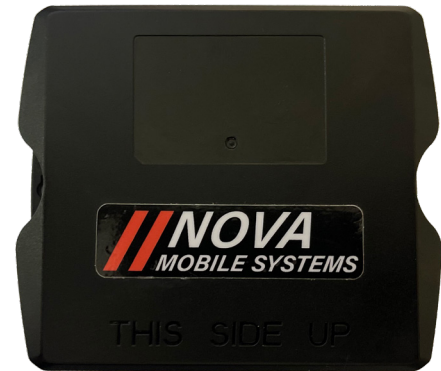




Wired



Battery

## OVERVIEW

Uniquely flexible, the NMS828 GPS tracker is waterproof, rugged, can be used with its 5 year battery or with the optional wiring harness offering multiple I/O connections. The NMS828 is ideal for Trailers, Heavy Equipment or other mobile assets. The NMS828 GPS tracker is designed for fast and easy installation with or without its removable mounting bracket. Overall the NMS828 is a high-performance, IP67 rated device with an integrated LTE Cat-M1 modem, GNSS receiver and 3-axis accelerometer for cellular data communication, location tracking and motion detection respectively.

## FEATURES

- LTE Cat-M1 modem
- Integrated cellular and GNSS antenna
- LED status indicators for GNSS and network registration
- Integrated accelerometer
- BLE5.0 support, low power consumption
- Large Non-rechargeable or Li-rechargeable backup battery for up to 5 years of operation
- SMS, UDP, TCP, FTP & MQTT
- Up to 16 Geo-fences (polygon and circles)
- Over-the-air (OTA) configuration and firmware updates
- Extended AT Command set for flexible and easy configuration
- IP67 Rating

## **BENEFITS:**

- Multi-Carrier Device
- Unauthorized Use Tracking
- Simple / Discrete Installation
- Low Cost / Easy To Use



## **SPECIFICATIONS:**

### **CELLULAR**

- LTE Cat-M1
- LTE-FDD Bands:  
1/2/3/4/5/8/12/13/17/18/19/20/25/26/28
- LTE-TDD B39
- Integrated high performance antenna
- Auto register to LTE network

### **GNSS**

- GPS, GLONASS, BeiDou & Galileo
- Tracking Sensitivity: -161 dBm
- Acquisition Sensitivity: -146 dBm
- Location Accuracy: < 2.5CEP

### **SENSOR**

- Accelerometer: 3x

### **BATTERY INFORMATION**

- NMS828 N: Non-Rechargeable battery  
6000mAh @ 3.0V.  
Up to 5 years @ 1 report per day
- NMS828 R: Lithium re-chargeable battery  
5600mAh @3.7V. It is designed for use  
when more reports are needed per day so  
the operation time depends on the usage case.

### **ELECTRICAL**

- Operating Current
- ✓ Sleep/Hibernate: < 20uA
- ✓ Tracking: 150mA Typical
- ✓ Reporting: 250mA Typical

### **PHYSICAL**

- Dimensions: 92 x 90 x 22.5mm
- Weight: <150 g
- Internal Cellular and GNSS Antenna

### **ENVIRONMENTAL**

- IP67 Rating
- Operation Temperature: -30°C to +75°C
- Storage Temperature: -40°C to +85°C

### **INTERFACE IO's (for maintenance only)**

- I/O Connector: 6-pins water-proof (POGO Pin)
- ✓ UART1 TTL (3.3V) (RX/TX) (x2)
- ✓ GPIO\_INPUT (x1)
- ✓ DC\_IN (5-36V)(x1)
- ✓ DC\_OUT (x1)  
(Power from internal battery@500mA)
- ✓ GND (x1)

### **APPROVALS**

- FCC
- PTCRB & Carrier Approved