

From tracking fishing boats to monitoring buoys, the cost-effective and feature-rich DMR-800L is specifically designed for maritime and low elevation angle applications.



Using a special antenna, the DMR-800L is the only IsatM2M terminal on the market specifically designed for maritime applications.

FLEET TRACKING

As a low-cost alternative to other maritime tracking products, the DMR-800L offers many of the same features including integrated GPS; data reporting by schedule or events; polling or over-the-air programming capabilities to request instant GPS location or change reporting intervals; two-way communication; geofencing to identify areas of interest and program special reporting intervals; access to discrete input/output feeds to detect power failures or report when machinery is activated; and fully sealed and water proof enclosure.

VMS AND SSAS

Maritime fleet operators are required to meet legal and safety requirements for Vessel Monitoring Systems (VMS) and/or Ship Security Alert Systems (SSAS). The DMR-800L is a key component to ensure compliance and the security of their ships, cargo and crew anywhere in the world's oceans. The DMR-800L exceeds all applicable International Marine Organization's tests required to meet hardware requirements for the SSAS market

FEATURES & BENEFITS

- **Antenna** is designed for reliable performance in low elevation angles.
- **Two-way communication** enables communication to and from the asset for tracking, monitoring and control operations.
- **Seamless global coverage** based on Inmarsat satellite constellation means the DMR-800L is a truly global solution. Includes automatic ocean region switching capabilities.
- **Low message latency** allows for applications that require immediate communication to and from the asset. No long delays.
- **Exception-based reporting** allows the user to be informed of specific events and maintain low messaging costs.
- **Discrete input/output feeds** expand productivity of the device by enabling monitoring and control of local devices.
- **Messaging Options** allows the customer to choose the message size that best fits their application and budget.
- **Flexible Billing Plans** with low monthly costs and competitive per message price make the DMR-800L ideal for a variety of remote monitoring applications.
- **Customizable and easy programming interface** allows customers to get to market faster.
- **Easy installation and maintenance** reduce deployment and operating costs.
- **Over-the-air programming** ensures easy and agile application adaptation and customization once the asset is deployed without the cost of dispatching a technician.

DMR-800L SATELLITE TERMINAL

PHYSICAL

Size	• 160mm (diameter) x 97 mm (height)
Mass	• 765 g

ENVIRONMENTAL

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

ELECTRICAL

Input Voltage	• 9 VDC to 32 VDC
Power Consumption (Typical @ 12VDC)	• Transmit mode: 10 W • Tracking mode (GPS on): 0.9W • Sleep: 3mW
Mating Connector	• Conxall Mini-Con-X® 6282-8SG-3DC

SATELLITE COMMUNICATIONS (D+/ISATM2M)

Frequency	• Rx: 1525.0 to 1559.0 MHz; 32-FSK • Tx: 1626.5 to 1660.5 MHz; 2-FSK
EIRP	• 9 dBW max
Elevation Angle	• -20 to +90 degrees

GPS

Channels	• 16 channels; 1575.42 MHz
Acquisition	• Cold-start: 34s • SuperSense®: -148 dBm
Accuracy	• 2.5 m CEP; 5.0 m SEP

CERTIFICATIONS / COMPLIANCE

Satellite	• Inmarsat D+/IsatM2M Type Approved
Regulatory	• FCC; RoHS; CE Mark (R&TTE); Anatel • IEC/EN 60945 including section 11.2 • Standard Compass Safe Distance – 30cm • Emergency Compass Safe Distance – 25cm

MEMORY

Data Log Capacity	• 320kB; Up to 17,200 positions
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EXTERNAL INTERFACES

Serial	• RS232: console interface • Optional NMEA output • Password-protected access
Analog/Digital	• 4 Software-configurable input/output <ul style="list-style-type: none">○ Digital or 10-bit A/D input○ Digital output; max sink 250mA○ 4-20mA current detection (pin 8 only)

PROGRAMMING CAPABILITIES

Script Logic	• 128 Actions • 64 Alarms • 64 Timers • 32 Data transformers • 4 programmable I/O lines – digital or analog • 128 Geofences (circular, rectangular, polygon) • Low Power modes with scheduled or I/O wakeups
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SATELLITE MESSAGING

From-Terminal	• 10.5 bytes or 25.5 bytes
To-Terminal	• 4 alert codes + up to 100 bytes

ORDERING CODES

SM200257-BHG	• DMR-800L with bottom-mount connector
SM200294-BHG	• DMR-800L with bottom-mount connector • Supports synchronization
SM200311-BHR	• DMR-800L with GLONASS/GPS, • Bottom-mount connector • Supports synchronization
SM200311-SHR	• DMR-800L with GLONASS/GPS • Side-mount connector • Supports synchronization
SM200268	• Evaluation Flex-Kit • Includes cables for DMR and SureLinx terminals, airtime, support, training • Order any terminal variant separately



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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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