Product Summary

A rugged, battery-powered tilt and location tracking device that detects orientation changes using an onboard tilt/gyro sensor and reports events and GPS location via 4G cellular. Configurable heartbeat and reporting logic minimize power usage while ensuring timely alerts.

Designed for long-lasting, maintenance-free operation, the tracker is ideal for monitoring asset movement, detecting unauthorized access, and ensuring infrastructure safety. Its compact design and reliable 4G connectivity make it suitable for applications such as smart construction site monitoring, equipment tamper detection, outdoor asset tracking, and utility infrastructure security.

Sensing

| Tilt Sensor | Gyroscope* | GPS Module |

| Temperature / Humidity* |

Wireless Technology

4G   NB-IoT *

Features

High Reliability
Rugged design with industrial-grade components

Tilt & Motion Detection
Angle changes, tamper, unauthorized movement

Easy Surface Mounting
Compact form factor with simple surface mounting

Universal Compatibility
Works seamlessly with all 4G LTE-M/NB-IoT networks

Integrated GPS Tracking
Real-time geolocation with configurable reporting

Built-in lithium battery
Up to 01+ years depending on settings

Optional Condition Monitoring
Expandable sensing temperature, humidity, vibration

Flexible Uplink Modes - Threshold Based Event Based

Optional Onboard Data Buffering
To prevent data loss in case of network downtime

Secure Communication
Encrypted data transmission & unique pre-configured Ids

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Specifications

Measurement

Sensing Type	3-axis accelerometer
Event Tracking	Timestamped logging of tilt, motion, or open/close events
Condition Monitoring	Configurable threshold-based event detection (e.g., vibration)
Alert Options	Tilt threshold exceed, movement detection, unauthorized opening, periodic status

GPS Module

Positioning System	Integrated GNSS (GPS/GLONASS/Galileo/BeiDou)
Accuracy	Up to ±2.5 m CEP (open sky)
Cold Start	< 35 seconds (typical)
Hot Start	< 2 seconds
Data Output	Latitude, Longitude, Timestamp

Wireless Transmission

Antenna	Internal / External high-gain LTE antenna (configurable)
Supported Bands	Global LTE bands (B1 / B2 / B3 / B4 / B5 / B7 / B8 / B12 / B13 / B18 / B19 / B20 / B25 / B26 / B28 / B66, regional variants available)
Tx Power	23 dBm (LTE) / 33 dBm (GSM fallback)
Sensitivity	−108 dBm (LTE Cat-1 typical)
Activation	eSIM / M2M SIM (secure provisioning supported)
Network Protocols	MQTT / HTTPS
Fallback Modes	Automatic fallback to 2G (region specific)

Led Status

LED Type	1 Internal Multi-Color LED
Solid Blue	Device is connected with Maya App
Flashing Blue	OTA (Over-the-Air) update in progress
Slow Blinking Green	Attempting to connect to the LoRaWAN® network
Single Red Blink	A confirmed parameter of MacSync is being modified

Configuration

Configuration	Via Macnman Maya Android App
Maya Fatures	Threshold / Trigger / Sample based alarm triggers
Stored Records	30,000 Records (accessible via Maya) (optional)
Remote Configuration	Yes - JSON format Data

Physical Characteristics

Power Supply	Inbuilt Battery - 3600 mAh X 2
Operating Temp	-40°C to +80°C
Humidity Range	0% to 100% RH (non-condensing)
Ingress Protection	IP68 standard
Housing Material	ABS Plastic
Color	Matte Black
Weight	~ 120g (with battery)
Dimensions	96 mm X 96 mm X 23 mm (customizable branding available)
Installation	Surface-mounted type

Device Dimensions

96 mm

96 mm

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