






Suntech ST4280

Long-Range, Battery-Powered Asset Tracker



-  Up to 5-year battery life with a ping a day
-  IP67-rated housing for harsh environments
-  Track assets indoors and outdoors – no location gaps
-  Instant alerts on unauthorized movement or tampering
-  Add sensors or connect BLE beacons without extra hardware

Trailer & Container Management

Know where every trailer and container is – at the yard, in transit, or sitting at a customer location. Multi-mode positioning keeps assets visible whether they're parked inside a warehouse or moving down the highway.

High-Value Asset Protection

Protect machinery, specialty vehicles, and equipment from theft and unauthorized use. Tamper detection and motion alerts notify you the moment something moves or is accessed without authorization.

Remote & Off-Grid Equipment

Track generators, compressors, and field equipment deployed far from the office. An ultra-high capacity primary battery with deep sleep mode keeps it reporting daily for months without a service visit to swap power.

Mixed Fleet & Multi-Site Operations

One tracker that works across asset types and environments. Screw, magnet, or zip-tie mounting installs on anything. BLE sensor support extends visibility to temperature, driver ID, and more without additional devices.

The Suntech ST4280

The ST4280 is built for assets that move through the real world – across job sites, warehouses, and environments where GPS alone isn't enough. Multi-mode positioning combines GNSS, Wi-Fi, and cellular triangulation to maintain accurate location indoors and out. A high-capacity primary battery with deep sleep power management keeps it running for months without a service visit, while IP67-rated housing and flexible mounting options make it at home on trailers, containers, vehicles, or virtually any piece of equipment worth protecting.

Specification

Wireless Communication

Connectivity	LTE Cat. M1 / NB-IoT
Bluetooth	BLE 5.4 (2.4 GHz)
Wi-Fi	Wi-Fi 6 (2.4 GHz)
Protocol	TCP / UDP
Backup Server	Dual IP support

Battery & Power

Battery	Primary 3.6V, 17Ah
Active (LTE Cat M1)	200mA
Active (GPS)	40mA
Deep Sleep	70µA @ 3.6V

Environmental Specs

IP Rating	IP67-rated dustproof and waterproof
Operating Temperature	-25°C to +70°C / -13°F to 158°F

Additional Features

Tamper Detection	Light sensor alerts on unauthorized housing access
OTA Updates	Remote firmware upgrades via over-the-air delivery
Data Storage	Up to 2,000 locations retained during connectivity loss
Configuration	Via 4G, SMS, or PC tool

Physical & Hardware

Dimensions	110.9 × 59 × 38.5mm / 4.3 × 2.3 × 1.5 in
Weight	220g / 7.76 oz
LED Indicators	GNSS (Red), CELL (Blue), BAT (Red/Green), Wi-Fi/BLE (Red)
Motion Sensor	6-axis accelerometer
User Interface	SW on/off indicator window; pinhole switch for device status
SIM Card	Nano SIM (4FF)
Mounting Options	Screw, magnet, zip-cable tie

GNSS Specifications

Receiver Type	GPS + GLONASS concurrent; BeiDou, Galileo; SBAS: WAAS, EGNOS, MSAS, GAGAN; *AGPS optional
Positioning Accuracy	±1.5m CEP
Cold Start (TTFF)	< 24s
Warm Start (TTFF)	< 2s
Hot Start (TTFF)	< 1s
Tracking Sensitivity	Tracking -167 dBm / Reacq. -161 dBm / Acq. -149 dBm

Certifications & Region

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