



# PointerTag T1

## User Manual

Apple Find My Network Compatible Item Tracker

Model: GI-PT1

Version: V1.0



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## Product Overview

PointerTag T1 is a compact water-drop shaped item tracker designed for Apple Find My Network. It uses advanced Bluetooth 5.3 LE technology to work with the global Find My Network consisting of hundreds of millions of Apple devices, helping you track and protect your important items anytime, anywhere.



Figure 1: PointerTag T1

Key features include: Compact water-drop design (40.5 x 32 x 9 mm), perfect for keys, bags, and pets; Ultra-long battery life (over 1 year) with replaceable CR2032 battery; 70 dB buzzer for quick location with one-click call; NFC support for lost item contact information; iCloud Family Sharing support for up to 5 users.

# Technical Specifications

## Physical Parameters

|                  |                                                                                         |
|------------------|-----------------------------------------------------------------------------------------|
| Dimensions       | 40.5 x 32 x 9 mm (Water-drop shape)                                                     |
| Weight           | 8.0g +/- 0.5g (with battery)                                                            |
| Housing Material | ABS+PC with UV scratch-resistant coating                                                |
| Color            | Ice White / Obsidian Black                                                              |
| Installation     | 1.5mm lanyard hole + 3M adhesive included; optional pet collar clip, luggage strap clip |

## Environmental Reliability

|                       |                                                       |
|-----------------------|-------------------------------------------------------|
| Operating Temperature | -20°C ~ +60°C                                         |
| Storage Temperature   | -40°C ~ +85°C                                         |
| Drop Test             | 1.5m to concrete on all 6 sides, no functional damage |
| Thermal Cycling       | -20°C to 60°C, 10 cycles, normal function             |

## Wireless & RF

|                |                                                     |
|----------------|-----------------------------------------------------|
| Protocol       | Bluetooth® 5.4 LE (supports Long-Range Coded PHY)   |
| Frequency Band | 2402 - 2480 MHz (ISM 2.4 GHz)                       |
| Modulation     | GFSK                                                |
| Max TX Power   | +1dBm                                               |
| RX Sensitivity | -97 dBm (PER≤30.8%)                                 |
| Antenna        | On-board ceramic + optional external IPEX connector |
| Certifications | FCC, MFi                                            |

## Positioning Performance

|                    |                                                               |
|--------------------|---------------------------------------------------------------|
| Operating Mode     | Apple Find My Network (iOS 14.5+ / iPadOS 14.5+ / macOS 11+)  |
| Broadcast Interval | Slow 2s (stationary); Fast 200ms (motion triggered)           |
| Effective Range    | ≈ 80m (tested with iPhone 12 and above)                       |
| Offline Cache      | 72h trajectory saved during power loss, auto-sync when online |
| Accuracy           | ≤ 2m in open areas (depends on Apple device density)          |

## Power & Battery

|                   |                                                    |
|-------------------|----------------------------------------------------|
| Battery Model     | CR2032 Lithium Manganese, 220 mAh (replaceable)    |
| Battery Life      | > 1 year (slow broadcast 2s, 25°C, 5 triggers/day) |
| Low Battery Alert | Phone popup + device beeps 3 times when < 15%      |
| Standby Current   | ≤ 3 μA (sleep mode)                                |
| TX Peak Current   | ≤ 18 mA (+10 dBm burst)                            |
| Buzzer Current    | ≤ 30 mA (3V, continuous 70 dB @10cm)               |

## Audio & Alerts

|               |                                           |
|---------------|-------------------------------------------|
| Buzzer        | Φ9mm ceramic, dual resonant cavity design |
| Volume        | 70 dB @10cm (10s during one-click call)   |
| Alert Methods | Buzzer (sound can be disabled in App)     |

## Sensors & Extensions

|                     |                                                             |
|---------------------|-------------------------------------------------------------|
| G-Sensor            | 3-axis accelerometer, programmable motion threshold         |
| NFC                 | NTAG213 1kB for lost item contact info (optional)           |
| Extension Interface | 2xPogo Pin for programming/testing (VDD, SWDIO, SWCLK, GND) |

## Software Features

|                        |                                                 |
|------------------------|-------------------------------------------------|
| <b>One-Tap Pairing</b> | Auto popup when near iPhone, bind in 3 seconds  |
| <b>Lost Mode</b>       | Remote ID lock, message, contact NFC write      |
| <b>Family Sharing</b>  | iCloud Family Sharing, up to 5 users            |
| <b>Firmware Update</b> | OAD (Over-Air-DFU), AES-128 encrypted signature |

# User Guide

## Power On

Remove the battery insulation paper. The device will automatically power on. Press the button twice briefly to hear the buzzer sound, confirming the device is powered on.

## Pairing Device

Follow these steps to pair PointerTag T1 with your Apple device:

1. Place the PointerTag T1 near your Apple device (e.g., iPhone);
2. Turn on Bluetooth and connect to the internet on your Apple device;
3. Open the "Find My" app, select "Items", tap "+", and choose "Add Other Item";
4. When "PointerTag T1" is detected, tap "Connect";
5. Name your device, select an emoji, tap "Continue", then tap "Done" to complete pairing.

## Enable Lost Mode

When your item is lost, you can enable Lost Mode:

6. Open the "Find My" app, tap "Items" at the bottom, then tap the item name;
7. Under "Lost Mode", tap "Enable";
8. Follow the on-screen instructions, tap "Continue" and enter a phone number or email;
9. Tap "Next" to verify the information, then tap "Enable" again to complete.

*Note: For iOS 26.1 and above, there is no Enable button. In case of lost item, follow the prompts in the App to enter contact information and share location.*

## Remove Device

To remove a paired device:

10. Open the "Find My" app, tap "Items" at the bottom, then tap the item name;

11. Find "Remove Item" at the bottom of the list, tap "Remove" to complete.

*Note: After removing the device, it will beep. The device will not power off but enter pairing mode. If no connection is made within 3 minutes, it will automatically power off.*

## Button Instructions

|                               |                                                                                    |
|-------------------------------|------------------------------------------------------------------------------------|
| <b>Power On</b>               | Press once briefly, hear "beep-beep.." sound                                       |
| <b>Power Off</b>              | Press twice briefly, press and hold on third press, hear "beep-beep.." sound       |
| <b>Reset (Factory Reset)</b>  | Press four times briefly, press and hold on fifth press, rapid "beep-beep.." sound |
| <b>Trigger LearnMore Page</b> | Press twice briefly                                                                |

## Important Notes

When pairing the device with the Find My app, it needs to connect to Apple servers. If pairing fails, it is usually because your network cannot temporarily connect to Apple servers. We recommend the following:

12. Switch network, e.g., between WiFi and cellular data;
13. Factory reset the device: After powering on, press four times briefly, press and hold on fifth press. You will hear rapid "beep-beep.." sound;
14. Re-pair with the Find My app.

## Safety & Compliance

### Data Security

PointerTag T1 uses end-to-end AES-128-GCM + ECDH P-224 encryption technology to ensure your location data security. The Bluetooth beacon contains no personal ID, and location data can only be decrypted by your own device. The elliptic curve P-224 public key rotates every 15 minutes to effectively prevent tracking.

### Certifications

This product has passed MFi certification, and the certification number can be verified on the official website. The product complies with Apple Find My Network Accessory R3 specification. Certifications passed: FCC, MFi.

#### FCC 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.

Changes or Modifications not expressly approved by the party responsible could void the user's authority to operate this device.

NOTE: 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 or more 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.

RF Exposure statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

## Package Contents

Please confirm the following items are included when opening the package:

|                       |                     |
|-----------------------|---------------------|
| PointerTag T1 Tracker | x 1                 |
| CR2032 Battery        | x 1 (pre-installed) |
| Battery Removal Tool  | x 1                 |
| Lanyard               | x 1                 |
| Fun Stickers          | x 2                 |
| User Manual           | x 1                 |

Package dimensions: 120 x 85 x 15 mm, Gross weight: 35 g

Packaging: FSC eco-friendly paper, single-layer E-flute, biodegradable soy ink printing.



# PointerTag T1

Smart Tracking, Peace of Mind

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