



SkyWave

DMR-800D SkyWave IsatM2M Terminal Satellite-Based Asset Tracking Solution

- Compact & inconspicuous
- Remote text messaging
- Geofencing capabilities
- Low latency & fast response
- Two-way communication & SCADA
- Up to 25-byte message size from terminal
- Up to 100-byte message size to terminal
- 1 minute message delivery to terminal
- 10 seconds to send from terminal
- GPS tracking & GPS jamming detection capability
- Digital and Analog I/Os sensor ports
- Easy installation and maintenance
- Over-the-air programming
- Low power consumption/extra-long battery life
- Global Coverage based on Inmarsat IsatM2M
- Availability of the satellites and ground network exceeds 99.9%
- Simple firmware upgrade for most Inmarsat D+ terminals

Product Information

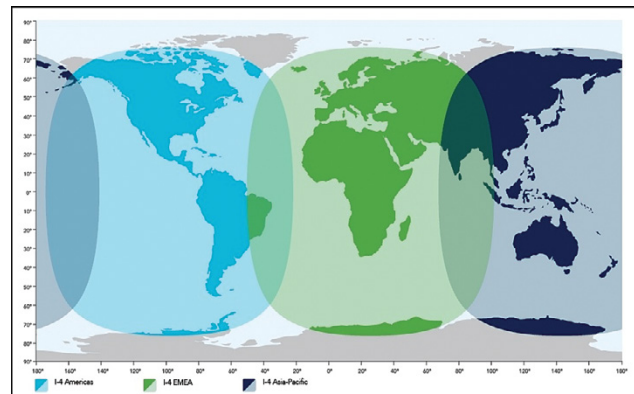
Absolute Software, a Value Added Reseller for SkyWave Mobile Communications, is pleased to offer the SkyWave DMR-800D IsatM2M satellite terminal.

The DMR-800D, operating on SkyWave's global IsatM2M network, offers customers looking to track, monitor and control remote fixed and mobile assets a low-cost terminal and network solution that is easy to use, install and maintain. Additionally, DMR-800D offers low power modes of operation which are specifically designed to allow customers to deploy the terminal in remote unmanned locations where long battery life is critical.

SkyWave IsatM2M is a next-generation satellite service offering two-way burst messaging for dependable, consistent and reliable global communications with remote fixed and mobile assets on land or at sea. SkyWave IsatM2M is built on the Inmarsat IsatM2M network and introduces new application possibilities (such as text messaging and logistics) for Solution Providers who integrate SkyWave services into their global tracking, control, monitoring and security applications.

The service combines low latency, 25-byte message payload and low power consumption to add increased responsiveness for new and existing applications, meeting end-user requirements for a broad range of cost-effective applications anywhere in the world.

IsatM2M Coverage



The SkyWave IsatM2M service is built on the global Inmarsat IsatM2M network. The IsatM2M service is a global service - covering all surfaces of the earth, except for extreme polar regions.

The geostationary location of the satellites, mean that service is not affected by connectivity outages, often experienced by terrestrial or cellular technology in severe weather, or when communications go down following a natural or man-made disaster.

The map depicts Inmarsat's expectations of coverage, but does not represent a guarantee of service. The availability of service at the edge of coverage fluctuates depending on various conditions.

SkyWave DMR-800D Specifications & Features

Feature	Detail	Description
Physical	Size	160mm (diameter) x 52mm (height)
	Weight	500g (base model)
	Plastic enclosure	Ruggedized; environmentally-sealed
Environmental	RoHS	Compliant
	Temperature	Operating -40C to +70C Storage -40C to +85C
	Humidity	95% Relative Humidity at 30C
	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 (typ@ 12VDC)	Receive: 0.8W (typical)
		GPS Active: 0.9W
		Heater Active: 1.9W
		Idle: 0.85W
		Transmit: 9W
	Sleep: 250µA	
	Mating Connector	Conxall Mini-Con-X® 6282-8SG-3DC
Satellite	Network Coverage	To +/- 75 degrees latitude with 5 overlapping Ocean Regions
	Frequency & Modulation	Rx: 1525.0 to 1559.0 MHz; 32-FSK
		Tx: 1626.5 to 1660.5 MHz; 2-FSK
	EIRP	9 dBW max
	Elevation Angle	0 to 90 degrees
	GPS	16 channels; 1575.42 MHz
Accuracy	2.5 m CEP; 5.0 m SEP	
Messaging	From-Terminal	25.5 bytes
	To-Terminal	4 alert codes + up to 100 bytes
Geofence		32 shapes
Data Log		320kB; Up to 17,200 positions
External Interfaces	Serial	RS232: console interface
		Optional NMEA output
		Password-protected access
	Analog/Digital	4 programmable I/O lines
		Wake-up enabled
Certifications and Compliance		Inmarsat Type Approval
		R&TTE (CE Marking); FCC
		NEMA 4/4; IP56
		RoHS
		IEC: EN60945

SkyWave DMR-800D Options

Feature	Availability
GPS Position Reporting, Alarms and Events	✓
Digital Inputs (i.e. door sensors, panic alarm)	✓
Electronic Forms (Driver Logbooks, Custom Forms)	✓
Radio Frequency ID Tag Collection	
Engine Management Data (J1939/CAN Bus)	
Live Engine Diagnostics (Realtime J1939 access)	
Internet/Intranet Web Access (including VPN)	
Local Vehicle WiFi Access Point	
Full Email (including attachments)	
Short Email / Short Messaging Services	
Voice	
Coverage Area	Global

The SkyWave DMR-800D is manufactured by
SkyWave Mobile Communications

