



seal . track . trace

## RadioSecure™ SLM-i



RadioSecure™ SLM-i is the industry reference in the world of logistics as well as supply chain integrity. It uses cutting edge technology for tracking intermodal containers and conveyances using active RFID, GPRS, GPS and Satellite Communication technologies.

It is one of the base members of the RadioSecure™ range of revolutionary products with wireless connectivity to the RadioSecure™ Site Manager, Xtivator, SLA, SLE, SLL, SLS and/or Wireless Sensors.

RadioSecure™ SLM-i periodically reports security and environmental status via GSM infrastructure to a hosted web base supply chain security and location visibility system. Should there be no GSM network coverage, RadioSecure™ SLM-i automatically uses Satellite Communication technology to deliver data. Equipped with Smart Logic, it is also capable of automatically revert to GSM network depending on availability.

In the event of unauthorized unsealing or violation of any pre-set parameters, RadioSecure™ SLM-i will switch to Event Reporting to report the event without any delay.

**ENVOTECH NETWORK SDN BHD (657306-W)**

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## Specification

Model Number	RS-SLMx-324C	Radio Frequency Cable Security Seal
Physical	L x W x D	275mm x 171mm x 57mm
	Standard Cable Length	50cm
	Weight	1215g
	Color	Black
Environmental	Operating Temperature	-30°C to 70°C
	Storage Temperature	-40°C to 80°C
	Humidity	95% non-condensing
	Vibration & Shock	MIL-STD-810-F
	Weatherproofing	IP67
Wireless	Frequency	ISM 2.4Hz QFSK modulation
	Active Transmission Power	<18dBm (≈100mW)
	Range	200m L.O.S.
	Protocol	Proprietary
	Air Data Rate	250kbps
GSM/GPRS	Bands	GSM/GPRS/EDGE Quad Band 850/900/1800/1900 MHz
	SIM	Dual-SIM slots (Primary & Secondary)
	Failover	GPRS failover to Iridium or SMS
Satellite Constellation System	GPS Channel	99
	GPS Sensitivity	-162dBm to -165dBm
	Position Accuracy	Autonomous 3m SBAS 2.5m
	Maximum Velocity	<515m/s
	A-GPS	Yes
	GLONASS	Yes
	Antenna	Built-In active Antenna
Long Range Radio	Frequency	1616MHz – 1626MHz
	Mode	SBD
Memory Capacity	Internal Flash Memory	256KB / 512KB
	External Flash Memory	16MB
Electrical	Battery	Rechargeable Built in
	Battery Capacity	3.7V, 10400mAh to 20800mAh
	Battery Type	Lithium Ion
	Active Current Drain	<350mA
	Inactive Current Drain	<3mA
RF Data	Packet Data	32 bytes per FIFO
Mechanical	Break Load	>1000kgf (cable)
Accessories	Bolt header cable	Custom cable length upon request
	Disposable H-bolt 136mm	High Security seal configuration
	Reusable S/S H-bolt 116mm	To be use with K-flex cable seal or pull tight plastic seal
	Magnet	Optional magnet mount
	K-Flex 1.5	1.5mm cable seal, 300 pc per carton
	Starseal 150	Pull tight plastic seal, 1000 per carton

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## Functionality of Firmware



Ability of monitoring up to 25 SLA. SLA to be monitored can be dynamically paired by OTA command.



Battery life span of 25 days for 5 minute reporting interval



Capable of detecting GSM Jammer



Possibility of retrieving all data from the journey locally (e.g. registered handheld device)



Spring loaded components and debounce logic eliminate false alarm



capable of instant SMS alert from the RS SLM directly



Option of Server intervention to power down device



Choice of reporting via UDP or TCP feature



Ability to report to 2 separate server



Reports Cell ID when GPS is invalid



Every communication with SLM including SMS command or handheld reader is recorded



Capable of reporting via time interval or distance interval

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