



Asset Tracker --TC86

- › More than 10 Years Life Time.
- › Rich Sensor Options
- › IP66 Waterproof

Pretrace's Asset Tracker TC86 is a ultimate solution for seamless tracking and monitoring of your valuable assets. With its excellent communication capabilities over Satellite / 4G / CAT M / NB-IoT / LoRaWan / Sigfox, this versatile tracker comes in three versions to cater to all your tracking needs.

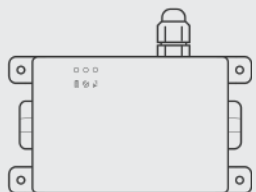
The non-rechargeable version TC86-N ensures long-lasting performance. For those who require frequent tracking updates, the wireless recharged version TC86-Q is perfect for you. Need real-time tracking and additional functionality? Look no further than our external power input version. With three inputs/outputs, you have the flexibility to customize and enhance your tracking experience according to your specific requirements.

Advantages:

- Communication over Satellite / 4G / Cat M / NB IoT / LoRaWan / Sigfox.
- More than 10 years working time (with non-rechargeable battery).
- IP66 waterproof level, fit for outdoor applications.
- Inbuilt 3-axis accelerometer for motion and tilt detection.
- Inbuilt gnss antenna and network antenna, optional external antennas.
- Backup positions memory for failed reporting.
- FOTA(Firmware-Over-The- Air).
- Optional Temperature and Humidity sensor for cold chain usage.
- Optional Distance sensor for Distance/Level measurement.
- Optional Radar sensor for Human moving detection.



TC86 Specification

Model	TC86-N	TC86-Q	TC86-S
Shape			
Bands/Regoins			
-4:	LTE FDD: 1, 3, 5, 7, 8, 20, 28 OR 2, 3, 4, 5, 7, 8, 28, 66 OR 1, 2, 3, 4, 5, 7, 8, 12, 13, 17, 18, 19, 20, 25, 26, 28, 66 GSM: 2, 3, 5, 8		
-M:	Cat M1/Cat NB1/Cat NB2: 1, 2, 3, 4, 5, 8, 12, 13, 17, 18, 19, 20, 25, 26, 27, 28, 66		
-N:	Cat NB2: 1, 2, 3, 4, 5, 8, 12, 13, 17, 18, 19, 20, 25, 28, 66, 70, 85		
-L:	LoRaWan: EU868, US915, AU915, AS923, KR920, IN865		
-S:	Sigfox: RCZ1, RCZ2, RCZ3, RCZ4, RCZ5, RCZ6, RCZ7		
-T:	IoT NTN (Satellite connectivity): L-Band(B255), S-Band(B256, B23)		
GNSS			
GNSS Systems	GPS, BDS/GLONASS, Galileo, QZSS		
Sensitivity	160 dBm		
Position Accuracy	< 5m		
TTFF	Cold Start: < 28 Sec, Hot Start: 2 Sec		
Optional Sensors			
Temperature&Humidity	Range: -45.0 ~ +85.0 °C	Application: Environmental monitoring, Cold chain	
PT100 sensor	Range: -200.0 ~ +180.0 °C	Application: Cryogenic refrigeration, Medical transport	
Distance Sensor	Range: 3~400 cm	Application: Tank/Containner/Trash Bin/Sewer monitoring	
Microwave Sensor	Range: 5~400 cm	Application: Human detection, Hunting trap	
Leakage Sensor	Application: Water/Liquid leakage detection (non-touching)		
Power			
Battery Capacity	3.6V 12000 mAh	3.7V 5200 mAh	3.7V 5200 mAh
Charger / Input Power	None	5V 500mA QI wireless charger	11.2-36V / 2A DC
Battery Life	>10 Years(1 Report / Day)	>20 Days(1 Report / 10 Minute)	No limitation @ external power
	>6 Years(2 Report / Day)	>115 Days(1 Report / Hour)	>110 Days(1 Report / Hour)
General			
Dimension	103*58*35 mm	103*58*35 mm	103*83*35 mm
Weight	180g	200g	215g
Operating Temperature	-40°C ~ +85°C	-40°C ~ +85°C	-40°C ~ +85°C
Working Current	30mA~100mA @3.6V	30mA~100mA @3.7V	10mA~35mA @12V
Sleeping Current	45μA	45μA	55μA
Protocol	TCP/UDP/MQTT	TCP/UDP/MQTT	TCP/UDP/MQTT
Log Saving	2000 pcs	2000 pcs	2000 pcs
SIM Type	Nano Sim	Nano Sim	Nano Sim
Interface	Digital input/Analog input/RS485	Digital input/Analog input/RS485	Digital input/Analog input/RS485

