

SureLinx™ 8100 Satellite/GPRS Terminal

Product Overview

SkyWave's SureLinx™ 8100 terminal is a dependable, fully-integrated D+/GPRS wireless controller. It sets the standard for reliable asset tracking and management systems at a low overall total cost. The SureLinx 8100 ensures that your applications are delivered with lowest cost message routing using GPRS/EDGE networks when your assets are in cellular coverage, automatically switching to SkyWave D+/IsatM2M satellite service where necessary, maintaining a critical life-line link to your assets. Assets moving anywhere in the world are visible and reachable at all times by your business operations.

The SureLinx 8100 is a compact device with quad-band GPRS and SkyWave D+/IsatM2M satellite transceivers, GPS, discrete input/output feeds and a programmable controller. Program the device to report by time, distance, Geofence or any other criteria to meet your specific application needs. A single device and interface to both GPRS and D+/IsatM2M networks eliminates many additional components and integration issues, allowing you to build more robust

Applications

GPS reporting enables asset tracking for fleet management and security. With its low profile design, the SureLinx 8100 is compact and inconspicuous for covert installations. Combined with built-in alert capabilities, your assets will operate more efficiently and at lower risk. This means significant improvement to your bottom line.

Trucks and containers traveling across the country continually move in and out of cellular coverage—ships enter and leave port and the coastline and in-land vessels follow rivers along borders and through valleys. No matter where your assets travel, the SureLinx 8100 keeps you covered with SkyWave's global, seamless network services.

While in cellular coverage, your application can send frequent, cost-effective updates using GPRS. But while outside of cellular range, the SureLinx 8100 automatically switches to D+/IsatM2M satellite 'exception mode', sending critical updates only when necessary.

The SureLinx 8100 works with SkyWave's unique Versa gateway to provide a single, easy-to-use interface to both GPRS/EDGE and D+/IsatM2M networks so that your applications operate more efficiently. You can add new features more quickly, and get your applications up and running faster. A single point of contact with SkyWave for both GPRS and D+/IsatM2M networking means a high level of dependability, performance and satisfaction. You also achieve significant cost savings in the development and support of your applications.



Key Benefits

- Eliminates excess hardware component cost
- Fewer components increases reliability; reduced integration and support costs
- Simplifies application development and reduces time to market
- Low total cost of ownership

Key Features

- Compact & inconspicuous
- Quad-band GSM/GPRS
- SkyWave D+ and IsatM2M support
- Global roaming
- Least-cost message routing
- Optional message priorities
- Common exception reports
- Long GPRS-only messages
- Exception-based reports
- Over-the-air programming
- Expandable inputs/outputs
- Geofence capabilities
- Integrated Data Log



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Technical Details

- Full API & development toolkit for scripting
 - 32 Actions
 - 16 Alarms
 - 16 Timers
- Serial I/O via RS-232
- 20 Integrated I/O lines
 - Digital or analog
 - Wake-up enabled
 - Expandable
- From-terminal messaging
 - 10.5 byte
 - 25.5 byte (IsatM2M option)
 - Up to 200 bytes (GPRS)
- To-terminal messaging
 - Up to 100 bytes plus 4 alert codes
- Support for NMEA formatted output from GPS

Product Specifications

Physical	Size	Transceiver: 155mm x 125mm x 51mm Satellite antenna: 127mm x 93mm x 23mm Transceiver: 244g; Satellite antenna: 166g
	Weight	
Environmental	Operating Temperature	Transceiver (In-cab): -30C to +65C Satellite & GPRS antennas: -40C to +75C
	Storage Temperature	-40C to +85C
	Humidity	95% Relative Humidity at 30C
	Vibration	5-20 Hz; 1.92 m2/s3 random noise 20-500 Hz; -3dB octave random noise
Electrical	Shock (survival)	Half sine 6ms, 300m/s2
	Input Voltage Power Consumption (typ @ 12VDC)	9 VDC to 32 VDC Receive: 2.0W (typical) GPRS Inactive: 1.5W GPS/GPRS Inactive: 0.9W Transmit: 10W (D+ & IsatM2M) Transmit: 8W (GPRS) Sleep: 300µA
Satellite	Mating Connector	Transceiver I/O: JAE IL-AG5-30S-D3C1 Satellite Antenna: Fakra FAI-NARP-PCB-M GSM/GPRS Antenna: SMA female
	Network Coverage	To +/- 75 degrees latitude with 5 overlapping Ocean Regions
GSM/GPRS	Frequency	Rx: 1525.0 to 1559.0 MHz Tx: 1626.5 to 1660.5 MHz
	EIRP	9 dBW max
	Elevation Angle	0 to 90 degrees
	GPS	16 channels; 1575.42 MHz
	Accuracy	3 m CEP; 5 m SEP
Certifications and Compliance	Frequency	850/1900/900/1800 MHz
	GPRS data	Class 12 multislot; Coding scheme 1 to 4 Class B mobile station; PBCCH support Class 4 (2W) for EGSM 850 and 900 Class 1 (1W) for GSM 1800 and 1900
Output Power		
		Inmarsat Type Approval R&TTE (CE Marking); PTCRB; FCC; RoHS Transceiver (In-cab): IP40/NEMA1 Satellite antenna: IP66/NEMA4X

Product	Application/Configuration Description	Ordering Code
SureLinx 8100	SureLinx 8100 Satellite/GPRS; GPS; side-mount magnet 5 m antenna cable	SM200235-GM5*
	SureLinx 8100 Satellite/GPRS; GPS; side-mount 5 m antenna cable	SM200235-GS5*
SureLinx 8100 Evaluation Kit	Evaluation Kit for SureLinx 8100; (includes terminal, airtime, support & training)	SM200251-EA1
SureLinx 8100 Feature Options	Factory configure for D+ Operation	F0001
	Factory configure for IsatM2M Operation (default)	F0002

*Mating cable not included

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