

# DMR-200D Inmarsat 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
- Prioritized communications
- Exception-based reports
- Over-air programming
- Integrated input/output
- Multiple geofences
- High-speed GPS correction
- Data logging
- Low power modes
- Inmarsat type approved
- Highly reliable network

**SkyWave**



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## Product Specifications

Technical Details
<ul style="list-style-type: none"> <li>• Full API &amp; development toolkit for scripting</li> <li>• Serial I/O via RS-232</li> <li>• 4 Integrated I/O lines                             <ul style="list-style-type: none"> <li>○ Digital or analog</li> <li>○ Voltage or current</li> <li>○ Wake-up enabled</li> </ul> </li> <li>• From-terminal messaging                             <ul style="list-style-type: none"> <li>○ 64 bits typ; 80 bits max</li> </ul> </li> <li>• To-terminal messaging                             <ul style="list-style-type: none"> <li>○ Tone (4 alert codes)</li> <li>○ Numeric (to 200 digits) or alpha (to 133 char)</li> <li>○ Transparent (up to 100 bytes)</li> </ul> </li> </ul>

Physical	Size Weight Plastic enclosure material	160mm (diameter) x 52mm (height) 580g (base models); 685g (C1D2) Ruggedized; Environmentally sealed
Environmental	Operating Temperature Storage Temperature Humidity Vibration  Shock (survival)	-40C to +70C -40C to +80C 95% Relative Humidity at 30C 5-20 Hz; 1.92 m <sup>2</sup> /s <sup>3</sup> random noise 20-500 Hz; -3dB/octave random noise Half sine 6ms, 300m/s <sup>2</sup>
Electrical	Input Voltage Power Consumption (typ @ 12VDC)  Mating Connector	9 VDC to 36 VDC Sleep: 500µA; Receive: 0.9W; Idle: 0.25W; GPS active: +0.5W; Heater active: +1.5W; Transmit: 10W Conxall Mini-Con-X® 6282-8SG-3DC
Satellite	Network Coverage Frequency  EIRP Elevation Angle GPS Accuracy	Global; Spot beams & 4 overlapping regions Rx: 1525.0 to 1559.0 MHz Tx: 1626.5 to 1660.5 MHz 9 dBW max 15 to 90 degrees 16 channels; 1575.42 MHz 2.5 m CEP; 5.0 m SEP
Certifications		Inmarsat Type Approval DCC004 FCC; RSS-201; CE Mark; E Mark NEMA 4/4X; IP56 UL913 Class 1 Div 2 Hazardous Locations available (optional)

Product	Application/Configuration Description	Ordering Code
DMR-200D	Bottom-access connector with GPS	SM200216-BHG
	Side-access connector with GPS	SM200216-SHG
	Bottom-access connector (non-GPS)	SM200216-BHN
	Side-access connector (non-GPS)	SM200216-SHN
DMR-200D C1D2	Class1/Division2 (Hazardous Location); Bottom-enclosed connector with GPS	SM200221-BLG
	Class1/Division2 (Hazardous Location); Bottom-enclosed connector (non-GPS)	SM200221-BLN
DMR-200 Evaluation Kit	Evaluation Kit for DMR-200; 3-mos Airtime; (specify DMR-200 terminal type)	SM200232-EVA
	Quick-Start Value Bundle; Evaluation kit + scripting & training	SM200232-EVB
DMR-200 Feature Options	Integrated Data Logging feature	F001

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