

TrailerSEAL



Where security, visibility and portability meets

Product Code: FGME-HSAMB12SM0RF2BTAAC0

The **TrailerSEAL** is beyond a standard GPS/GSM tracker product.

It is a durable, robust and portable product with a long lasting rechargeable Battery which operates as a Standalone.

This Seal & Lock device requires no installation and little effort to kick start operations.

The TrailerSeal is a reusable High Security Electronic Seal complying with many international security seal standards.

The TrailerSeal provides full security and visibility in real time of company assets monitored by its Seal sensors.

In addition to operating as a Standalone, the TrailerSeal is capable of creating a small Star based Wireless Network of its own.

Meaning, the TrailerSeal's functionalities can be further expanded by adding compatible sibling devices. For instance, when

there is MORE than one area to seal, an RFSeal (a trim down version of the TrailerSeal) is an option to report its status via RF

to the TrailerSeal. Making the TrailerSeal a reporting gateway to the sibling devices' (RFSeal) for events and status updates.

Besides the RFSeal, there is range of other sibling devices that will work hand in hand to complement and to expand the

TrailerSeal's features and performance.

ELECTRONICS 'MASTER DEVICE' HARDWARE SPECIFICATIONS

- Automotive 32bit ARM Cortex with own proprietary RTOS
- Battery Input Voltage Range: Nominal 3.7V (Range 3.5V – 6.5V)
- Non replaceable & Rechargeable Li Ion or Li Polymer Battery pack built in (from 5,200mAh up to 15,600mAh of capacity) to provide up to average 45days of operations between charging.
- Active Power Consumption: ~240mA (All peripherals ON). Smart Sleep: <900 A
- GPS SiRF III 16CH (Optional Extended Ephemeris aGPS for fast fix interface) Built In GPS Patch Antenna
- GSM/GPRS/EDGE Quad Band 850/900/1800/1900MHz (GPRS class 10: DNS/TCP/UDP/FTP) Built in Antenna
- Dual SIM (Independent, complementing)
- 3D Accelerometer (+/- 6g) with User Settable Impact detection and reporting.
- User Interfaces – miniUSB2.0 for User diagnostic & settings, Full Device Reprogramming.
- 4,000 points of memory storage when unable to report
- Visible LED indicators x 3 (RED, BLUE, GREEN)
- Optional Manufacturer Remote Health Check & Support on individual devices.

DEVICE LEVEL DIMENSIONS & WEIGHT

- 214mm (L) x 197mm (W) x 40mm (H), ~1.28Kg

PROPRIETARY 2 WAY RF SPECIFICATIONS (RECEIVER BASED)

- Working Radio Frequency band: Worldwide ISM 2.4GHz QFSK modulation
- Frequency Hopping Spread Spectrum: minimum requirement 5 channels of availability
- Air data rate: 250kbps
- Active Transmission power: <20dBm
- Estimated L.O.S (no obstacles in between): 10meters PID; 400meters – SLS, SLA, TTS.
- Active duration reception duty cycle: user settable. Dft:33.33%
- Active current during reception mode: <80mA

ELECTRICAL COMPLIANCES

- FCC Part 15, CE
- ESD, EMC

Overall Functionalities

- Overall Mechanical Compliances:

IEC60529 : IP65 (Dust & Water Splash Proof)

ISO-17712 (Tamper Evident Indications)

MIL-STD-810F (MIL grade Shock, Vibrations)

- Re-useable Bolt & Cable Assembly
- Cable characteristics: Satisfies ISO 668 Dry Van

Shipping containers and other conveyances

- **Seal on Seal:** Important Option to add a variety of secondary independent consumable seals after commissioning. Any standard barrier high security bolt seals of C TPAT compliance or indicative plastic seals can be added as an independent second layer to the SLM.

- Sealing & Locking the SLM can be carried out in a matter of seconds without the needs of a customized purchase of consumable components. SLM users can choose their own preferred secondary independent seals.

EXPANSION CAPABILITIES: Compatible Devices in communications

GMOC SLM has Wireless RF connectivity to receive, detect and respond to statuses of in range designated grouped SLS, PID, TTS and many more.

- **PID** : Product Code: **FGSA HS6SL1RF4BT4AC0**

Personal Identification device that broadcasts periodically its presence coupled with wireless PANIC button function

- **SLS** : Product Code: **FGSB HSXSL2RF1BT0AC0**

Wireless Intelligent Seal & Lock device that periodically broadcasts its presence coupled with security switch & optional high accuracy temperature & humidity sensors statuses on a long range >250 meters L.O.S

- **TID** : Product Code: **FGSD HS7SL1RF4BT4AC0**

A RFID based product that is mounted to a Trailer on a permanent basis which updates any Master devices of its ID & presence



Mobile Wireless Connectivity



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