

# SkySite<sup>®</sup> Modem SM-1010

*SkySite Network Compatible Class 1 Div 2 Wireless Modem*

## Space Data Corporation

Space Data's SkySite<sup>®</sup> Network enables wireless data communications in geographic regions that are poorly served by existing wireless technologies and services.

## The SkySite Network

Space Data's SkySite Network is a unique, aerial wireless data network that provides wide area data communications coverage using the ReFLEX 2.7 two-way packet data communications protocol.

The SkySite Network operates at an altitude of 65,000 to 80,000 feet and is held aloft by the same weather balloons that have been used for over sixty years to gather information for daily weather reports. SkySite Platforms are launched, recovered and reused several times each day. Each platform can provide wireless coverage to an area the size of Oklahoma.

## SkySite Network Advantages

*Wireless Data Coverage Everywhere.* You can easily talk to any and every site in the field – no matter how remote the location.

*Cost-effective Installations.* The combination of industry-standard ReFLEX technology and low power requirements makes for economical communications system deployments.

*Affordable Service Plans.* SkySite Telemetry Services are the most affordable data services available for remote area SCADA communications.

*Clear Spectrum.* Space Data owns and operates its own radio frequency spectrum, so there's never a problem with interference or unavailable frequencies.



## SM-1010 Features

- Optimized for operation on Space Data's SkySite Network
- Class 1 Div 2 certified
- Over-the-air firmware updates
- Access via Fixed IP address
- Low power consumption
- Duplex operation
- LEDs show network status
- Rugged, compact enclosure
- Local and remote diagnostics
- Proven ReFLEX technology
- Compatible with a wide range of automation equipment

## Applications

### *Energy & Utilities*

- Gas wellhead monitoring
- Oil well pump-off control
- Transmission line flow monitoring
- Distribution feeder line equipment monitoring (electric)

### *Other Industries*

- Irrigation control
- Weather monitoring
- Water level monitoring
- Chemical tank level monitoring
- Redundant communications

# SM-1010 Specifications

Space Data introduces the SM-1010 – a rugged, Class 1 Div 2 certified wireless modem designed for near real-time remote SCADA, control and exception-based monitoring. The SM-1010 communicates over Space Data's SkySite Network and is used in conjunction with devices such as remote telemetry units and electronic flow meters that communicate via a serial interface. As part of the SkySite Network, the SM-1010 offers telemetry and SCADA users the unique ability to wirelessly monitor all of their sites – even those in the most remote locations.

## General

- RF Protocol: ReFLEX 2.7
- Tx Frequency: 896–902 MHz
- Rx Frequency: 929–932, 935–942 MHz
- ReFLEX data rates: 800 – 9600 bps
- Serial protocols: Space Data serial command set

## Power Requirements

- Input Voltage: 9 – 18 VDC
- Max Tx Current: < 2A
- Max Rx Current: < 40mA
- Avg. Current Drain @ 1 poll/hour: 30mA

## Environmental

- Operating Temperature: -40°C to +70°C
- Humidity: 5% to 95% non-condensing

## Physical Characteristics

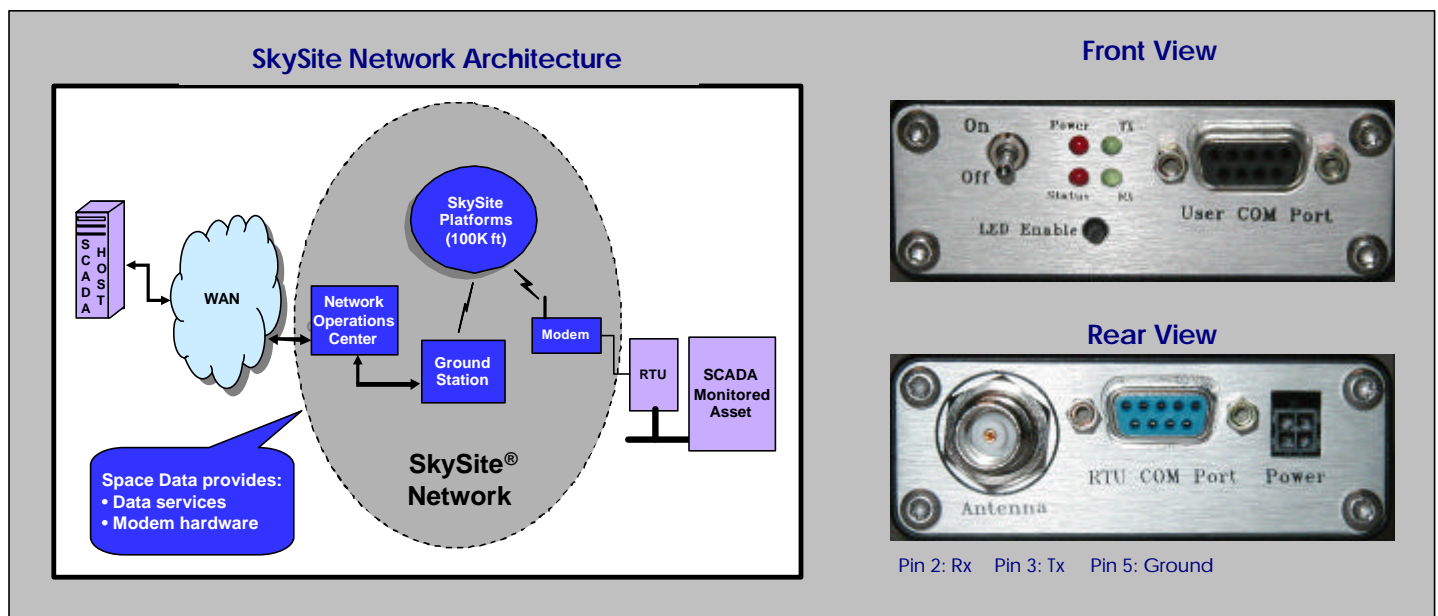
- Weight: 7.5 oz. (212 g)
- Size: 1.1" H x 3.1" W x 4.75" L
- RF Antenna Connector: 50 Ohm TNC
- Serial Interface: RS-232, DB-9 Female
- User Interface: RS-232, DB-9 Female
- Status LEDs: power, network status, Rx, Tx
- LED Control: on/off
- Case: extruded aluminum

## Certifications

- Class I, Division 2 certified
- API 21.1 compliant

## Warranty

- Hardware: one year parts and repair labor



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