

# SkySite® Locator SL-3100

## GPS Location and Data Terminal for Fleet Applications

The SL-3100 SkySite Locator is a compact, vehicle-powered terminal used to monitor and report vehicle location and status information over the SkySite Network. It has been designed to address fleet operators' increasing need for affordable, real-time vehicle position and status information no matter where a vehicle is traveling.

The SL-3100 is used in conjunction with Space Data's **SKYSITE LOCATION SERVICES** to deliver location, alarms and status data directly to a variety of mapping formats and providers, including both Web-based and internally hosted approaches.

### SkySite Locator Advantages

The SkySite Locator bridges the gap between cellular-based and satellite-based tracking products by combining the best attributes of both to create a one-of-a-kind capability that delivers you more knowledge for less money, no matter where your vehicles travel.

*Better Coverage than Cellular.* For operators with vehicles that operate outside of metropolitan areas, cellular just isn't an option – you can never be sure you'll be in range of a signal. The SkySite Network gives you coverage everywhere with no gaps and no dead zones.

*Better Service than Satellite.* Like the SkySite Network, satellite systems are designed to provide coverage in remote areas. Unfortunately, they're not cost effective for reporting more than a few times per day. With the SkySite Locator, you can get coverage everywhere and thousands of reports a month at an affordable price that satellite can't offer.

### The SkySite Network

Space Data's SkySite® Network is a unique, aerial wireless network that provides ultra-wide area two-way data communications services throughout the south-central U.S.



### SL-3100 Features

- Unlimited SkySite Network coverage in TX, OK, AR, NM and LA
- 24 x 7 real-time location, status and alarm information (duplex)
- Low-profile dual-mode RF/GPS antenna included
- Data logging
- Locally or remotely configurable reporting schedule: continuous, on-demand, hourly or customized
- Locally or remotely configurable geofencing
- Ten inputs and outputs to and from sensors, contact closures, relays and other sources are customizable for any application
- Program more than 200 exceptions, actions, events and inclusions / exclusions such as excessive speed, engine use and idle time, alarm alerts and geofence infractions
- 20-channel high performance SirfstarIII GPS receiver
- Power save mode
- Easy installation

# SL-3100 Specifications

The SL-3100 SkySite Locator combines highly accurate GPS location technology with a range of analog and digital I/O and affordable ultra-wide area wireless communications to give fleet and operational managers 24x7 location and status information for the entire vehicle fleet. The SL-3100 operates over the SkySite Network, thus ensuring that fleet vehicles can be immediately located any time day or night, no matter where they may be traveling.

General	
RF protocol	ReFLEX 2.7
Tx frequency	896–902 MHz
Rx frequency	929–932, 935–942 MHz
Message length	4096 bytes (max)

Power	
Input voltage	9 – 28 VDC
Max Tx current	< 0.7A (@12V)
Max Rx current	< 8mA (@12V)
Avg. current drain	8mA (@1 report/hour @12V)
Power save mode	< 100µA (@12V)

GPS	
Channels	20
Hot start TTF	8 sec typical
Warm start TTF	38 sec typical
Cold start TTF	42 sec typical
Position accuracy	< 10 meters
Update rate	1 sec (max)

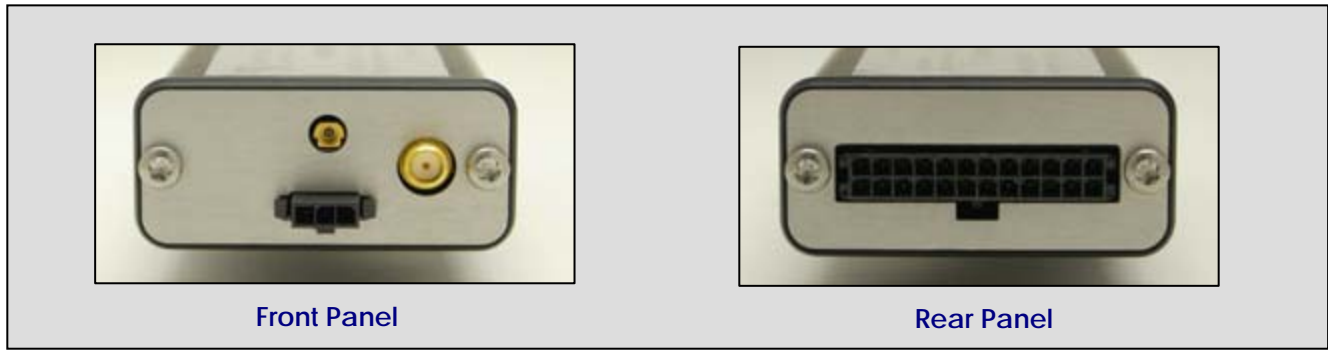
Environmental	
Operating Temp	-40°C to +85°C
Humidity	5% to 95% non-condensing

Warranty	
Hardware	One year parts & repair labor

Physical Characteristics	
Weight (main module)	5.4 oz. (155 g)
Weight (antenna + cable)	14.1 oz. (399 g)
Dimensions (main module)	1"H x 2.25"W x 5.25"D
Dimensions (antenna)	4"H x 1.5"W x 1.5"D
Case	Extruded aluminum
Connectors:	
GPS	MMCX (Female)
ReFLEX	SMA (Female)
Data, control & power	24-pin Molex

Data and Sensor Interfaces	
<i>Six general purpose I/O, each configurable as:</i>	
Analog input	12-bit, 0 – 2.5V
Analog input	4 – 20 mA loop
Analog output	0 – 2.5V (two max)
Digital input	0 – 3.3V
Digital output	3.3V
Open collectors	2 (2A max)
Switch closure inputs	2
Serial data port (RS-232)	1
Parallel data port (RS-422)	1

Over-the-Air Commands	
• Geofencing	• I/O configuration
• GPS message content	• Event reporting
• GPS reporting interval	• Alarm reporting



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Space Data Reseller:

4000 S. DESERAIN BLVD, SUITE 1110  
Chandler, AZ 85224  
www.spacedata.net

