication Commission Interference Statement

This device complies with Part 15 of the FCC 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.

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 generates, 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 of the following measures:

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

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.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Radiation Exposure Statement:

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

Industry Canada statement

This device complies with ICSED's licence-exempt RSSs. 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.

Le présent appareil est conforme aux CNR d' ICSED applicables aux appareils radio exempts de licence. L'exploitation est autorisée 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 equipment complies with ICSED radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with greater than 20cm between the radiator & your body.

Déclaration d'exposition aux radiations: Cet équipement est conforme aux limites d'exposition aux rayonnements ICSED établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé à plus de 20cm entre le radiateur et votre corps.