

The latest evolution in SkyWave's DMR product series, DMR-800D terminals are built to enable mobile and remote resource management applications cost-effectively.



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.

With reliable two-way communication, 5 Ocean Region coverage, low latency and low setup costs, the DMR-800D is ideal for applications ranging from fleet management and security to Supervisory Control and Data Acquisition (SCADA) telemetry.

Programming and customizing the DMR-800D terminal is easy. SkyWave's feature-rich development tools are industry-leading and allow customers to easily program applications and get to market faster. The processing power in the DMR-800D is ideal for today's sophisticated and high-value applications.

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.

## FEATURES & BENEFITS

- **Two-way communication** enables communication to and from the asset for tracking, monitoring and control operations.
- **Seamless global coverage** based on Inmarsat satellite constellations means the DMR-800D is a truly global solution.
- **Customizable and easy programming interface** allows customers to get to market faster.
- **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.
- **Low power consumption** enables applications that mandate long battery life.
- **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 fit their application and budget.
- **Flexible Billing Plans** with low monthly costs and competitive per message price make the DMR-800D ideal for a variety of remote monitoring applications.
- **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-800D SATELLITE TERMINAL

## PHYSICAL

Size	• 160mm (diameter) x 52 mm (height)
Mass	• 500 g

## ENVIRONMENTAL

Operating Temperature	• -40°C to +70°C
Storage Temperature	• -40°C to +85°C
Humidity	• 95% Relative Humidity at +30°C

Dust & Water Ingress	• IP67/NEMA-4
Vibration	• 5-20 Hz; 1.92 m <sup>2</sup> /s <sup>3</sup> random noise • 20-500 Hz • -3dB octave random noise

Shock (survival)	• Half sine 6ms, 300 m/s <sup>2</sup>
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## ELECTRICAL

Input Voltage	• 9 VDC to 32 VDC
Power Consumption (typical @ 12VDC)	• Receive/tracking mode (GPS active): 0.9W • Transmit: 9 W • Sleep: 250 µA
Mating Connector	• Conxall Mini-Con-X@ 6282-8SG-3DC

## SATELLITE COMMUNICATIONS

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	• 0 to +90 degrees

## GPS

Channels	• 16 channels; 1575.42 MHz
Acquisition Time	• Cold-start 41.5s • SuperSense® -148 dBm
Accuracy	• 2.5 m CEP; 5.0 m SEP • Support for NMEA formatted output from GPS

## CERTIFICATIONS / COMPLIANCE

Satellite	• Inmarsat Type Approved
Regulatory	• FCC • RoHS • CE0470 (R&TTE) • IEC: EN60945 • Anatel

## 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"><li>○ Digital or 10-bit A/D input</li><li>○ Digital output; max sink 250mA</li><li>○ 4-20mA current detection (pin 8 only)</li></ul> • Wake-up enabled

## PROGRAMMING CAPABILITIES

Script Logic	• 128 Actions • 64 Alarms • 64 Timers • 32 Data transformers • 128 Geofences • Low Power modes
I/O	• 4 programmable I/O lines – digital or analog • Wake-up enabled

## SATELLITE MESSAGING

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

## ORDERING CODES

SM200252-BHG	• Bottom-mount connector (8 pin male) • Includes mating connector SM200274-001
SM200252-SHG	• Side-mount connector (8 pin male) • Includes mating connector SM200274-001
SM200271-xHG	• DMR-800D Evaluation Kit • Includes airtime, support, training • Includes terminal SM200252-xHG • Select x = Side (S) or Bottom (B) connector
SM200268	• Evaluation Flex-Kit • Includes cables for DMR and SureLinx terminals, airtime, support, training • Order terminal separately - select from any terminal variant(s)



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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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