

3 - 7 YR Battery Asset Tracker

NMS821 / 826 SPECIFICATION SHEET



OVERVIEW

The NMS821 / NMS826 battery operated tracking units are intentionally designed for long term field deployments (NMS821; 7 years and NMS826; 3 years). Embedded magnets allow straight forward attachment to vehicles, trailers or containers; expediting asset tracking start up and eliminating the need for professional installation. Furthermore, Cat.M1 and NB capabilities ensure connectivity while keeping data costs low. Nova's Intelligent Power Management (IPM) provides deep sleep power conservation and wakes immediately to report location when the device senses movement; additionally, SMS controls allow remote mode selection (standby, deep sleep). In cases where a GPS signal is unavailable, both devices are capable of automatically switching to Cell-ID based location reporting.

HIGHLIGHTS

- **Tracking:** Sends real-time vehicle location and speed.
- **Cell-ID Based Location:** Device utilizes Cell-ID based location information where GPS is not positioned.
- **Message Store & Forward:** Up to 50 messages.
- **Intelligent Power Saving Mode:** Optimized GPS and low-power CPU, including wake on motion and sleep when stationary features.
- **Flexible Battery Selection:** 7800mAh / 2500mAh.
- **Drop / Disconnect Theft Alarm:** Embedded light sensor detects detachment from the tracking asset.
- **OTA (Over the Air):** Configuration and firm-ware can be remotely upgraded.
- **Waterproof Case:** IP65 rating.
- **Programmable Alerts:** Customizable geofencing, over speed limit, device movement and more.

BENEFITS

- Easy to Use
- Simple / Discreet Installation
- Ultra Long Battery Life
- Battery Low Warning
- Tracking From Anywhere
- Rechargeable



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±2dBm
Device Control and Reporting	HTTP/TCP/UDP/SMS
GPS Sensitivity	-162dBm Tracking Sensitivity Accuracy(Open Sky): < 2.5m (CEP50)
Power Consumption	-Active Mode:< *mA @3.8VDC -Sleep Mode:< *mA @3.8VDC -Deep Sleep Mode:< *uA @3.8VDC
Operational Temperature Range	-20C to +65C
Motion Detection	Built-In 3-Axis Accelerometer
Battery Capacity	821: 7800 826: 2500mAh
Supply Voltage	3.3V~4.5V
Storage Temperature(Without Battery)	-40C to 85C
Housing Dimension	NMS821; 86mm*62mm*33mm NMS826; 86mm*50mm*23mm
Certificates	PTCRB,FCC,RoHS