

The MT3400 is a satellite communication device which features a thin profile, ultra-low power consumption and field replaceable batteries – making it ideal for tracking trailers, containers and other mobile assets.



The MT3400 is a versatile solution well suited for many mobile asset tracking applications but is especially useful for monitoring the location of trailers and containers.

This easy to install and use device uses a network of geostationary satellites and a two-way satellite communications protocol to send pre-scheduled status polls or reports; inform the user of events, receive “over-the-air” commands, and receive poll requests for instantaneous GPS location and information reporting.

The MT3400’s low profile keeps the device out of sight from those who might misuse or tamper with the equipment. In the event of a theft, the location accuracy provided by the proprietary Global Positioning System (GPS) receiver ensures precise position information for fast trailer retrieval.

The stop-start sensor in the MT3400 provides information as to whether the asset is stationary or moving. This powerful feature helps reduce the number of messages sent via satellite thereby reducing monthly airtime costs and battery consumption.

In-field replaceable battery packs for the MT3400 can provide years of service depending on usage.

Configuration and data retrieval from the MT3400 can be easily accomplished through third-party Internet-based application services provided by Value-Added Resellers (VARs) or

## FEATURES & BENEFITS

- **Quick and easy installation** reduces installation time and costs and ensures that the asset is back in the field quickly.
- **Two-way communication** for messaging to and from the asset for near real-time control.
- **Fully acknowledged satellite service** ensures messages to and from the terminal are received.
- **Low message latency** enables applications that require immediate communication. No delays.
- **Over-the-air configuration** for easy and agile application adaption once the asset is deployed.
- **Accurate and fast GPS function** for precise location reporting.
- **Low-profile and inconspicuous appearance** to avoid detection and tampering.
- **Ultra-low power consumption** for years of service from a single battery.
- **Field-replaceable battery pack** for quick battery replacement.
- **Integrated stop-start sensor** to reduce air-time costs and increase battery life when the unit is parked for long periods of time.

by integrating existing customer enterprise software to receive information from the message gateway.

Use of the MT3400 can increase efficiencies in the utilization and deployment of trailers, containers and other mobile assets; improve security; prevent and reduce cargo theft; help recover misplaced or stolen equipment quickly; and reduce insurance costs.



# GLOBALWAVE® MT3400

## PHYSICAL

Size	<ul style="list-style-type: none"><li>• 11.5 cm x 20.3 cm x 2.1 cm (without battery pack)</li><li>• 11.5 cm x 50.8 cm x 2.1 cm (with battery pack)</li></ul>
Mass	<ul style="list-style-type: none"><li>• &lt; 454 grams (without battery pack)</li></ul>

## ENVIRONMENTAL

Operating Temperature	<ul style="list-style-type: none"><li>• -40°C to +85°C</li></ul>
Storage Temperature	<ul style="list-style-type: none"><li>• -55°C to +85°C</li></ul>
Humidity	<ul style="list-style-type: none"><li>• Meets SAE J1455</li></ul>
Dust & Water Ingress	<ul style="list-style-type: none"><li>• Meets SAE J1455</li></ul>
Vibration	<ul style="list-style-type: none"><li>• Meets SAE J1455</li></ul>
Shock (survival)	<ul style="list-style-type: none"><li>• Meets SAE J1455</li></ul>

## ELECTRICAL

Power	<ul style="list-style-type: none"><li>• Low profile battery pack</li></ul>
Input Voltage Range	<ul style="list-style-type: none"><li>• 4.5 to 9.5 Volts</li></ul>
Power Consumption (Typical @ 7.2VDC)	<ul style="list-style-type: none"><li>• Idle mode: &lt;58 µW</li><li>• Transmit mode: &lt; 9.5 W</li><li>• Receive mode: &lt;547 mW</li><li>• GPS power consumption: &lt;662 mW</li></ul>

## SATELLITE COMMUNICATIONS

Frequency	<ul style="list-style-type: none"><li>• 1626.6 – 1660.5 MHz (From-Terminal)</li><li>• 1525 – 1559 MHz (To-Terminal)</li></ul>
Elevation Angle	<ul style="list-style-type: none"><li>• 20° to 90° for communications link</li><li>• 10° to 90° for GPS</li></ul>

## SATELLITE MESSAGING

From-Terminal	<ul style="list-style-type: none"><li>• 11 bytes, 350 bps</li></ul>
To-Terminal	<ul style="list-style-type: none"><li>• Up to 38 bytes, 1200 bps</li></ul>

## GPS

Acquisition	<ul style="list-style-type: none"><li>• Cold: &lt;40 seconds; Warm: &lt;16 seconds</li></ul>
Accuracy	<ul style="list-style-type: none"><li>• 11 meters, 95% of the time</li></ul>

## CERTIFICATIONS / COMPLIANCE

Satellite	<ul style="list-style-type: none"><li>• Inmarsat Type Approval</li></ul>
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## PROGRAMMING CAPABILITIES

Reporting	<ul style="list-style-type: none"><li>• Polls for GPS location</li><li>• Optional pre-scheduled, configurable over-the-air, reports every 10 minutes to 24 hours</li><li>• Temperature and battery events based upon exceeding user-defined parameters</li></ul>
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## ADDITIONAL FEATURES

Sensor	<ul style="list-style-type: none"><li>• Integrated start/stop sensor</li></ul>
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## ORDERING CODES

Assemblies:	
6100086-XX	<ul style="list-style-type: none"><li>• MT3400 terminal with low profile battery pack</li></ul>
6100076-XX	<ul style="list-style-type: none"><li>• MT3400 terminal with low profile battery pack, mounting kit and connector cover</li></ul>
Accessories and Replacement Parts:	
6100069-XX	<ul style="list-style-type: none"><li>• MT3400 terminal</li></ul>
6100074	<ul style="list-style-type: none"><li>• Low profile battery pack</li></ul>
6000466-20	<ul style="list-style-type: none"><li>• MT3400 Configuration Cable</li></ul>
6000447	<ul style="list-style-type: none"><li>• MT3400 VHB bracket mount with connector cover</li></ul>

### About SkyWave Mobile Communications

SkyWave Mobile Communications designs and manufactures integrated satellite terminals, dual-mode satellite/GPRS terminals and provides Inmarsat-based network services to enable dependable, low-cost, remote management, security and logistics solutions. SkyWave's products are designed for a broad range of industries including land mobile, marine, oil & gas, SCADA, government and defence.