

MT 5000

Reliable small craft tracking for safety, security and compliance.

Ensure secure, consistent and reliable vessel location for complete fleet visibility.



Created for small-craft fleet operators, maritime authorities and enforcement agencies, the MT 5000 delivers vessel location data, maximizing maritime safety, security and environmental compliance.

Tri-mode location broadcasting

The MT 5000 is a CLASS B transmitter, broadcasting Automatic Information System (AIS) messages to nearby vessels and coastal AIS stations, along with ORBCOMM's satellite AIS network. But the MT 5000 also communicates with ORBCOMM's satellite M2M network, creating the world's first tri-mode vessel tracker. This unique combination delivers more reliable and comprehensive fleet location data. The MT 5000 brings the power of reliable tracking to smaller vessels.

Actionable intelligence

With its dual satellite data sources and terrestrial data partnerships, ORBCOMM offers the most comprehensive AIS data in the industry. Data from the MT 5000 is platform-agnostic and delivered via a simple API to customers, partners and resellers for easy integration into monitoring systems. A Bluetooth interface permits downloading of tracking data and configuration via smartphone. An alert light on the device also informs vessel staff if the craft has entered specified zones.

Emergency notification

Finding a vessel in distress quickly is critical to mitigating the effects of maritime accidents. The MT 5000 features an alert button that communicates a distress signal and location. A safety clip prevents the button from accidental engagement.

For fisheries protection agencies

- Enable compliance with AIS reporting requirements.
- Geofencing capability facilitates regulatory compliance within customizable exclusion zones.
- Mitigate risk and loss with increased safety and distress alert capabilities.

For maritime safety and enforcement agencies

- Improve search and rescue operations for non-SOLAS vessels.
- Augment visibility of friendly vessels to reduce the number of non-cooperative targets in support of maritime domain awareness.
- Surveillance of marine protected areas.

Enhanced satellite and terrestrial communication for complete coverage

Ruggedized, versatile and reliable

Supports vessels of all types and sizes

AIS reporting compliance for small craft

Quick and easy to install



Physical

- **Dimensions:** 158mm x 94mm x 43mm
- **Weight:** 363g.
- **Mounting:** Easy to install mounting socket available.

Power

- **Batteries:** Rechargeable lithium manganese batteries with very low self-discharge. Non-hazardous battery for safe and unrestricted transportation.
- **Operating time:** Depending on defined reporting rate and modes, up to 120 hours.
- **Charging time:** Approximately 4.5 hours (longer with optional solar cell).
- **Charging:** 9–32V DC or by means of universal 12V AC/DC adapter.

Environmental

- **Operation temperature:** -20°C to +65°C.
- **Storage temperature:** -30°C to +75°C.
- **Waterproof:** Immersion to 10m.
- **Buoyancy:** Floating.
- **Exterior:** Highly visible red.
- **Compass safe distance if active:** 80cm.
- **Mechanical shock:**
 - » *Drop into water: 20m.*
 - » *Drop onto concrete surface: 1m.*
- **Thermal shock:** Temperature difference: 45K
- **Resistance:** Oil, seawater and sunlight.

Operational

- **Activation:** Manual power button.
- **Alert mode:** Manual button to alert on AIS network.
- **Self-test mode.**
- **LED:** Highly visible Zone, Alert, On and GPS indicators.

Position reporting

- **Position update:** GPS position update every 60 seconds.
- **Reporting interval:** programmable, based on time intervals or distance.
- **Data delivery:** Tri-modal – terrestrial AIS, satellite AIS, ORBCOMM M2M satellite messaging.

AIS

- **Operating frequencies:** 4 channels for transmission, 2 for terrestrial AIS, 2 for satellite AIS, alternating minimum 2W EIRP, typical app. 3W EIRP.
- **Receiver:** Carrier sense.

Satellite

- **Network:** ORBCOMM M2M.

Navigation

- **Integrated:** 50 channels.
- **Position fix (cold start):** Typically less than 1 minute when operated in an area with good satellite coverage.
- **GPS satellite-based augmentation systems:** WAAS, EGNOS and MSAS.
- **Networks:** GPS, GLONASS, Galileo, Beidou.

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ORBCOMM (Nasdaq: ORBC) is a global leader and innovator in the industrial Internet of Things, providing solutions that connect businesses to their assets to deliver increased visibility and operational efficiency. The company offers a broad set of asset monitoring and control solutions, including seamless satellite and cellular connectivity, unique hardware and powerful applications, all backed by end-to-end customer support, from installation to deployment to customer care. ORBCOMM has a diverse customer base including premier OEMs, solutions customers and channel partners spanning transportation, supply chain, warehousing and inventory, heavy equipment, maritime, natural resources, and government. For more information, visit www.orbcomm.com.