

# SureLinx 8100/8100c

Satellite/GPRS Communication Terminal



**SureLinx 8100/8100c**

When in range of cellular networks, the SureLinx dual-mode terminal uses cellular frequencies to communicate vehicle location and other vital information. The terminal automatically switches to satellite service when out of cellular reach, ensuring constant visibility and communication.

## SATELLITE COMMUNICATION

Satellite Service	Two-way, IsatM2M
Coverage	Global
From-Mobile Message	Up to 192 bytes (IsatM2M) Up to 200 bytes (GPRS)
To-Mobile Message	Up to 100 bytes (IsatM2M) Up to 200 bytes (GPRS)
Typical Latency	<30 seconds
Elevation Angle	0° to +90°
Frequency	Rx:1525.0 to 1559.0 MHz Tx:1626.5 to 1660.5 MHz
EIRP	9 dBW max

## GPS

Acquisition Time	Cold-start: 34 s SuperSense <sup>®</sup> : -148 dBm
Accuracy	3 m CEP; 5 m SEP

## EXTERNAL INTERFACES

Inputs/Outputs	18 – Analog or digital in/out
Serial	1 - RS232: console interface 1 - RS232 (SureLinx 8100c) 1 - RS485 (SureLinx 8100c)
Vehicle Diagnostics	2 - CANbus (SureLinx 8100c)

## ELECTRICAL

Input Voltage	9 to 32 VDC
Power Consumption (Typical @ 12VDC, 22°C) SureLinx 8100/8100c	Transmit: 10.3 W/10.6 W Tracking (GPS on): 1.2 W/1.4 W Hibernate: 0.3 mW/0.6 mW

## PROGRAMMING

Script Logic	128 actions, 64 alarms, 64 timers, 32 data transformers
Data Log	320 KB, up to 17,200 positions
Geofencing	128 polygons

On-Board Computer (SureLinx 8100c)	Bus Application Controller with C-programming environment, API library, 256 KB program memory, 30 KB SRAM, 16 MB flash
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## ENVIRONMENTAL

Operating Temperature	Transceiver: -30°C to +65°C Satellite Antenna: -40°C to +85°C GPRS Antenna: -25°C to +70°C
Storage Temperature	-40°C to +85°C
Dust & Water Ingress	Transceiver: IP40/NEMA-A1 Satellite Antenna: IP67/NEMA-A1

## CERTIFICATION

Satellite	Inmarsat Type Approved
Regulatory	FCC; PTCRB; RoHS; CE Mark (R&TTE); Anatel, IC pending

## ORDERING CODES

SM200288-GS5	SureLinx 8100 (side)
SM200288-GM5	SureLinx 8100 (side/magnet)
SM200288-GR5	SureLinx 8100 (bottom)
SM200289-GS5	SureLinx 8100c (side)
SM200268	Evaluation Flex-Kit: Cables for DMR/SureLinx, airtime, and support. Order any terminal separately.

IsatData Pro is a trade mark of Inmarsat and is a service delivered by SkyWave Mobile Communications through the Inmarsat network.

## HOW TO BUY

SkyWave mobile devices and satellite airtime services are available through a network of Solution Providers who offer turnkey solutions and industry expertise. Visit us at [SkyWave.com](http://SkyWave.com) to learn more.

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SATELLITE COMMUNICATIONS  
Positioning technology provided by **ublox** **inmarsat**