

LA70 & LA71

Product Specifications



LA7x Series

LTE Assets Trackers with IP67 grade

The LA7 Series assets trackers are targeted for modern tracking applications featuring: LTE cellular technologies, multi-constellation GNSS, Bluetooth Low Energy, Wi-Fi based positioning, and an IP67 grade (enabling outdoor-usage applications), among other highlights.

Without losing the focus on cost, the family (composed by LA70 and LA71) is ready for applications where an autonomous robust IP67 device with high internal battery autonomy is required, such as heavy-machinery monitoring, backup vehicular tracker, outdoor assets tracking, etc.

Applications & Industries

- Heavy-machinery leasing
- Hidden vehicular backup tracker
- Chemical toilet rental
- Power generators usage
- Container tracking
- Trash-can tracking

Software

- FOTA
- Asset static/movement detection
- Multiple configurable events and alarms
- Offline buffer:
 - LA70/71: 700KB (~7K packets)
 - LA70/71M: 1.2MB (~12K packets)

General Specifications

- Internal battery: 7,800 mAh Li-SoCl₂ non-rechargeable (replaceable)
- Power Consumption:
 - ≤ 80uA Standby Mode
- Status leds: 3
- Internal antennas
- Nano-SIM
- Internal ON/OFF switch

Cellular variants

- LA70/71-[region]: 4G/2G [LA, EM, NA, CN]
- LA70/71M: CatM1/NB-IoT/2G [global]

GNSS

- GPS/GLONASS/Beidou

RF

- BLE 5.0
- Wi-Fi 2.4GHz scan (positioning only)

Sensors

- 3-Axis Accelerometer ($\pm 2g/\pm 4g/\pm 8g/\pm 16g$)
- Light level (0-1000, no unit)

GPIOs and buses

- USB port

Operational

- Operating Temperature: -20°C ~ +70°C

Mechanical

- IP67
- Material: ABS
- Dimensions: 138mm x 72mm x 22mm
- Weight: ~192g
- Mounting
 - LA70/M: Bolts
 - LA71/M: Bolts and magnetic