SkyWave

DMR-800L WITH GLONASS/GPS SATELLITE TERMINAL

Building on the successes of the DMR-800L, SkyWave introduces the DMR-800L with GLONASS/GPS. Enjoy the benefits of a dual navigation system without the complexities and costs of a multi-box solution.

The DMR-800L with GLONASS/GPS is a satellite data communication terminal with a built-in GLONASS module. Designed specifically for the machine-to-machine (M2M) market, this data terminal can calculate location information using one or both navigation systems.

Since GLONASS capability is integrated into the terminal, the DMR-800L with GLONASS/GPS allows customers to take advantage of GLONASS navigation information without the costs and complexities of implementing an external GLONASS module.

The DMR-800L with GLONASS/GPS is ideal for both maritime and land-based tracking and monitoring. Applications for the product include barge tracking, fleet management, vessel monitoring systems and rail car monitoring.

Like other terminals in the DMR-800 family of products, programming and customizing the DMR-800L with GLONASS/GPS terminal is easy. SkyWave's feature-rich development tools allow customers to easily program applications and get to market faster.

This terminal also offers low power modes of operation for use in applications where long battery life is critical.

The processing power in this terminal along with flexible and competitive pricing ensure that the DMR-800L with GLONASS/GPS can address virtually any remote monitoring application.

FEATURES & BENEFITS

- **Integrated GLONASS and GPS** capability allows the terminal to use both navigation systems to determine asset location. Ideal for complying with government regulations or operating in challenging environments.

- **Inmarsat-based global coverage** allows this terminal to operate over land and sea.

- **Two-way communication** enables communication to and from the asset for tracking, monitoring and control operations.

- **Low power consumption** enables applications that mandate long battery life.

- **Low message latency** for immediate communications to the asset. No long delays.

- **Exception-based reporting** allows notification of events and maintains low messaging costs.

- **Over-the-air programming** for agile application customization once the asset is deployed without the cost of dispatching a technician.

- **Geofencing capabilities** allow special reporting intervals based on location of asset relative to virtual fences.

- **Discrete input/output sensor ports** expand the productivity of the device by enabling monitoring and control of local devices.

- **Customizable and easy programming interface** allows customers to get to market faster and create unique solutions.

- **Easy installation and maintenance** reduce deployment and operating costs.

- **Flexible Billing Plans** with low monthly costs and competitive per message price suit a variety of remote monitoring applications.

DMR-800L WITH GLONASS/GPS

PHYSICAL

Size	• 160mm (diameter) x 97 mm (height)
Mass	• 765 g

ENVIRONMENTAL

Operating Temperature	• -40°C to +70°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 m^2/s^3 random noise • 20-500 Hz: -3dB octave random noise
Shock (survival)	• Half sine 6ms, 300 m/s^2

ELECTRICAL

Input Voltage	• 9 VDC to 32 VDC
Power Consumption (Typical @ 12VDC, 22°C)	• Transmit mode: 11.7W • Tracking mode (GLONASS on): 2.0W • 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	• -20 to +90 degrees

GLONASS/GPS

Channels	• 24 channels; 1592 - 1606 MHz (GLONASS) 1575.42 MHz (GPS/WAAS/EGNOS)
Acquisition	• Cold-start: 50 seconds; • Sensitivity: -163 dBW
Accuracy	• 3 m RMS (Horizontal)

CERTIFICATIONS / COMPLIANCE

Satellite	• Inmarsat D+/IsatM2M Type Approved

Regulatory	• FCC; RoHS; CE Mark (R&TTE); Anatel
	• IEC/EN 60945 including section 11.2
	  • Standard Compass Safe Distance – 30cm
	  • Emergency Compass Safe Distance – 25cm

MEMORY

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

EXTERNAL INTERFACES

Serial	• RS232: console interface • Optional NMEA output • Password-protected access

Analog/Digital	• 4 Software-configurable input/output
	  o Digital or 10-bit A/D input
	  o Digital output; max sink 250mA
	  o 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, polygon) • 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

ORDERING CODES

SM2002312-BHG	• DMR-800L, bottom-mount connector
SM200312-SHG	• DMR-800L, side-mount connector
SM200312–BHR	• DMR-800L with GLONASS/GPS • Bottom-mount connector
SM200312–SHR	• DMR-800L with GLONASS/GPS • Side-mount connector
SM200268	• Evaluation Flex-Kit: Includes cables for DMR and SureLinx terminals, airtime, support, training. Order any terminal variant separately

inmarsat

About SkyWave Mobile Communications

SkyWave Mobile Communications is a global provider of Inmarsat-based satellite data communication equipment and services for machine-to-machine (M2M) applications. SkyWave products enable dependable and low-cost tracking and monitoring solutions for the security and remote management of assets over land, sea and air. SkyWave products and services serve customers in the transportation, maritime, mining, oil and gas, heavy equipment, and utilities sectors.

SkyWave-GLONASS.com
Phone: +1 613-836-4844
Email: info@skywave.com

SkyWave