



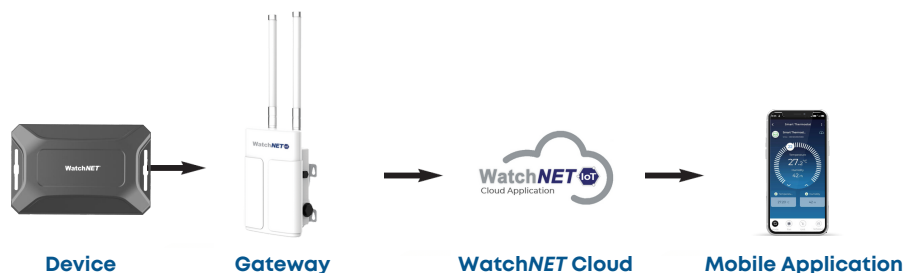
WLRC-AT1-L

Outdoor Asset Tracker Featuring LoRaWAN®

The WatchNET IoT WLRC-AT1-L stands out as an exceptional outdoor tracker, utilizing GNSS and Wi-Fi AP MAC Address Scanning for highly accurate positioning data. With additional tilt and temperature sensors, it ensures comprehensive data collection, making it versatile for various applications. The device is crafted with IP67 and IK09 ratings, ensuring durability in diverse environments. Collaborating seamlessly with the WatchNET IoT LoRaWAN® gateway and mainstream LoRaWAN® network servers, the WLRC-AT1-L boasts low power consumption, allowing it to operate for over 15 years with twice-daily reports. Integrated with the WatchNET IoT LoRaWAN® gateway and WatchNET IoT Cloud solution, users gain the capability to remotely and visually manage all sensor data.

KEY FEATURES

- Equipped with high-precision GNSS positioning and cooperation with Wi-Fi positioning
- Built-in 3-axis accelerometer sensor to monitor device tilt status and movement
- Equipped with NTC temperature sensor enabling environmental detection
- Support IP67 and IK09 rating protections for harsh environment application
- Built-in replaceable batteries and work for up to over 15 years without replacement
- Provide integrated structure and anti-theft design for wireless and safe deployment
- Incorporate UV protection to be suitable for outdoor environments.
- Support Geofencing for targeted messaging to secure the assets and area
- Multiple and switchable modes provide motion tracking, periodic tracking, and timing tracking
- Store locally 1000 historical records and support retransmission to prevent data loss
- Built-in NFC and Bluetooth for easy configuration
- Compliant with standard LoRaWAN® gateways and network servers
- Quick and easy management with WatchNET IoT Cloud solution



Wireless Transmission	
Protocol	LoRaWAN®
Frequency	CN470/IN865/RU864/EU868/US915/AU915/KR920/AS923-1&2&3&4
Tx Power	16 dBm (868 MHz)/20 dBm (915 MHz)/19 dBm (470 MHz)
Sensitivity	-137 dBm @300bps
Mode	OTAA/ABP Class A
Measurement	
GNSS Positioning	
Position Accuracy (CEP)	5.0m (Direct Line of Sight)
Resolution	Longitude/Latitude: 0.000001
Time To First Fix	Cold Start: 37s Average Hot Start: 1s Average
Sensitivity	Tracking: -167dBm. Reacquisition: -160 dBm Cold Start: -148dBm. Hot Start: -159 dBm
Wi-Fi Positioning	
Wi-Fi Positioning	Indoor asset location using Wi-Fi access point scanning (device does not connect to Wi-Fi)
Wi-Fi Parameters	BSSID, RSSI
Wi-Fi Standard	802.11b/g/n. 2.4GHz
Device Motion	
Status	Normal/Tilt
Temperature	
Range	-40 ~ 125°C
Resolution	0.1°C

*All logos & trade marks represent the registered users only. All rights reserved.

*All product specifications on this brochure are subject to change without notice.

CANADA:
351 Ferrier Street Unit 5
Markham, Ontario L3R 5Z2
Tel: 416-410-6865
Toll Free: 1-866-843-6865

USA:
171 Cooper Ave.
Suite 110 Tonawanda,
NY 14150 USA
Tel: 1-716-877-7277
Toll Free: 1-866-843-6865

MIDDLE EAST:
PO Box No 126312
Office Suite 703 Oxford Tower
Business Bay Dubai, UAE
Tel: + 971 4 2767117



www.watchnetiot.com
info@watchnetiot.com

Operation	
Power On & Off	NFC, Power Button (Internal)
Configuration	NFC, Bluetooth® 5.3
Physical Characteristic	
Power Supply	4 × 2700 mAh ER14505 Li-SOCI2 Replaceable Batteries
Battery Life* (25°C)	Twice Daily Location Updates - 15+ Years Tenth Daily Location Updates - 8+ Years Hourly location updates – 4+ Years
Operating Temperature	-30°C. ~ +70°C
Relative Humidity	0 ~ 95% (Non-condensing)
Material & Color	PC, Black
Ingress Protection	IP67
Impact Protection	IK09
Dimension	110 × 70 × 30 mm (4.33 × 2.76 × 1.18 in)
Weight	202g. (Batteries are Included)
Installation	Wall Screw Mounting, 3M Tape Mounting, Cable-tie Mounting

* Tested under laboratory conditions and for guideline purposes only.

*All logos & trade marks represent the registered users only. All rights reserved.

*All product specifications on this brochure are subject to change without notice.

CANADA:
351 Ferrier Street Unit 5
Markham, Ontario L3R 5Z2
Tel: 416-410-6865
Toll Free: 1-866-843-6865

USA:
171 Cooper Ave.
Suite 110 Tonawanda,
NY 14150 USA
Tel: 1-716-877-7277
Toll Free: 1-866-843-6865

MIDDLE EAST:
PO Box No 126312
Office Suite 703 Oxford Tower
Business Bay Dubai, UAE
Tel: + 971 4 2767117



www.watchnetiot.com
info@watchnetiot.com