

DMR-800D SkyWave Terminal

Product Overview

The SkyWave DMR-800D terminal is the latest evolution in SkyWave's field-proven DMR product series, purpose-built to enable new applications using the new SkyWave IsatM2M service. The DMR-800D offers:

- The processing power and memory necessary for today's complex high value applications;
- Low power consumption to enable long battery life applications;
- Up to 25.5 byte from-terminal and 100 byte to-terminal messages;
- 0° elevation angle performance coupled with global coverage to ensure your applications will have coverage;
- Broad range of application and scripting features to simplify integration;
- Range of packaging and connector options to simplify installation;
- Ease of programming with SkyWave development tools; and
- Backward compatibility with DMR-200 applications.

The DMR-800D terminal is a compact, environmentally sealed unit that is easy to install and maintain. With a broad range of application support features and programmability, it may be all the hardware you need for your remote fixed and mobile applications on land or sea. This programmability allows for future expansion, future-proofing your applications.

In addition to reliable two-way communication, predictable performance and low-cost setup, the DMR-800D terminal supports Solution Providers' existing D+ applications and investment while offering additional features and benefits with SkyWave IsatM2M functionality that will help grow their business to enter new markets. The DMR-800D terminal can be easily configured to be compatible with existing DMR-200 D-series scripts using SkyWave SDK tools.

Applications

Together the SkyWave IsatM2M network service and the DMR-800D offer increased responsiveness for new and existing applications by combining global, bi-directional communications with large payload, low latency and low power consumption.

The DMR-800D meets the low message latency requirements demanded by enhanced security applications, to enable faster communication and increased responsiveness. AVL applications benefit from efficient message delivery and consistent communications. The terminal's low latency also enables quicker response times so in case of emergency, a vehicle's control center can instruct the terminal to take pre-determined actions in an instant while larger message payload enables multiple position reports to be sent in one single low-cost message. For logistics and trucking applications, drivers take advantage of the extended message capacity to send and receive free-form text messages from dispatch, with fast, predictable delivery, allowing them to coordinate deliveries with more accuracy or provide timely status updates. For remote, unmanned applications with battery-powered installations such as intermodal containers, trailers or marine buoys, the terminal's low power mode feature offers efficient power consumption to extend battery life, thereby increasing overall application value.



Key Benefits

- Increased application responsiveness
- Ease of integration with software applications
- Reduced maintenance costs
- Low power consumption extends battery life
- Leverage your SkyWave D+ knowledge
- Enables remote text-messaging applications
- Proven SkyWave reliability and dependability

Key Features

- Compact & inconspicuous
- Low latency & fast response
- Extended messaging capacity
- Low power consumption
- Geofencing
- Optional GPS
- Exception-based reports
- Fast terminal start-up
- Integrated Data Log



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Technical Details

- Full API & development toolkit for programming
 - 32 Actions
 - 16 Alarms
 - 16 Timers
- RS-232 serial port communications and I/O
- 4 programmable I/O lines
 - Digital or analog
 - Wake-up enabled
- From-terminal messaging:
 - 10.5 bytes
 - 25.5 bytes (IsatM2M)
- To-terminal messaging:
 - Up to 100 bytes and 4 alert codes
- Geofence:
 - 32 shapes
- Data Log
 - Up to 10,000 reports
- Support for NMEA formatted output from GPS

Product Specifications

Physical	Size Weight Plastic enclosure	160mm (diameter) x 52mm (height) 500g (base model) Ruggedized; environmentally-sealed
Environmental	Operating Temperature Storage Temperature Humidity Vibration Shock (survival)	-40C to +70C -40C to +85C 95% Relative Humidity at 30C 5-20 Hz; 1.92 m ² /s ³ random noise 20-500 Hz; -3dB octave random noise Half sine 6ms, 300m/s ²
Electrical	Input Voltage Power Consumption (typ @ 12VDC) Mating Connector	9 VDC to 32 VDC Receive: 0.8W (typical) GPS Active: 0.9W Heater Active: 1.9W Idle: 0.85W Transmit: 9W Sleep: 250µA Conxall Mini-Con-X® 6282-8SG-3DC
Satellite	Network Coverage Frequency & Modulation EIRP Elevation Angle GPS Accuracy	To +/- 75 degrees latitude with 5 overlapping Ocean Regions Rx: 1525.0 to 1559.0 MHz; 32-FSK Tx: 1626.5 to 1660.5 MHz; 2-FSK 9 dBW max 0 to 90 degrees 16 channels; 1575.42 MHz 2.5 m CEP; 5.0 m SEP
Certifications and Compliance		Inmarsat Type Approval R&TTE (CE Marking); FCC NEMA 4/4; IP56 RoHS

Product	Application/Configuration Description	Ordering Code
DMR-800D	Bottom-mount connector with GPS	SM200252-BHG
	Side-mount connector with GPS	SM200252-SHG
	Bottom-mount connector (non-GPS)	SM200252-BHN
	Side-mount connector (non-GPS)	SM200252-SHN
DMR-800 Evaluation Kit	Evaluation Kit for DMR-800; (Order with DMR-800D terminal)	SM200232
DMR Feature Options	Factory configure for D+ Operation	F0001
DMR Feature Options	Factory configure for IsatM2M Operation (default)	F0002

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