

DMR-200D SkyWave D+ Terminals

Product Overview

SkyWave's DMR-200 series Inmarsat D+ terminals set the industry standard for reliable burst-messaging satellite communications with low total cost of ownership. SkyWave's D+ network operates over Inmarsat's high quality international satellite constellation, and is the one choice for mobile and stationary asset security and management applications deployed anywhere in the world.

The DMR-200D comprises a high degree of integration to minimize cost and complexity of the overall solution. Built-in satellite transceiver and antenna, GPS receiver, digital and analog inputs/outputs and a variety of firmware-based options are all housed in a compact, environmentally sealed package. Application configuration and customization are provided by a versatile developer toolkit and API.

Applications

GPS reporting enables asset tracking for vehicles, equipment, or containers for security and fleet management. Tracking capabilities are enhanced with built-in support for sensors and actuators to monitor conditions and provide added features such as automatic door or engine locking. The low profile of the DMR-200D makes it inconspicuous; ideal for both commercial and covert installations.

Marine installations on vessels and buoys not only extend asset visibility to hard-to-reach ocean locations, but provide an effective means of data reporting used for weather, fishing or scientific purposes.

Logistics applications make use of sensor input to gather detailed diagnostic information for various purposes – ensuring efficient route planning, fuel consumption, or to document vehicle adherence to safety and security regulations for insurance and legal purposes.

Stationary assets can also be managed using a non-GPS version of the terminal for SCADA and remote monitoring purposes, such as cathodic protection on pipelines. In these deployments, the integrated packaging of I/O with the communications subsystem not only minimizes footprint, but also provides increased reliability. Coupled with features such as low-power mode to ensure long battery life, the DMR-200D is designed to reduce total lifecycle cost.



Key Benefits

- Reliable global coverage
- Low total lifecycle cost
- Easy to install
- Painless integration with application software
- Feature options balance capital and functional needs

Key Features

- Compact & inconspicuous
- Rugged Outdoor packaging
- Prioritized communications
- Exception-based reports
- Over-the-air programming
- Integrated input/output
- Optional GPS
- Multiple Geofences
- Optional data logger
- Low power modes
- Highly reliable network

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Technical Details

- Full API & development toolkit for scripting
- Serial I/O via RS-232
- 4 Integrated I/O lines
 - Digital or analog
 - Voltage or current
 - Wake-up enabled
- From-terminal messaging
 - 64 bits typ; 80 bits max
- To-terminal messaging
 - Tone (4 alert codes)
 - Numeric (to 200 digits) or alpha (to 133 char)
 - Transparent (up to 100 bytes)

Product Specifications

Physical	Size	160mm diameter (6.25") x 51mm height (2.00")
	Weight	~520g
Environmental	Operating Temperature	-40C to +70C
	Storage Temperature	-40C to +85C
Electrical	Humidity	95% Relative Humidity at 30C
	Vibration	5-20 Hz; 1.92 m ² /s ³ random noise
	Shock (survival)	20-500 Hz; -3dB octave random noise Half sine 6ms, 300m/s ²
	Input Voltage	9 VDC to 32 VDC
Satellite	Power Consumption (typical @ 12VDC)	Receive: 0.8W (typical) GPS Active: 1.2W Heater Active: 2.8W Idle: 0.25W Transmit: 10W Sleep: 500µA
	Mating Connector	Conxall Mini-Con-X® 6282-8SG-3DC
Certifications	Network Coverage	Global; Spot beams & 5 overlapping regions
	Frequency	Rx: 1525.0 to 1559.0 MHz Tx: 1626.5 to 1660.5 MHz
	EIRP	9 dBW max
	Elevation Angle	15 to 90 degrees
Certifications	GPS	16 channels; 1575.42 MHz
	Accuracy	2.5 m CEP; 5.0 m SEP
Certifications		Inmarsat Type Approval DCC004 FCC; RSS-201; CE Mark; E Mark NEMA 4/4X; IP56

Product	Application/Configuration Description	Ordering Code
DMR-200D	Bottom-mount connector with GPS	SM200216-BHG
	Side-mount connector with GPS	SM200216-SHG
	Bottom-mount connector (non-GPS)	SM200216-BHN
	Side-mount connector (non-GPS)	SM200216-SHN
DMR-200 Evaluation Kit	Evaluation Kit for DMR-200; Limited Airtime; (order with DMR-200 terminal)	SM200232
DMR-200 Feature Options	Integrated Data Logging feature	F0008

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