



LG2x Series

LTE Goods Trackers with Temperature and Humidity Sensors

The LG2 Series goods trackers are targeted for modern tracking applications featuring: LTE cellular technologies, multi-constellation GNSS, Bluetooth Low Energy, Wi-Fi based positioning, and temperature & humidity sensors, among other highlights.

Without losing the focus on cost, the family (composed by LG20) is ready for applications where a rechargeable device with high internal battery autonomy is required, such as cold-chain monitoring, general goods & assets tracking, people tracking, etc.

Applications & Industries

- Cold-chain traceability (food & beverage, pharma industries)
- Personal tracker (industries safety-applications, children, and elders tracking)
- Luggage, bags, and other valuable small assets tracking

Software

- FOTA
- Asset static/movement detection
- Multiple configurable events and alarms
- Offline buffer:
 - LG20: 700KB (~7K packets)
 - LG20M: 1.2MB (~12K packets)

General Specifications

- Internal battery: 2,500 mAh Li-ion rechargeable
- Power Consumption:
 - ≤ 80uA Standby Mode
- Status leds: 2
- Internal antennas
- Nano-SIM
- ON/OFF switch.

Cellular variants

- LG20-[*region*]: 4G/2G [LA, EM, NA, CN]
- LG20M: CatM1/NB-IoT/2G [global]

GNSS

- GPS/GLONASS/Beidou

RF

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

Sensors

- 3-Axis Accelerometer ($\pm 2g/\pm 4g/\pm 8g/\pm 16g$)
- Temperature ($\pm 0.5^{\circ}\text{C}$, $-20^{\circ}\text{C} \sim +70^{\circ}\text{C}$)
- Humidity ($\pm 2\%$ RH @ $+10^{\circ}\text{C} \sim +70^{\circ}\text{C}$)
- Light level (0-1000, no unit)

GPIOs and buses

- USB port (configuration & charging)

Operational

- Operating Temperature: $-20^{\circ}\text{C} \sim +70^{\circ}\text{C}$

Mechanical

- IP54
- Material: ABS
- Dimensions: 121mm x 61mm x 8mm
- Weight: ~90g