ORBCOMM®

WHERE DATA DRIVES DECISIONS

MT 5000

Reliable small vessel tracking for safety, security and compliance.

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

Reliable and comprehensive location data

Supported by satellite and cellular connectivity, the MT 5000 is a one-of-a-kind device that brings the power of Automatic Identification System (AIS) tracking to smaller vessels. It enables location tracking and geofencing at sea. It includes an alert light that indicates when a boat enters unauthorized zones.

Actionable intelligence

Platform agnostic, the MT 5000 delivers data via a simple API for easy integration into monitoring systems. Plus, it can be configured and historical data can be downloaded with a phone app.

Faster emergency response

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

Enhanced satellite and terrestrial communication

Ruggedized, versatile and reliable

Reporting compliance for small craft

Quick and easy to install

Specifications

Physical
- Dimensions: 158mm x 94mm x 43mm
- Weight: 363 g
- Mounting dock available
- Integral antenna for all radio communication systems

Power
- Rechargeable lithium ion batteries
- Up to 96 hours operating time
- 8 hour charging time
- 10–32V DC supplied to an MT 5000 docking station for charging

Environmental (IEC 60945 and IEC 62287)
- Operating temperature: -20°C to +55°C
- Storage temperature: -30°C to +70°C
- Waterproof: Immersion to 10m depth
- Buoyant
- High-visibility orange enclosure
- Compass safe distance if active: 80cm
- Mechanical shock: 10 g, 25 ms
- Drop: Onto concrete surface: 1m
- Thermal shock: Temperature difference: 45°C
- Resistance: Oil, seawater and sunlight

Regulatory
- FCC, IC, CE, IEC60945

Operational
- Activation: Manual power button
- Alert mode: Manual button to alert on AIS and ORBCOMM satellite network
- LED: Highly visible zone, alert, on, battery level and GNSS indicators

AIS
- Operating frequencies: 4 transmission channels, 2 alternating channels for terrestrial AIS, 2 alternating channels for satellite AIS, nominally 2.5W radiated
- Operation: AIS carrier-sense TDMA compliant to ITU-R M.1371
- AMRD (Autonomous-Mobile-Radio-Devices) ready on 160.9 MHz

Satellite
- Network: ORBCOMM and AIS

GNSS
- Integrated: 50 channels
- Position fix (cold start): Less than 1 minute with satellite visibility
- GPS satellite-based augmentation systems: WAAS, EGNOS and MSAS
- Networks: GPS, Galileo and GLONASS or BeiDou
- GPS approved: IEC 61108-1 (Maritime Equipment)

Position reporting
- GPS position update every 60 seconds
- Reporting interval: programmable
- Data delivery: Tri-modal—terrestrial AIS, satellite AIS, ORBCOMM satellite messaging

Miscellaneous
- Track-storage: 8000 track points (0.5 nautical miles resolution)
- Geofence and coastline storage: 3000 points and regions
- Tamper detection: Removal from dock, GPS and low voltage
- Encryption available for AIS messages
- Firmware updates of AIS and satellite via PC-based programming tool

Order codes
- MT5000-1000 MT5000 device
- MT5000-3000 MT5000 device with charging dock and tamper detection
- ST101042-001 Programming dock
- ST101222-001 Programming dongle

Although we strive to ensure accuracy in all of our published specifications, actual field performance can vary depending on a variety of environmental, installation and usage factors, as well as third-party factors such as cellular providers. The specifications listed are approximations, and do not constitute binding statements or modify the terms and conditions of purchase or lease including, but not limited to, product operational limitations and warranties. All specifications are subject to change without notice. Please check www.orbcomm.co.kr to ensure you have the latest version of these specifications.

For more information on our solutions or to book a demo, email us: sales@ORBCOMM.co.kr

Visit our website **www.ORBCOMM.co.**kr

CALL: 82.2.3444.7311   **EMAIL:** SALES@ORBCOMM.CO.KR   **VISIT:** WWW.ORBCOMM.CO.KR