

AX1 ASSET TRACKER

MULTI-SENSOR LORAWAN GPS TRACKER

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KEY FEATURES

- ◆ **Multi-Sensor Tracking:** Integrates GPS, WiFi, BLE, Temperature, Humidity, and Motion Detection sensors to provide versatile tracking scenarios and enhanced data collection.
- ◆ **Rechargeable Battery:** Equipped with a 1000mAh rechargeable Li-on battery for extended use and easy power management via a 5V USB port.
- ◆ **On-Demand Location:** Features a user-activated button to send real-time GPS location data on demand, adding a layer of control and security.

DEVICE OVERVIEW

The **ioX-Connect AX1 Asset Tracker** is a robust LoRaWAN tracker built on the ESP32 MCU and a Semtech LoRa Wireless Chip. It is designed to provide flexible and reliable asset tracking by incorporating a suite of sensors beyond standard GPS. This allows for comprehensive monitoring of an asset's location, environment, and movement.

The tracker leverages LoRa wireless technology, enabling it to transmit data over extremely long distances with minimal power. Data is sent through an ioX-Connect LoRaWAN gateway directly to the ioX-Connect platform, providing users with real-time geolocation information and sensor readings. Its combination of low-power operation, multiple sensors, and long-range communication makes it the ideal solution for a wide range of asset management applications.

TECHNICAL FEATURES

- **LoRaWAN® Version:** 1.0.3 Specification
- **RF Output:** +20 dBm (100 mW) or +14 dBm high efficiency PA
- **Dimensions:** Size: 10 x 8.5 x 4 cm - Weight: 111 grams
- **Battery:** 1000mA rechargeable Li-on Battery
- **Power Consumption:** Sleeping Mode: 200uA - LoRa Transmit Mode: 125mA @ 20dBm; 44mA @ 14dBm - GPS Tracking Mode: 38mA (max)
- **Operating Temperature:** -40°C ~ 60°C
- **On-board Sensors:** GPS, WiFi, BLE, Temperature, Humidity & Motion Detection
- **Supported Frequency Bands:** 862 ~ 1020 Mhz

