



seal . track . trace

RadioSecure™ SLM-uhf 4.0



RadioSecure™ SLM 4.0 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.

The RadioSecure™ SLM 4.0 provides security-tampering sensor more than a simplistic inspection system. RadioSecure™ SLM enables shippers, carriers and logistics service providers to actively monitor the security and integrity of shipments as their containers move throughout the global supply chain.

Equipped with UHF technology, it has wake up capability at chokepoint installed with RadioSecure™ Site Manager. The Wake Up Event provides absolute read and physical affirmation of the presence of container being tracked.

It periodically reports security and environmental status via GSM infrastructure to a hosted web base supply chain security and location visibility system.

In the event of unauthorized unsealing or violation of any pre-set parameters, RadioSecure™ SLM 4.0 will switch to Event Reporting to report the event without any delay.

ENVOTECH NETWORK SDN BHD (657306-W)

No. 1, Lot 4324N, Bulatan Cherry, Off Jalan Tun Abdul Razak, 30100 Ipoh, Perak, Malaysia.

Tel: +605-527 8287/+605-527 9287 Fax: +605-526 1287

Email: presales@envotech.com.my

Website: www.envotech.com.my



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Specification

Model Number	RS-SLM-uhf-324C	Radio Frequency Cable Security Seal
Physical	L x W x D Standard Cable Length Weight per set Color	240mm x 120mm x 57mm 50cm 1215g Blue
Environmental	Temperature Humidity Vibration & Shock Weatherproofing	-30°C to 70°C 95% non-condensing MIL-STD-810-F IP67
Wireless	Frequency Active Transmission Power Range Protocol Air Data Rate UHF UHF compliant	ISM 2.4GHz QFSK modulation <18dBm (≈100mW) 200m L.O.S. Proprietary 250kbps 860MHz – 960MHz ISO 18000-63 (Gen2) & 18000-64 (TOTAL)
Network Communication	EGPRS Bands LTE FDD Cat M1 SIM Failover Option	850/900/1800/1900MHz B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B26/B28 B39 Dual-SIM slots (Primary & Secondary) LTE Cat M1/Cat NB-IOT/EGPRS failover to SMS
Satellite Constellation System	SCS Channel A-GPS GLONASS Antenna	66 Yes Yes Built-In active Antenna
Memory Capacity	Internal Flash Memory External Flash Memory	512KB 16MB
Electrical	Battery Active Current Drain Inactive Current Drain	Rechargeable 3.7V Option of 10.4AH, 13AH, 14AH, 17.5AH Lithium Ion <300mA <3mA
RF Data	Packet Data	32 bytes per FIFO
Mechanical	Break Load	>1000kgf (cable)
Accessories	Bolt header cable 12” Bolt Lock Disposable H-bolt 136mm K-Flex 1.5 Starseal 150	Custom cable length upon request High Security Bolt Seal with Key High Security Bolt Seal 1.5mm Cable Seal, 300 pc per carton Pull Tight Plastic Seal, 1000 per carton

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Functionality of Hardware



PATENTED LOCKING MECHANISM

THE RE-USABLE CABLE LOCKING MECHANISM PRACTICALLY SEALS ANY ASSET. THIS PATENTED DEVICE (PATENT ID: 8593280) IS COMPACT, LIGHTWEIGHT, RUGGED AND RE-USABLE, MAKING IT THE MOST COST EFFECTIVE SOLUTION IN THE MARKET FOR TRACKING CARGO AND ENSURING SECURITY.

2 SUPER STRENGTH NEODYMIUM MAGNET WITH BACK SHIELD SECURED TO THE HOUSING

WITH THE ADD-ON OF THE SUPER STRENGTH NEODYMIUM MAGNET, RS SLM IS SECURELY ATTACHED TO THE CONTAINER OR TRUCK. THIS COMPLETELY RESOLVES THE ISSUE OF RS SLM CONSTANTLY KNOCKING ON THE CONTAINER OR TRUCK DOOR. THIS SIGNIFICANTLY REDUCES DAMAGE TO CONTAINER AS WELL AS RS SLM GIVING THE RS SLM A MUCH LONGER LIFESPAN.



UHF WAKE UP FOR CHOKEPOINT MONITORING

CONFIGURABLE COMMUNICATION RANGE PROVIDES ACCURATE CHOKEPOINT READ. IDEAL FOR BORDER CHECK POINT IN ECTS APPLICATION, ENTRY AND EXIT GATE TO PREMISES AND AUTOMATIC TELEMETRY ACCESS CONTROL.

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Functionality of Firmware



Ability of monitoring up to 25 SLx wirelessly



Battery life span of 25 days for 5 minute reporting interval



Capable of detecting GSM Jammer*



Retrieving data from the journey locally (e.g. via registered handheld device)



Event - to Server time of 5 seconds*



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



Dual sim card with ability to report to 4 separate server



Reports Cell ID when GPS is invalid



any intervention by peripheral devices with SLM is recorded



Capable of reporting via time interval, distance interval or roaming interval



Sim Card Cover Open and Close Detection Alert.



Speed Threshold Alert



Break Load of >1000kgf

*Subject to fine tuning.

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