

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 [®] : -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 - RS485 (SureLinx 8100c)
Vehicle Diagnostics	2 - CANbus (SureLinx 8100c)

ELECTRICAL

Input Voltage	9 to 32 VDC
Power Consumption (Typical @ 12VDC, 22 °C)	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

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: IP40/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.
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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.

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