

USER MANUAL

Amber Guard A100 Portable GPS Tracker Smart IoT Panic Device

1
Install
your device

2
Download
Amber Connect
App

3
Activate
the device



Instructions:

Charging



- Slide the USB port door open
- Insert USB Type-C charger
- Ensure the other end is connected to a 5V wall adaptor and switched on
- Monitor LEDs to observe charging progress
- Disconnect cable when charging is complete
- Close the USB port sliding door until it clips in place

Pressing the Panic Button

SOS

- Press the centre button for 1 second
- Observe the LEDs
- Release the centre button



Sigfox Specification

Communication system	Sigfox
Sigfox frequency	868MHz
Certified configured region	RC1 - ETSI
RF max power	Class 0u
Other RF capabilities	Proprietary RF -- 868MHz band

GNSS Specification

Supported GNSS constellations	GPS, GLONASS, BeiDou and Galileo
Assisted GNSS	AssistNow™ Autonomous
Frequency	GPS 1575.42 MHz & GLONASS 1602 MHz
Receiver type	72-channel
Horizontal position accuracy	2.5m
Tracking sensitivity	-167dBm
Acquisition sensitivity	-148dBm
TTFF	Avg. hot start < 1sec Avg. cold start < 26sec Avg. aided start < 2sec

Motion Specification

Full scale configuration	+2g / +4g / +8g / 16g
Power consumption	50nA in power-down mode <1uA in active low-power mode
Data rates	Between 1Hz and 1.6kHz

Other Specifications

Battery	1100 mAh Lithium Polymer, 3.7V
Dimensions	76 mm (l) x 48 mm (w) x 20 mm (h)
Weight	126g

Contact

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Lithium Battery Safety Guidelines:

Chargers and Charging Practice

- Charge or discharge the battery to approximately 50% of capacity before long-term storage.
- Use chargers designed to safely charge cells or battery packs at the specified parameters.
- Disconnect batteries immediately if, during operation or charging, they emit an unusual smell, develop heat, change shape/geometry, or behave abnormally. Dispose of the batteries.
- Charge and store batteries in a fire-retardant container like a high quality Lipo Sack when practical.

Handling and Use

- Handle the battery-powered device cautiously to not damage the battery casing or connections.
- Keep batteries from contacting conductive materials, water, seawater, strong oxidizers and strong acids.
- Do not place batteries in direct sunlight, on hot surfaces or in hot locations. Inspect batteries for signs of damage before use. Never use and promptly dispose of damaged or puffy batteries.
- Keep all flammable materials away from operating area. Allow time for cooling before charging a battery that is still warm from usage and using a battery that is still warm from charging.

Disposal

- Dispose of damaged cells and cells that no longer hold a substantial charge. To check the general condition of your cells, charge them, let them rest for an hour, then measure the voltage. If your cells are close to 4.2V, the cells are in good condition.
- Dispose of used batteries by taking them to an e.Media bin (if less than five pounds) or by completing an Online Chemical Waste Collection Request.