



MBM04 Location Relay Beacon

Turn Vague Zones into Pinpoint Clarity with Decade-Long Power.

The MBM04 is a powerful, spatial-aware hub designed to deliver precise, cost-effective, and future-ready positioning for your operations. It acts as an Anchor, Relay, and Beacon, achieving high-accuracy tracking (1–3m) by forwarding data from up to 100 tags. Engineered for reliability, the MBM04 features a rugged IP67 design and a 10-year maintenance-free operation to eliminate labor costs and downtime. Its powerful relay functionality and ultra-low-power radio reduce gateway deployment by 50% while supporting Bluetooth 6.0 Channel Sounding for future upgrades. Simply place the MBM04 for instant wireless setup, making it the engine of growth for your spatial intelligence needs.

KEY FEATURES ►



Spatial Intelligence

MBM04 upgrades vague zone tracking to 1–3 m accuracy and forwards data from up to 100 tags, cutting search time and reducing gateway deployment.



Navigation, Automation & Tracking

As a standalone Bluetooth beacon, MBM04 enables reliable turn-by-turn indoor navigation, triggers location-based alerts and notifications, and can be mounted on movable assets to broadcast ID and enable continuous real-time tracking.



The Engine of Reliability and Future Growth

Powered by the nRF54L15 chipset, MBM04 combines ultra-low power, a strong +8 dBm signal for challenging RF environments, and Bluetooth 6.0 Channel Sounding for future centimeter-level accuracy.



10-Year Power

Maintenance-free operation for a decade with an industrial-grade, replaceable battery—cutting labor, downtime, and long-term cost.



IP67 Industrial Durability

Rugged IP67 casing ensures reliable performance in harsh environments, with protection against dust, dirt, and water immersion.

APPLICATION SCENARIOS ►



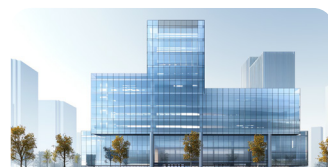
Large Warehouses



Hospital Equipment Flow



Workplace Safety



Smart Building

Active Safety and Instant Location Control

The MBM04's interactive features boost visibility and safety:



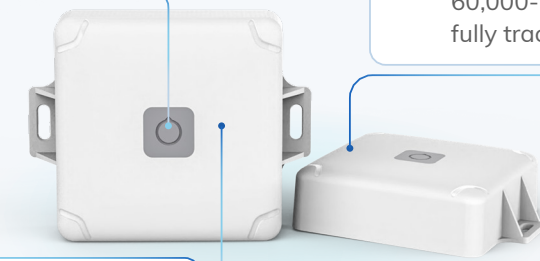
Programmable button: Triggers instant panic alarms and manual location check-ins.



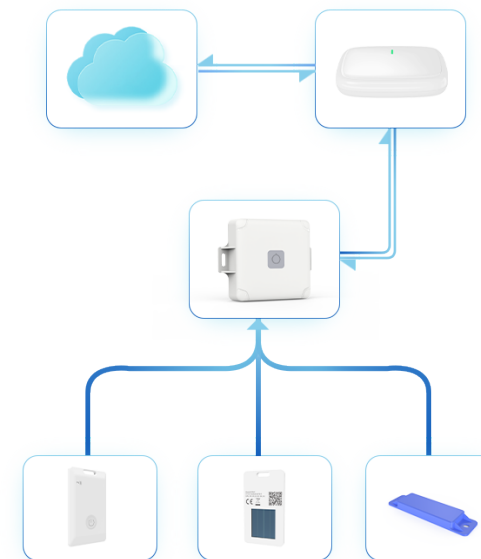
Accelerometer & Offline Memory: The accelerometer detects movement while 60,000-record memory ensures assets stay fully traceable even offline.



RGB Light Indicator: Clear visual prompts guide personnel directly to the device.



How it works



Quick Deployment

For instant setup, simply position the MBM04 based on coverage needs, and it instantly functions as a wireless Anchor and Relay.

Data Flow & Tracking

The MBM04 forwards location data from nearby asset and personnel tags to the gateway. When installed on a movable asset, it also reports its own positional data to ensure comprehensive and precise tracking of all items.

Actionable Intelligence

Real-time positional data is delivered to your platform for immediate analysis and actionable alerts.

Specifications

| | | |
|-------------|-----------------------|---------------------------------------|
| Basic Info. | Model | MBM04 |
| | Battery | 10,800mAh (Li-SOCl ₂) |
| | Service Life | 10 years |
| | Operating Temperature | -40°C ~ +80°C |
| | Operating Humidity | 0% ~ 99% RH |
| | Sensor | Accelerometer sensor |
| | Configuration | MinewLink App or remote configuration |
| | LED Indicator | RGB |
| | Button | Power on / button alarm |
| | | |

| | | |
|------------------|------------------------|---|
| Bluetooth Specs. | Bluetooth Version | Bluetooth® LE 6.1 |
| | Broadcasting Power | 0dBm (-40dBm ~ +8dBm) |
| | Data Transmission Rate | 1Mbps (125Kbps / 1Mbps) |
| | Broadcast Range | 150m (standard) / 600m (long-range) in open field |
| | Scanning Range | 100m (open field) |

