

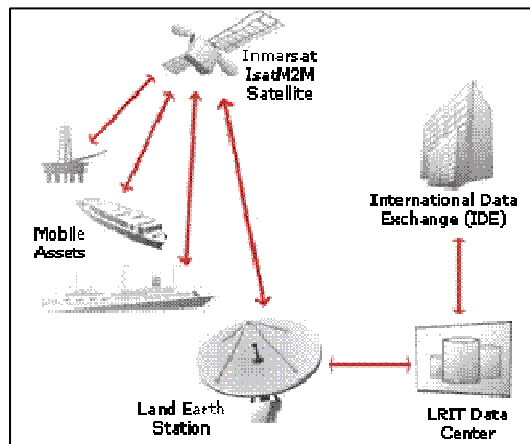
Comply with international regulations on Long Range Identification and Tracking of ships using the DMR terminal's field-proven pedigree in low-cost ship security and vessel monitoring at a cost that won't sink you.



Passenger ships, cargo ships of 300 gross tonnage and upwards, and mobile offshore drilling units are mandated to have LRIT compliance by December 31st 2008. This means reporting identity, position and timestamp at regular, configurable intervals.

Even though many field-installed terminals already in use for GMDSS² or SSAS³ are capable of supporting LRIT, many need to be manually upgraded or require a supplemental unit for compliance or demarcation from uses such as email.

DMR-800LRIT uses IsatM2M, a service optimized for position and status reporting based on enhancements to Inmarsat D+. It offers a compelling cost advantage in situations where you need to consider upgrading or installing new units on ships.



1 – International Convention for Safety Of Life At Sea
 2 – Global Maritime Distress Safety System
 3 – Ship Security Alert System

Why DMR-800 LRIT?

- **Fully compliant with International Maritime Organization (IMO) requirements** for SOLAS¹ V/19-1 (Long Range Identification and Tracking).
- **Low cost alternative to retrofitting** if your existing terminal is not LRIT compliant, save up to 50% on up-front costs.
- **Stand-alone operation** is easy to install and does not require a crew interface, making compliance quick and painless.
- **Enhanced tracking reports** include speed and heading making the unit flexible enough to add commercial tracking on top of LRIT compliance at minimal incremental cost to the ship owner.
- **Seamless transfer of ASP** is made easy using the SkyWave Versa Automated Provisioning Protocol.

All the features and benefits of the DMR-800L including:

- **Enhanced low-elevation performance for operation at sea** is the only IsatM2M terminal type approved by Inmarsat to minus 20 degree angle of elevation.
- **Seamless global coverage** based on the highly reliable Inmarsat satellite constellation operating over 5 ocean regions including PAC-C.
- **Extended operating temperature** range allows reliable deployment in some of the world's most demanding environments.
- **Discrete input feed** empowers ship's master with discretionary control of report transmissions.
- **Over-the-air programming** enables remote reconfiguration of reporting frequency in full compliance with LRIT.
- **Embedded Data Log** stores months of historical operating data that can be selectively queried without the cost of dispatching a technician.

DMR-800LRIT Satellite Terminal

Physical

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|------|--------------------------------------|
| Size | • 160mm (diameter) x 100 mm (height) |
| Mass | • 765 g |

Environmental

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|-----------------------|---|
| Operating Temperature | • -40°C to +70°C |
| Storage Temperature | • -40°C to +85°C |
| Humidity | • 95% Relative Humidity at +30°C |
| Dust & Water Ingress | • IP67/NEMA-4X |
| Vibration | • 5-20 Hz; 1.92 m2/s3 random noise • 20-500 Hz; -3dB octave random noise |
| Shock (survival) | • Half sine 6ms, 300 m/s ² |

Electrical

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|------------------------------------|--|
| Input Voltage | • 9 VDC to 32 VDC |
| Power Consumption (typical @ 22°C) | • Receive/tracking mode (GPS active): 0.91W • Transmit: 9 W |
| Mating Connector | • Conxall Mini-Con-X® 6282-8SG-3DC |

Satellite Communications

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|-----------------|--|
| Frequency | • Rx: 1525.0 to 1559.0 MHz • Tx: 1626.5 to 1660.5 MHz |
| EIRP | • 9 dBW max |
| Elevation Angle | • -20 to +90 degrees |

GPS

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|------------------|--|
| Channels | • 16 channels; 1575.42 MHz |
| Acquisition Time | • Cold-start 41.5s; SuperSense® -148 dBm |
| Accuracy | • 3 m CEP; 5 m SEP |

Certifications / Compliance

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|---|---|
| Satellite | • Inmarsat Type Approved |
| Regulatory | • IEC EN:60945 • FCC, RoHS, Anatel, IC pending • CE0470 (R&TTE) |
| International Maritime Organization (IMO) | • Fully compliant with all IMO LRIT requirements as detailed in MSC.264(84) |

Data Log

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|----------|---|
| Capacity | • 320kB: Persistent storage of 140 days position history at 15 minute intervals |
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External Interfaces

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|---------|---|
| Serial | • RS232: console interface • Password-protected access |
| Digital | • Optional control over message transmission |

Programming Capabilities

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|--------|--|
| Script | • Pre-configured and secured for LRIT reporting • Optional add-on commercial tracking available |
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Satellite Messaging

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|---------------|---|
| From-Terminal | <ul style="list-style-type: none">• LRIT standard report:<ul style="list-style-type: none">○ Position (2 second resolution)○ Day of month○ Time of day (1 minute resolution)• Enhanced data (included with standard report)<ul style="list-style-type: none">○ Speed (up to 51 knots to 0.2 knot resolution)○ Course (1 degree resolution)• Configurable reporting frequency from 24 hours to 15 minutes• Current position response to over-the-air poll• Historical position retrieval via over-the-air query |
| To-Terminal | <ul style="list-style-type: none">• Poll vessel for position• Reconfigure LRIT reporting frequency• Query previous historical position• Overlay commercial tracking reports |

Ordering Codes

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| SM200267-001 | • DMR-800LRIT Kit – 20m basic; includes: DMR-800L pre-configured for LRIT; and 20m 2-conductor cable |
| SM200272-001 | • DMR-800LRIT (terminal only); includes: DMR-800L pre-configured for LRIT |

* SM200257-BHG



For more information
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About SkyWave Mobile Communications

SkyWave Mobile Communications designs and manufactures integrated D+/IsatM2M satellite terminals, dual-mode satellite/GPRS terminals and provides network services to enable dependable, low-cost, remote management, security and logistics solutions for fixed and mobile assets. SkyWave's products are designed for a broad range of industries including land mobile, marine, oil & gas, SCADA, government and defence.

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