



APPLICATIONS :

- Container (ISO tank) tracking
- Asset tracking

FEATURES :

- Large capacity battery
- Compact design; minimum installation effort
- Stand-by time up to 1 year under motion trigger mode
- Tracking once an hour under timer control mode, operation time up to 50 days
- Pin point cell location
- AGPS support to improve GPS fixing time
- IP-67 waterproof housing

AT-9000 SPECIFICATIONS

Mechanical Characteristics

Dimension (L x W x H)	108 x 92 x 32 mm (±2 mm)
Weight	TBC
Material	Anti-UV Plastic housing
Waterproof	IP-67 waterproof standard
Power Switch	Smart power switch design without physical button for secure tracking

Environmental Characteristics

Operation Temperature	-20°C ~ +60°C
Storage Temperature	-40°C ~ +85°C

NOTE: Battery has individual operational and storage temperature limitations!

Battery Characteristics

Backup Power	9,000mAh Li-Ion cell battery 3.7V	
Battery Temperature Limitation	Operation Temp.	-20°C ~ +60°C
	Storage Temp.	-40°C ~ +85°C
Charging Connector	Charging cable	

NOTE: Must use factory travel charger provided!

NOTE: Do NOT connect to PC/NB for charging!

AT-9000

LONG OPERATION CONTAINER TRACKER

General Characteristics

3-Axes Accelerometer	±16G (default)	
LED	Blue	GSM
	Red	Power
	Orange	GPS
	Green / Red	Charging Status (charging / charge complete)
	Optional discrete infrared LED available	

Electrical Characteristics

All specifications are at an ambient temperature of 25°C. Extreme operating temperatures can significantly impact specification values.

Power Supply Requirements	3.7 V _{dc}	
Battery Capacity	9,000mAh Li-Ion cell battery 3.7V	
Power Consumption	Transmitting	200 mA
	Normal	70 ~ 90 mA
	Idle	2 ~ 4 mA
	Sleep	0.1 ~ 0.4 mA

Accessories

Standard In-box Package	Travel Adapter
	USB Charging Cable
	Water/Dust Proof Charger Cap
	Warranty Seals
Optional Accessory	Magnets
	U2S Configuration Cable (purchase separately) – Sample Package

GPS SPECIFICATION

General Specifications

Receiver	GPS L1C/A
	SBAS L1C/A
	QZSS L1C/A
Channels	56 Channels

Time to First Fix⁽¹⁾

Cold Start	30 s
Warm Start	28 s
Hot Start	1 s
Aided Starts ⁽²⁾	< 5 s

Sensitivity⁽³⁾

Tracking Sensitivity	-161 dBm
Navigation Sensitivity	-161 dBm
Re-Acquisition	-160 dBm
Cold Start	-147 dBm
Warm Start	-148 dBm
Hot Start	-155 dBm

Horizontal Position Accuracy⁽⁴⁾

Autonomous	2.5 m
SBAS	2.0 m

Operation Limits⁽⁵⁾

Altitude	50,000 m
Velocity	500 m/s
Dynamics	≤ 4 g

⁽¹⁾ All satellite at -130 dBm

⁽²⁾ Dependent on aiding data connection speed and latency

⁽³⁾ Demonstrated with a good external LNA

⁽⁴⁾ CEP, 50%, 24 hours static, -130 dBm, > 6 SVs

⁽⁵⁾ Assuming airborne < 4 g platform

⁽⁶⁾ 50% @ 30 m/s

AT-9000

LONG OPERATION CONTAINER TRACKER

GSM SPECIFICATION

General Specifications	
Mobile Station Class	Class B
GSM / GPRS Bands	GSM 850 MHz
	E-GSM 900 MHz
	DCS 1800 MHz
	PCS 1900 MHz
Packet Switched Data Rate	GPRS multi-slot class 10
	Coding scheme CS1 – CS4
	Up to 85.6 kb/s DL
	Up to 42.8 kb/s UL
Features	Embedded TCP/IP, UDP/IP, HTTP/FTP protocols
	Network Jamming Detection
	CellLocate & Hybrid Positioning

