

The DMR-800D, operating on the 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. SkyNet's feature-rich development tools are industry-leading and allow us to customise specific applications that help you get to market faster. The processing power in the DMR-800D is ideal for today's sophisticated and high-value applications.

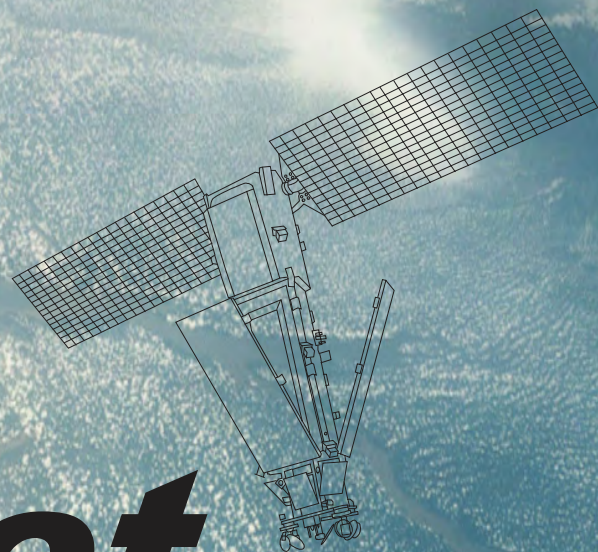
DMR-800D offers low power modes of operation which are specifically designed to allow customers to deploy the terminal in remote unmanned locations where long battery life is critical.

# DMR800

SKYNET SATELLITE TERMINAL

With 100% Inmarsat global coverage, SkyNet offers the only all in one solution for staff safety, across Australia

COMMUNICATIONS BEYOND THE HORIZON



# SkyNet

SATELLITE COMMUNICATIONS



# DMR800

SKYNET SATELLITE TERMINAL

## DMR 800D Features and 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 allow 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 Product Specifications

### PHYSICAL

- Size • 160mm ( diameter ) x 47 mm ( height )
- Mass • 500 g

### ENVIRONMENTAL

- Operating Temperature • -40°C to +85°C
- Storage Temperature • -40°C to +85°C
- Humidity • 95% Relative Humidity at +30°C non-condensing
- Dust & Water Ingress • IP67/NEMA-4X
- Vibration • 5-20 Hz: 1.92 m2 / s3 random noise
- 20-500 Hz: -3dB octave random noise
- Half sine 6ms, 300 m/s2

### ELECTRICAL

- Input Voltage • 9 VDC to 32 VDC
- Power Consumption ( Typical @ 12VDC )
  - Transmit mode: 10.5 W
  - Tracking mode ( GPS on ): 1.1W
  - Hibernate mode: 0.24mW
- Mating Connector • Conxall Mini-Con-X® 6282-8SG-3DC

### SATELLITE COMMUNICATIONS ( D+ / ISATM2M )

- 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 • Cold-start: 34s
- SuperSense®: -148 dBm
- Accuracy • 2.5 m CEP; 5.0 m SEP

### CERTIFICATIONS / COMPLIANCE

- Satellite • Inmarsat D+ / IsatM2M Type Approved Regulatory
- FCC; RoHS; CE Mark ( R&TTE ); Anatel: IEC / EN 60945

### MEMORY

- Data Log Capacity • 320kB; Up to 17,200 positions

### EXTERNAL INTERFACES

- Serial • RS232: console interface
- Supports optional NMEA output
- Password-protected access
- Analog / Digital • 4 Software-configurable input/output
- Digital or 10-bit A/D input
- Digital output; max sink 250mA
- 4-20mA current detection ( pin 8 only )

### PROGRAMMING CAPABILITIES

- Script Logic
  - 128 Actions
  - 64 Alarms
  - 64 Timers
  - 32 Data transformers
  - 4 programmable I / O lines – digital or analog
  - 128 Geofences ( circular, rectangular, polygons )
  - Low Power modes with scheduled or I / O wakeups

### SATELLITE MESSAGING

- From-Terminal • Up to 192 bytes
- To-Terminal • 4 alert codes + up to 100 bytes

Custom satellite solutions from

# SkyNet

SATELLITE COMMUNICATIONS

Australia | Asia Pacific | United States of America