

| Product name | Description  | Version |
|--------------|--|---------|
| LOCOSYS A30U | 4G-LTE GNSS Smart Tracker With Dead Reckoning Function | 1.0     |



## 1 Introduction

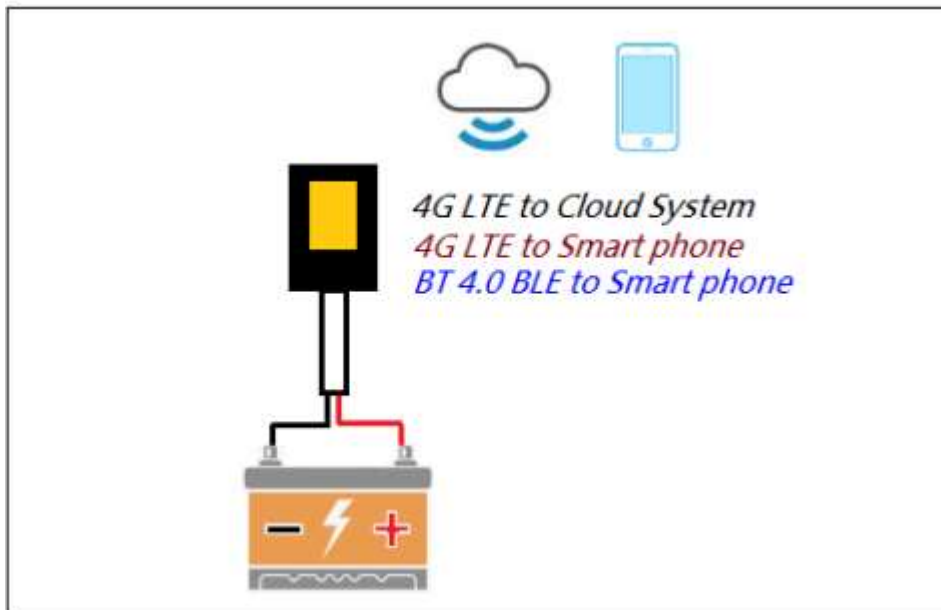
LOCOSYS A30A-DB/DG 4G-LTE GNSS smart tracker is a fully-featured, highly competitive and cost effective end product. Equipped with Dead Reckoning software to boost the positioning accuracy, the 4G-LTE GNSS smart tracker fulfills seamless navigation even in adverse GNSS conditions like urban canyons, tunnels, or parking garages. Small in size, robust design with IP67 waterproof casing, ABS heat resistant shell and super smart power management make this GNSS tracker perfect to be a human use tracker, a fire fighter positioning device, police search team or geological survey.

## 2 Feature

- Data communication by SMS/GPRS/UDP/TCP/HTTPS
- Roaming preference settings
- Tracking (by time interval, distance interval or smart mode)
- Geo-fencing report (circular, rectangular, polygonal)
- LOCOSYS Dead Reckoning technology inside
- Configurable power management
- Emergency, Speeding, Towing alerts, Power low/lost alert
- Device configuration over the air
- IP 67 waterproof casing
- 4G-LTE jammer detection

- Cell locator (AGPS)
- OBD information include (Speed, Water temperature, Engine RPM, Battery power, Instant fuel consumption)
- 4G-LTE and adopted by most major telecom SIM card worldwide.
- Easy to install and compatible with most vehicle models.
- Standby time last to over 24hr.
- High temperature resistance, great water resistance and close invisible installation.
- Provide real-time GNSS data and seamless positioning even in harsh environment.

### 3. Application Block Diagram



#### 4. Specification

| <b>Hardware Specification</b> |   |
|-------------------------------|---|
| Communication Technology      | 4G -LTE   |
| Dimensions (L x W x H)        | 93mm x 57mm x 22.5mm  |
| Operating Temperature         | -20 °C~+85 °C (without battery)   |
| GNSS Receiver                 | Support GPS,BDS,GALILEO and QZSS<br>Fast TTFF at low signal level<br>Capable of SBAS (WAAS, EGNOS, MSAS, GAGAN) |
| Built-in Software             | Support Dead Reckoning function   |
| Frequency Bands               | 4G LTE B1/B3/B7/B8/B20  |
|                               | WCDMA/HSPA+ B1/B8   |
|                               | GSM/GPRS/EDGE 900/1800 MHz  |
| Power Source                  | DC 5~35V, Wide Input voltage range  |
| Power Consumption             | 45mA @ DC12V in Normal Mode   |
|                               | <3mA @ DC12V in Sleep mode  |
|                               | Ultra-low Power mode <0.1mA @ DC 12V  |
| Memory Capacity               | Store over 250000 Log reports for logging   |
|                               | Maximum 40000 Queue messages for event  |
| Digital negative outputs      | 3 digital negative outputs  |
| GNSS Antenna                  | Built-in antenna  |
| 4G/3G/2G Antenna              | Built-in antenna  |
| Built-in G-sensor             | ±8G   |
| Output                        | RS-232 port   |
| Battery                       | 800 mA Li-ion Battery   |
| BT(Optional)                  | Bluetooth 4.0 BLE   |

## 5. Recommended Mounting

5.1 Tracker MUST mount horizontally on vehicle (when the vehicle is on a level surface) and toward the front of vehicle.

