
PointerCard C1

User Manual

Apple Find My Network Compatible Card Tracker

Model: GI-PC1

Version: V1.0

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Product Overview

PointerCard C1 is an ultra-thin card 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: PointerCard C1

Key features include: Ultra-thin design (only 1.7mm thick), easily fits in wallets, card holders or passport cases; Ultra-long battery life (over 1 year), no frequent charging needed; 90dB buzzer for quick location with one-click call; IP68 protection rating, waterproof and dustproof; Lost Mode support to protect your privacy and security.

Technical Specifications

Physical Parameters

Dimensions	83.7 x 54.4 x 1.7 mm (Ultra-thin)
Weight	12.6g +/- 0.5g (with battery)
Housing Material	PC with painted surface
Color	Black
Installation	Lamination

Environmental Reliability

Protection Rating	IP68 (1m depth for 30 minutes)
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	0 dBm
RX Sensitivity	-97 dBm (PER≤30.8%)
Antenna	On-board ceramic + optional external IPEX connector
Certifications	CE-RED, FCC Part 15, IC, SRRC, BQB, RoHS, REACH

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	PL084545 Li-Polymer, 100 mAh
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	≤ 9 μA (sleep mode)
TX Peak Current	≤ 18 mA (+10 dBm burst)
Buzzer Current	≤ 30 mA (3V, continuous 80 dB @10cm)

Audio & Alerts

Buzzer	Φ20.5mm piezo, dual resonant cavity design
Volume	80 dB @10cm (10s during one-click call)
Alert Methods	Buzzer + Blue LED flash (sound can be disabled in App)

Sensors & Extensions

G-Sensor	3-axis accelerometer, programmable motion threshold
Extension Interface	2xPogo Pin for programming/testing (VDD, SWDIO, SWCLK, GND)

User Guide

Power On

Press the FindMy button once. You will hear "beep-beep-beep" indicating the device is powered on. The blue LED will flash during power on.

Pairing Device

Follow these steps to pair PointerCard C1 with your Apple device:

1. Place the FindMy card 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 "PointerCard C1" 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 and the blue LED will flash twice. The device will not power off but enter pairing mode. If no connection is made within 10 minutes, it will automatically power off.

Button Instructions

Power On	Press once, hear "beep-beep..", blue LED flashes
Power Off	Press twice, press and hold on third press, hear "beep-beep..", blue LED flashes
Reset (Factory Reset)	Press four times, press and hold on fifth press, rapid "beep-beep..", blue LED flashes
Trigger LearnMore Page	Press twice

LED Indicator

Blue LED	Lights up during power on/off, reset, or triggering LearnMore page
Red LED	Lights up during charging
Green LED	Lights up when fully charged
Blue Flashing	Blue LED lights up and flashes when buzzer sounds

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, press and hold on fifth press.
You will hear rapid "beep-beep.." with blue LED flashing;
14. Re-pair with the Find My app.

Safety & Compliance

Data Security

PointerCard C1 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

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:

PointerCard C1 Tracker	x 1
Color Box	x 1
Blister Tray	x 1

Package dimensions: 100 x 80 x 10 mm, Gross weight: 25.2 g



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