

Product name	Description	Version
LOCOSYS A30A-DB LOCOSYS A30A-DG	4G-LTE GNSS Smart Tracker With Dead Reckoning Function	1.0



1 Introduction

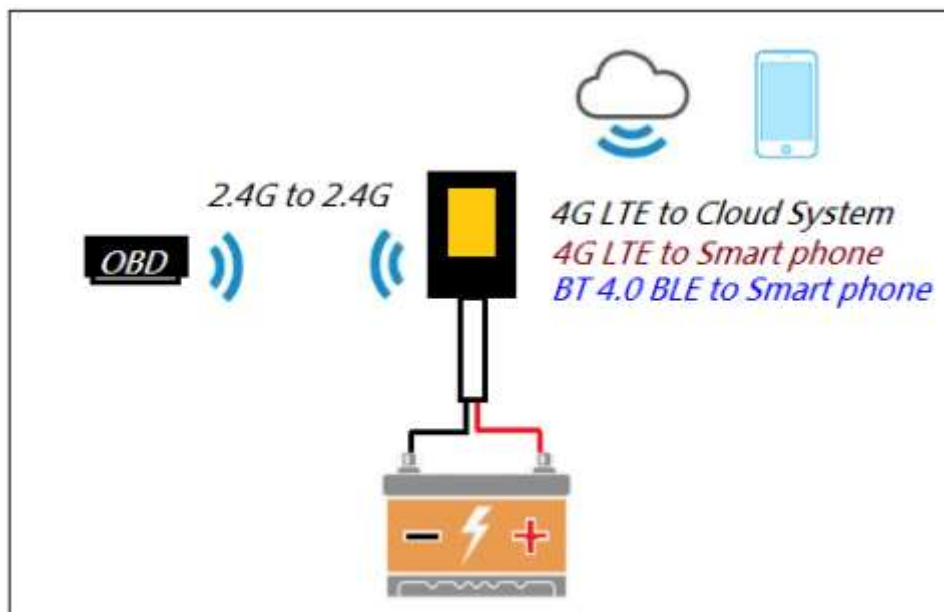
LOCOSYS A30A-DB/DG 4G-LTE GNSS smart tracker is a fully-featured, highly competitive and cost effective end product. Equipped with Dead Reckoning software to boost the positioning accuracy, the 4G-LTE GNSS smart tracker fulfills seamless navigation even in adverse GNSS conditions like urban canyons, 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

Hardware Specification	
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, GLONASS, GALILEO, BDS ⁽¹⁾ and QZSS Fast TTFF at low signal level Capable of SBAS (WAAS, EGNOS, MSAS, GAGAN)
Built-in Software	Support Dead Reckoning function ⁽²⁾
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
OBDII (Option)	Speed ⁽³⁾ Water temperature Engine RPM Battery power Instant fuel consumption
Built-in G-sensor	±8G
Output	RS-232 port
Battery	800 mA Li-ion Battery
BT(Optional)	Bluetooth 4.0 BLE

Note1:If you need BDS,please consult our sales.

Note2:Please see page 4 for mount.

Note3:Dead Reckoning function must has the speed information.

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. (Default is standard installation method)

5.2 If the module is not mounted as the above figure, please consult our sales.

