

Rugged BLE/GPS/LTE Tag for Tracking Assets Indoors and Outdoors



The AiRISTA A67 asset tag is ideally suited for tracking assets in harsh outdoor environments or when in transit. The A67 provides GPS tracking together with cellular connectivity for visibility around the globe. As a Bluetooth® Low Energy (BLE) gateway, the tag provides indoor location and collects telemetry from area sensors.

Industry-Leading Location Versatility

The rugged enclosure and variety of attachment mechanisms makes this tag ideal for tracking assets outdoors. Placed on containers, goods in transit can be monitored for location, damage, and theft. Concurrent GPS positioning systems and automatic roaming between LTE-M and NB-IoT help ensure accuracy and reliability.

Seamless Indoor-Outdoor Tracking

Once indoors, the A67 tag detects BLE anchor points like wireless access points or AiRISTA BLE gateways to calculate location. Rules and alerts are managed from AiRISTA's RTLS software platform, *sofia*. From *sofia*, locations are updated on maps and movements are recorded. When at rest, the tag hibernates to conserve batteries, waking occasionally to collect instructions from *sofia*.

Benefits

- Centralized view to the location of goods whether indoors, outdoors, or in transit.
- Smart power management provides up to 10 years battery life.
- Field replaceable batteries.
- Rugged design against impact and water.
- Choice of roaming SIM providers.

Features

- Concurrent GPS, GLONASS, Galileo, QZSS, Beidou positioning for accuracy and faster fixes.
- Automatic roaming between LTE-M and NB-IoT networks.
- Cell tower location fallback for positioning when GPS can't get a fix.
- Bluetooth® Low Energy gateway for indoor tracking and sensor collection.
- Adaptive tracking and sleep mode for up to 10 years battery life.
- Geofencing and alerts to tips & jolts.
- Centrally managed through the *sofia* RTLS software platform.
- Historic tracking of movement for accounting and utilization.
- Rugged waterproof design rated IP68 and IK07.
- Field replaceable 3x AA off the shelf Lithium batteries with low battery alerts.
- Internal Nano 4FF SIM.

Cellular Radio

LTE-M / NB-IoT
LTE-M (Cat-M1) Bands: B1, B2, B3, B4, B5, B8, B12, B13, B14, B17, B18, B19, B20, B25, B26, B28, B66
NB-IoT (Cat-NB1/NB2) Bands: B1, B2, B3, B4, B5, B8, B12, B13, B17, B19, B20, B25, B26, B28, B66

BLE Radio

Bluetooth® Low Energy 5.2 gateway

GPS Radio

GNSS module
Constellation: Concurrent GPS, GLONASS, Galileo, QZSS, Beidou
Tracking Sensitivity -149 dBm cold start/-163 dBm hot start
Location accuracy: ~1m 2D RMS, GPS, -130dBm (ideal conditions)
GNSS almanac & ephemeris position assistance

Battery Life

Replaceable Battery 3x AA Lithium (LiFeS2)
Once-daily updates = 10+ years
Movement-based updates = 6+ years
Hourly updates = 3.5+ years

User Interface

Diagnostic LED

Power

Input Voltage 3V – 5.5V DC
Sleep Current <10uA (avg current in lowest power configuration)
Safety: reverse polarity protection

Environment

Operating Temperature: -30 °C to +60 °C

Physical

Dimensions: 108 x 86 x 30 mm (4.25 x 3.39 x 1.18 in)
Weight: 173g
IP/IK: IP68 waterproof, IK07 impact
3-Axis Accelerometer
Flash Memory: storage capacity for 20 days of continuous 2-minute logging
Ambient Temperature Reporting

Security

AES-256 Encryption and HTTPS

Warranty

One Year Warranty

Certifications

ACMA, CE, IKCA

Part Number

A67

*Specifications subject to change without prior notice.