

Indoor/Outdoor Multi-Purpose Tracker with Extended Battery Life



-  Multi-mode location technology
-  Rugged & compact IP67-rated housing
-  Power-saving mode optimizes battery life
-  6-axis accelerometer for precision movement alerts
-  BLE support for accessories
-  Multiple mounting options

Tracking Across Environments

Multi-mode location technology transitions seamlessly between outdoor GNSS and indoor Wi-Fi/cellular positioning, maintaining visibility regardless of asset location.

Built for Real-World Conditions

IP67-rated protection ensures reliable operation in extreme conditions, and multiple mounting methods (screw or magnetic) provide installation flexibility across use cases.

Zero-Downtime Power Management

Power Saving Mode extends operational life in low-activity scenarios, while a built-in sensor monitors battery capacity, reducing service delays and operational costs.

Intelligent Motion Detection

6-axis accelerometer identifies movement patterns, enabling smart alerts for unauthorized movement and optimizing battery life during stationary periods.

The Suntech ST4230

The ST4230 is a versatile, rugged asset tracker designed for indoor and outdoor use. The compact IP67-rated form factor, user-friendly design, and advanced tracking technologies make it ideal for vehicles, equipment, and other high-value assets. Combining GNSS, Wi-Fi scanning, and cellular tower triangulation, the ST4230 ensures continuous tracking across environments where traditional GPS-only devices struggle.

Specification

Wireless Communication

Cellular Connectivity	LTE Cat.M1
Operating Frequency	LTE Cat M1: B1/B2/B3/B4/B5/B8 /B12/B13/B18/B19/B20/B25/B26 /B27/B28/B66/B85
Transmission Protocol	TCP/UDP
Bluetooth	BLE 5.4 (2.4 GHz)
Wi-Fi	Wi-Fi 6 (2.4 GHz)

GNSS Specifications

Receiver Type	GPS + GLONASS concurrent GPS L1 C/A, QZSS L1 C/A/S, GLONASS L10F, BeiDou B1I/B1C, Galileo E1B/C, SBAS: WAAS, EGNOS, MASA, GAGAN AGPS Optional
Positioning Accuracy	1.5 m CEP
Update Rate	18 Hz (Single GNSS) / 5 Hz (4 concurrent GNSS)
Cold / Warm start (TTFF)	Cold < 24 s, Warm < 2 s
Hot Start (TTFF)	< 1 s
Tracking Sensitivity	Tracking: -167 dBm / Reacquisition: -161 dBm Acquisition: -149 dBm

Optional Features

Tamper Detection	Alerts for unauthorized movement or removal
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Physical & Hardware

Dimensions	63 x 94 x 18 mm / 2.4 x 3.7 x 0.7 in
Weight	65 g (without battery), 100 g (with AA batteries)
LED Indicators	GNSS (Red), Cell (Blue), Battery (Red/Green), Wi-Fi/BLE (Red)
Motion Sensor	Built-in 6-axis accelerometer
User Interface	On/Off button, SIM card slot, charger port
SIM Card	Nano SIM (4FF)

Battery & Power

Battery Type	2 x Ultimate Lithium AA batteries (user-replaceable)
Active Mode Power Consumption	200 mA (LTE Cat M1), 40 mA (GPS)
Deep Sleep Mode	< 70 µA @ 3.6V
Safety Note	Dispose of lithium batteries responsibly

Environmental Specs

IP Rating	IP67 – dustproof and waterproof
Operating Temperature	-25°C to +60°C

Certifications & Region

Certifications	FCC, PTCRB, CE (TBD)
Region Support	USA, LATAM, EU