

SkyNet

Mobile Communications

Fleet



LAND Vehicle Monitoring and Alert Systems

DMR-200 D features enhanced monitoring and control capabilities, 16 Channel GPS Onboard

Integrated with SkyNet's proven SatLink, the result is leading technology and a unique product.

New monitoring and control capabilities enable the DMR-200D to be used as a complete remote monitoring and control solution. There are significant cost savings as there is no need for a separate I/O controller or micro-processor solutions. Used in conjunction with SkyNet's powerful web software interface, the DMR-200 D is a part of SkyNet's secure, reliable, global mobile communications solutions.

Features Summary:

Four dedicated I/O pins, each configurable as:

- ✓ Digital input
- ✓ Power Supply voltage (9-30V)
- ✓ Processor-wake-up enabled
- ✓ Digital output
- ✓ Open collector
- ✓ Max 50mA sink current
- ✓ Analog voltage input
- ✓ 0-3.3V
- ✓ 8-bit resolution

•One of the four pins available for:

- ✓ Analog current input
- ✓ 4-20mA current detect
- ✓ 50 ohm input resistance



**** All I/O pins are protected against shorts to ground**

**** Voltage inputs up to Power Supply voltage (9-30V)**

SkyNet's newest Inmarsat D+ terminal, the DMR-200 D, offers the same form factor, reliability, and proven transceiver technology as its predecessor, the DMR-200C.

Add to this capability to monitor and control external sensors and devices using any of the DMR-200 D's four configurable Input/Output lines with the DMR's legendary scripting capabilities and the result is the very latest in monitoring and control technology.

These monitoring and control functions play a key role in SkyNet's global fleet tracking and monitoring capabilities.

DMR-200 D Specifications

Configuration Options

DMR-200 D (side mount connector)

DMR-200 D (bottom mount connector)

Physical

Size: 160mm (diameter) x 52mm (height)

Weight: 580g

Environmental

Operating Temperature Range: -40° to +70° C

Storage Temperature Range: -40° to +85° C

Humidity: 95% Relative Humidity at 30° C

Vibration: 5-20 Hz: 1.92 m2/s3 random noise 20-500Hz: -3dB octave random noise

Shock (survival): Half sine 6ms, 300m/s2 Electrical

Electrical

Input Voltage Range: 9 VDC to 30 VDC

Power Consumption (type @ 12VDC):

•Receive: 0.9W

•Idle: 0.25W

•GPS Active: +1.0W

•Heater Active: +5.0W

•Transmit: 10W; Sleep: 500µA

Mating Connector: Conxall Mini-Con-X® 6282-8SG-3XX Satellite

Satellite

Coverage: Global, four overlapping regions, spot beams

Frequency Range: Rx: 1525.0 to 1559.0 MHz TX: 1626.5 to 1660.5 MHz

Sensitivity: >-25dB/K

EIRP: 0 dBW to 9 dBW

Elevation Angle Range: 15 to 90 degrees

Modulation: Forward channel: 32-ary FSK, 20bps Reverse

Channel: binary FSK, 4-128bps

Forward Error Correction: Forward channel: Reed-Solomon (31,15)

Reverse channel: Half-rate convolution (k=7)

From-Terminal Message Types:

-- Acknowledgement, Long Burst

From-Terminal Message Length:

-- Long Burst: 64 bits (typical), 80 bits (max)

To-Terminal Message Types:

-- Tone, Numeric, Alphanumeric, Transparent

To-Terminal Message Length:

Numeric: up to 200 digits Alphanumeric:

up to 133 chars Transparent:

up to 800 bits payload (depending on priority)

GPS

Frequency: 1575.42 MHz

Channels: 16 parallel

Certifications

•Inmarsat D+ Type Approval

•CEMark

•IP56

** Specifications subject to change without notice **



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