Outdoor Asset Tracker Featuring LoRaWAN® ATIOI



Milesight AT101 is an exceptional outdoor tracker that utilizes GNSS and Wi-Fi AP MAC Address Scanning to provide highly accurate positioning data. Additionally, it has tilt and temperature sensors for more extensive data collection and application in various scenarios. The device is designed with IP67 and IK09 ratings to cater to different environments.

Milesight

AT101 collaborates with Milesight LoRaWAN® gateway and mainstream LoRaWAN® network servers with low power consumption, allowing it to operate for over 15 years with twice-daily reports. By integrating with Milesight LoRaWAN® gateway and Milesight IoT Cloud solution, users can remotely and visually manage all sensor data.

Features

- > Equipped with high-accurate GNSS positioning and cooperate 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 works 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 Milesight IoT Cloud solution

Specifications

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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	

Operation		
Power On & Off	NFC, Power Button (Internal)	
Configuration	NFC, Bluetooth [®] 5.3	
Physical Characteristics		
Power Supply	4×2700 mAh ER14505 Li-SOCl ₂ 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	
	-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.



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