

ABT100 User Manual

EGPRS / LTE Cat-1

V1.01



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0. Revision History

Revision	Date	Author	Description of Change
1.01	December 01, 2025	Joel	Initial

1. Introduction

The ABT100 is powerful tracking device built-in Cat 1 network module, for demanding applications like asset tracking, vehicle recovery, and cold chain logistics. The product has a built-in Motion sensor, Light sensor, it has BLE 5.3 inside and battery 10000mAh. Device match IP67 rating. ABT100 can come in several different versions:

ABT100 - Standard version

ABT100M - Standard version + Magnet

ABT110 - Standard version + RF433 Transmission

ABT110M - Standard version + RF433 Transmission + Magnet

1.1. Specifications

General Specifications	
Dimensions	111.5mm*67.9mm*31.5mm
Network	1. EGPRS: GSM850/GSM900/DCS1800/PCS1900 2. Cat-1: B1, B3, B5, B7, B8, B20, B28
GNSS (Optional)	GPS, GLONASS, BDS, GALILEO
Bluetooth	BLE 5.3
Sensors & Interface	G-Sensor (6-axis accelerometer and gyroscope)
Light Sensor	Front & Back (Tamper)
Temperature	Temperature and Humidity
Battery	3.7V 10000mAh Rechargeable Li-polymer Battery
IP Rating	IP67
Power Supply	5V 3A
Operating Temperature	-20°C~+60°C
LED indicator	NET LED GNSS LED Battery LED
Configuration/Charging port	External 4 pins port
RF433 Transmission	(Optional, depends on model)
Magnet	(Optional, depends on model)

2. Product Overview

2.1. Install a SIM Card

Open the case and ensure the unit is not powered. Slide the holder down to open the SIM card holder. Insert the SIM card into the holder as shown below with the gold-colored contact area facing down. Take care to align the cut mark. Close the SIM card holder. Close the case and screw it.



2.2. ABT100 Battery & Charging

Unit ABT100 has internal 10000mAh Rechargeable Li-polymer Battery. Battery charging time ~ 5 hour. Unit can be charged from a computer, or with an external power adapter with a 5V 3A.



2.3. Terminal Status LED

LED	Device Status	LED Status
GNSS	GNSS chip is powered off.	OFF
	GNSS sends no data or data format error occurs.	High speed flashing
	GNSS chip is searching GNSS information.	Medium speed flashing
	GNSS chip has gotten GNSS information.	ON
NET	The device is searching network.	Fast flashing
	The device has been registered on the network.	Slow flashing
Battery	If button pressed, battery Led indicate battery level.	

Note:

CELL LED, GNSS LED can be configured to be turned off after a period time by using the configuration tool.

2.4. G-Sensor (Motion)

ABT100 has an internal 6-axis accelerometer and gyroscope sensor supporting motion detection and Tilt alarm.

2.5. RF433 Transmission

RF433 Transmission only available on the unit ABT110 or AVT110M.

2.6. Product Parts List

Table 1. Parts List

Name	Picture
ABT100	
6 pcs Screws	
Charging adapter with charging cable	