ioX-Connect®

AX1SL ASSET TRACKER

SOLAR–POWERED LORAWAN GPS TRACKER

KEY FEATURES

- ◆ **Solar Powered & Rechargeable:** Equipped with a 3000mAh Li-ion battery and an integrated solar panel for extended, multi-year outdoor deployments and sustainable power management.

- ◆ **Intelligent Motion Tracking:** Utilizes a built-in 3-axis accelerometer to enable motion-based reporting, increasing update frequency when movement is detected and conserving power when stationary.

- ◆ **Offline Data Logging:** Automatically saves location data when outside of network coverage and transmits the stored information once a connection is re-established, ensuring no data is lost.

DEVICE OVERVIEW

The ioX-Connect AX1SL Asset Tracker is a solar-powered LoRaWAN tracker built on the ESP32 MCU and a Semtech LoRa Wireless Chip. It is designed for professional, long-term asset tracking by providing reliable GPS location data transmitted over the ioX-Connect LoRaWAN network. The tracker leverages LoRa wireless technology, enabling it to send data over extremely long distances with minimal power. Its intelligent motion detection capability optimizes battery life by adjusting the reporting frequency based on the asset's movement. Furthermore, the integrated data logging feature ensures that location history is preserved even when the device is temporarily out of network range. With its combination of solar power, low-power operation, and robust communication, the AX1SL is the ideal solution for a wide range of asset management applications.

TECHNICAL FEATURES

- **LoRaWAN Version:** v1.0.3, Class A (ioX-Connect offers cellular based GPS trackers as well, contact us for details)
- **RF Output:** +20 dBm (100 mW) or +14 dBm high-efficiency PA
- **Sensitivity:** Down to -148 dBm
- **Frequency Bands:** 868: For EU868,RUS864,IN865,KZ865 | 915: For US915,AU915,AS923,KR920
- **Power Management:** Built-in power monitoring and charging circuit via USB port
- **Battery:** 3000mAh rechargeable Li-ion Battery with Solar Panel
- **On-board Sensors:** GPS & 3-axis accelerometer for Motion Detection
- **Operating Temperature:** -40°C ~ 60°C
- **Enclosure:** IP66 Waterproof
- **Configuration:** Remotely configurable via any ioX-Connect platform

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