NOVA
MOBILE SYSTEMS

Wired Asset Tracker

NMS810-CM SPECIFICATION SHEET

OVERVIEW

The NMS810-CM is an extremely versatile, low cost, wired tracking device. With this asset tracker, operations managers monitor the location and status of vehicles, heavy machinery and other mobile assets. The NMS810-CM can connect multiple sensors for monitoring key conditions like battery levels / tank levels / temperature / humidity / door open-close and vehicle speed. Multiple outputs are utilized for external device or vehicle system control. The NMS810 supports 4G Cat-M1 / NB IoT networks to keep data costs low and offer increased indoor performance.

HIGHLIGHTS

- **Tracking:** Sends real-time vehicle location and speed.
- **Backup Battery(optional):** 300mAh with low battery warning and disconnect alert system.
- **Programmable Alerts:** Customizable geofencing, over speed limit, high / low temperature ranges, device movement and more.
- **3-Axis Accelerometer:** Detect trip start / end, report harsh braking, acceleration and impact upon collision.

- **Message Store and Forward:** Up to 300 messages or alerts
- **Deep Sleep Power Saving Mode:** Ultra low consumption when vehicle engine is off or device is at rest. Can be controlled via SMS.
- **Monitor & Control:** Multiple I/O connections suit a variety of needs.
- **Geofencing Capabilities**
- **OTA (Over the Air):** Firmware can be upgraded via TCP.

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BENEFITS

- Multi-Carrier Device
- Unauthorized Use Tracking
- Mileage and Driver Behavior Monitoring
- Simple / Discrete Installation
- Low Cost / Easy To Use

SPECIFICATIONS

LTE	Cat.M1 & NB1: Output Power: 23dBm±2.7dBm LTE-FDD: B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20 B25/B26/B28 LTE-TDD: B39 (for Cat.M1 only)
GSM	GSM850/GSM900/DCS1800/PCS1900 Output Power: GSM850/900: 33dBm±2dBm DCS1800/ PCS1900: 30dBm±2
Device Control and Reporting	HTTP/TCP/UDP/SMS
GPS Sensitivity	-162dBm Tracking Sensitivity Accuracy(Open Sky): < 2.5m (CEP50)
Comprehensive IO's	4 Inputs / 2 Outputs / 2 A/D Inputs and 3 UARTS - Two 4-20ma (and/or 0~3.3Vdc) inputs, serial / RS232 (or RS232 modbus ascii/RTU with SW configuration) input and one open collector output for relay control, one low to high Triggered input. - 2 analog sensors and 1 RS232 (Serial or modbus) sensor, a close / open or alarm on / off sensor and trigger one external de vice output via the NMS810-CM's Power (12v) io such as a relay;
Power Consumption	- Active Mode: <32 mA @12VDC - Sleep Mode: <22 mA @12VDC
Operational Temperature Range	-20C to +65C
Motion Detection	Built-In 3-Axis Accelerometer
Battery Capacity	300 mAh
Supply Voltage	6-42 VDC
Storage Temperature(Without Battery)	-40C to 85C
Housing Dimension	90mm *55mm *18mm
Certificates	PTCRB,FCC,RoHS