

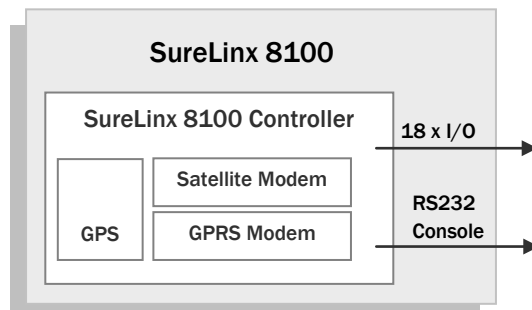
A compact device with GPRS and satellite connectivity, the SureLinx 8100 provides uninterrupted global coverage at the lowest message cost.



The dual-mode SureLinx 8100 provides customers with the advantage of global coverage and reduced operational costs by intelligently delivering data messages using lowest-cost message routing. It uses cellular frequencies when in range of terrestrial networks and seamlessly switches to SkyWave IsatM2M satellite service in other areas. This ensures that assets moving anywhere in the world are easily reachable at all times.

The SureLinx 8100 works with the SkyWave's Versa gateway to provide a single, easy-to-use interface to both GPRS/EDGE and IsatM2M networks. Our integrated approach ensures a high level of dependability, performance and satisfaction.

Our common development toolkit allows you to quickly create new applications and add new features—all designed to achieve significant cost savings in the development and support of your applications.



FEATURES & BENEFITS

- **Fully-integrated satellite/cellular package** eliminates integration and installation issues. Increase reliability while reducing integration and support costs.
- **Exception-based reporting** based on time, distance, Geofence or other criteria reduces operating costs without sacrificing functionality.
- **Intelligent message routing** increases reliability and lowers networking costs by automatically selecting which network to use.
- **Data Log** maintains detailed information that can be extracted when convenient and cost-effective.
- **Low-profile Inmarsat/GPS antenna** can be installed inconspicuously for security applications.
- **Over-the-air programming** enables remote reconfiguration—anytime and anywhere.
- **Common development platform** allows customers to use the same great tools for creating applications on both the DMR and SureLinx platforms.

The SureLinx 8100 includes a quad-band GPRS transceiver, a SkyWave IsatM2M satellite transceiver, GPS chip, access to discrete input/output feeds and programming environment.

SURELINX™ 8100 SATELLITE/GPRS TERMINAL

PHYSICAL

Size	<ul style="list-style-type: none">Transceiver: 155 x 124 x 41 mmSatellite antenna: 127 x 93 x 23 mm
Mass	<ul style="list-style-type: none">Transceiver: ~244 gSatellite antenna: 379 g (with 5 m cable)

ENVIRONMENTAL

Operating Temperature	<ul style="list-style-type: none">Transceiver: -30°C to +65°CAntenna: -40°C to +85°C
Storage Temperature	<ul style="list-style-type: none">Transceiver and antennas: -40°C to +85°C
Humidity	<ul style="list-style-type: none">95% Relative Humidity at +30°C non-condensing
Dust & Water Ingress	<ul style="list-style-type: none">Transceiver: IP40/NEMA1Satellite antenna: IP67/NEMA-4X
Vibration	<ul style="list-style-type: none">5-20 Hz; 1.92 m2/s3 random noise20-500 Hz; -3dB octave random noise
Shock (survival)	<ul style="list-style-type: none">Half sine 6ms, 300 m/s²

ELECTRICAL

Input Voltage	<ul style="list-style-type: none">9 VDC to 32 VDC
Power Consumption (typical @ 12VDC)	<ul style="list-style-type: none">Transmit mode: 7.6W (satellite)Tracking mode (GPS on, GPRS on): 1.5WSleep mode: 3.6mW
Mating Connector	<ul style="list-style-type: none">Transceiver I/O: JAE IL-AG5-30S-D3C1Satellite Antenna: Fakra FAI-NARP-PCB-MGPRS Antenna: SMA female

SATELLITE COMMUNICATIONS (D+/ISATM2M)

Frequency	<ul style="list-style-type: none">Rx: 1525.0 to 1559.0 MHzTx: 1626.5 to 1660.5 MHz
EIRP	<ul style="list-style-type: none">9 dBW max
Elevation Angle	<ul style="list-style-type: none">0 to +90 degrees

GSM/GPRS COMMUNICATIONS

Frequency	<ul style="list-style-type: none">850/900/1800/1900 MHz
GPRS data	<ul style="list-style-type: none">Class 12 multislot; Coding scheme 1 to 4Class B mobile station; Full PBCCH supportSupports NMEA formatted output from GPS
Output Power	<ul style="list-style-type: none">Class 4 – 33dBm ± 2dB for EGSM 850/900Class 1 – 30dBm ± 2dB for GSM 1800/1900
SIM Card	<ul style="list-style-type: none">3.3 V SIM (Customer Supplied)

GPS

Channels	<ul style="list-style-type: none">16 channels; 1575.42 MHz
Acquisition	<ul style="list-style-type: none">Cold-start 34sSuperSense®: -148dBm
Accuracy	<ul style="list-style-type: none">3 m CEP; 5 m SEP

CERTIFICATIONS & COMPLIANCE

Satellite	<ul style="list-style-type: none">Inmarsat D+/IsatM2M Type Approval
GPRS	<ul style="list-style-type: none">PTCRB
Regulatory	<ul style="list-style-type: none">FCC, RoHS, IC pending, CE Mark (R&TTE), Anatel

DATA LOG

Extraction	<ul style="list-style-type: none">GPRS, Satellite or RS232
Capacity	<ul style="list-style-type: none">320 kB; Up to 17,200 points

PROGRAMMING CAPABILITIES

Script Logic	<ul style="list-style-type: none">128 Actions; 64 Alarms; 64 Timers; 32 Data transformers128 Geofences (circular, rectangular, polygons)
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EXTERNAL INTERFACES

Serial	<ul style="list-style-type: none">RS232: 1 console interface,Supports optional NMEA outputPassword-protected access
Analog/Digital	<ul style="list-style-type: none">Up to 18 software-configurable inputs or outputs4 wake-up enabled

FROM-TERMINAL MESSAGING

IsatM2M	<ul style="list-style-type: none">Up to 25.5-byte payload
GPRS	<ul style="list-style-type: none">Up to 200-byte payload

TO-TERMINAL MESSAGING

IsatM2M	<ul style="list-style-type: none">4 alert codes + Up to 100 bytes
GPRS	<ul style="list-style-type: none">Up to 200 bytes

ORDERING CODES

SM200235-GS5	<ul style="list-style-type: none">SureLinX 8100 terminalSide-mount satellite antenna (5m cable, Fakra)GPRS antenna (2.5m cable, SMA)
SM200235-GM5	<ul style="list-style-type: none">SureLinX 8100 terminalSide/magnet-mount sat. antenna (5m cable, Fakra)GPRS antenna (2.5m cable, SMA)
SM200235-GR5	<ul style="list-style-type: none">SureLinX 8100 terminalSatellite antenna, bottom-mount SMA female5m cable, Fakra to right-angle SMAGPRS antenna (2.5m cable, SMA)
SM200269	<ul style="list-style-type: none">Evaluation Kit for SureLinX 8100; includes terminal SM200235-GM5, airtime, support & training

Note: Unpackaged antennas, transceivers and variable length cables are available. Contact a SkyWave representative for more information.



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About SkyWave Mobile Communications

SkyWave Mobile Communications designs and manufactures integrated D+/IsatM2M satellite terminals, dual-mode satellite/GPRS terminals and provides network services to enable dependable, low-cost, remote management, security and logistics solutions for fixed and mobile assets. SkyWave's products are designed for a broad range of industries including land mobile, marine, oil & gas, SCADA, government and defence.

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

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