



# SU-6200

## Cellular LTE-M / NB-IoT

Rugged and robust vehicle, trailer, or heavy equipment tracking device with inputs/outputs, remote immobilisation for fleet management, equipment monitoring, driver ID, theft recovery, and more



### Real-Time Tracking

High-precision GNSS wired tracking device



### Inputs/Outputs

1 x Ignition Digital Input, 3 x Digital Inputs, 1 x Analog Input, 1 x Switched Ground Digital Output



### Backup Battery

Internal Backup Battery in case of loss of power or tampering



### Driver ID

Configure iButton®, TTL, or Wiegand inputs for Driver ID Readers



### Driver Behavior

Run hour monitoring, accident and rollover detection, speeding, harsh braking and cornering, and more



### Remote Immobilization

Immobilization option to safely disable vehicles and equipment remotely



### Ultra-Rugged

Weatherproof and ultra-rugged IP67 Housing

# Connectivity & Location

## LTE-M / NB-IoT Version

Cellular Module	Nordic nRF9160 Modem operates on all major global LTE-M and NB-IoT bands.  Supported LTE bands: LTE-M (Cat-M1): B1, B2, B3, B4, B5, B8, B12, B13, B14, B17, B18, B19, B20, B25, B26, B28, B66 NB-IoT (Cat-NB1/NB2): B1, B2, B3, B4, B5, B8, B12, B13, B17, B19, B20, B25, B26, B28, B66
GNSS Module	uBlox EVA-M8Q
Constellation	Concurrent GPS / GLONASS / Galileo / BeiDou
Channels	72 Channel High Sensitivity Receiver
Tracking Sensitivity	-167dBm industry-leading tracking performance
SIM Size & Access	Internal Micro 3FF SIM
GNSS Assistance	GNSS almanac and ephemeris data for greater sensitivity and position accuracy
Low Noise Amplifier	GPS signals are filtered and boosted by a SAW filter and low-noise amplifier (LNA) allowing operation where other units fail
Cell Tower Location	Cell tower location fallback for positioning when GPS can't get a fix

# LTE-M / NB-IoT Versions

## Power

Input Voltage	8-36V DC (max)
High-Performance Automotive Power Supply	Stringent power “load dump” tests are conducted to ensure operation in the harshest automotive electrical systems. Built-in self-resetting fuse makes installation simple and safe.
Operating Current	<b>LTE-M / NB-IoT</b> ≈50mA when moving + ≈60mA while internal battery charging
Intelligent Power Management	Device enters sleep mode when vehicle is inactive to prevent battery drain
Sleep Current	<1mA
Backup Battery	1100mAh LiPo internal backup battery pack

## Mechanics / Design

Dimensions	125 x 80 x 25 mm (4.92 x 3.15 x 0.98")
Weight	TBD
Housing	Ultra-Rugged IP67 Housing
IP Rating	IP67 rated housing ensures device can withstand fine dust, high-pressure spray, submersion for 30 mins in 1m of water, and extreme temperatures
Installation	10 wire harness 1m Length
Operating Temperature	-30°C to +60°C (connected to external power) At < 0°C and > +40°C the internal backup battery will not be charged as a safety precaution due to the dangers associated with charging batteries at extreme temperatures.
Cellular Antenna	Internal
GPS Antenna	Internal
3-Axis Accelerometer	3-Axis Accelerometer to detect movement, high G-force events, and more
Diagnostic LED	Diagnostic LED indicates operation status
Flash Memory	Store weeks of records if device is out of cellular coverage. Storage capacity for over 10 days of continuous 30-second logging.
On-Board Speed & Heading	The device continuously monitors speed and heading, allowing for over-speed alerts as well as updates on speed and heading changes
On-Board Temperature	The device reports internal temperature and prevents the internal battery charging in extreme temperatures. Internal temperature provides an indication of ambient temperature but may not always be precise.

# Interfaces

Analog Inputs	1 x Analog input. 0-40V
Digital Inputs	<p>3* x Digital Inputs with configurable pull up/pull down 0-48V DC input range</p> <p>On/Off thresholds: Pull-up enabled: low at 0.4V, high at 1.9V Pull-down enabled: low at 0.8V, high at 2.2V</p> <p>Can be used for pulse counting *Digital Input 3 pin shared with Driver ID. Cannot be used in conjunction with Wiegand or TTL readers.</p>
Digital Outputs	<p>1 x Switched Ground digital output - 2A max Easily wired up to switch external lights, relays, buzzers, etc Can be used to immobilize a vehicle</p>
Ignition	<p>1 x dedicated ignition digital input 0-48V DC - 2.2V on/off threshold Can be used as a digital input if not required</p>
TTL Interface	Serial interface used to connect a Digital Matter RFID reader for Driver ID (requires external 5V power source)
Wiegand	Enables easy integration with a variety of Driver ID card types and readers or keypads
1-Wire® or iButton®	1-Wire® or iButton® can be used to read Driver ID tags. Readers available to suit multiple card formats.

# Smarts

Auto-APN	Auto-APN allows the device to analyze the SIM card and select the correct APN details from a list that is pre-loaded in the device's firmware.
Accident & Rollover Detection	Configure accident and rollover alerts triggered by extreme changes in velocity and orientation of vehicle or equipment. Second-by-second GPS data is saved on the device's flash memory, with a capacity of approximately 2 hours of data. In the event of an accident, a subset of the data (60 seconds before / 10 seconds after) is uploaded to the server automatically (if configured) or can be requested manually for a detailed reconstruction of the incident.
Driver ID Options	RFID reader, iButton®, or Wiegand interface for Driver ID, access control, and logbooking
Driver Safety & Behavior	Monitor speeding, harsh acceleration, braking, cornering, idling, and more to improve safety and prevent unnecessary wear on vehicles
Geofence Alerts	The server can use device location to create geofences and alerts if an asset enters or leaves designated locations
Geofence Download to Device	<p>Geofences can be downloaded directly to the device from Telematics Guru for enhanced location-based actions and alerts.</p> <p><b>LTE-M/NB-IoT</b> - Maximum of 500 Geofences with up to 100 points per geofence</p>
GPS Jamming Detection	GPS Jamming or Interference can be detected and alerted on
In-Vehicle Alerts	Can be wired up to external buzzers or lights for in-vehicle alerts
Lone Worker Safety	Interface a variety of duress pendants to enable man-down alerts for lone worker safety monitoring
Preventative Maintenance	Set reminders based on distance traveled and run hours to reduce maintenance and repair costs
Real-Time Tracking	Device remains continuously connected while on the move for real-time asset tracking
Remote Immobilization	Digital outputs can be connected to a relay to enable remote immobilization of vehicles and equipment in the case of theft, abuse, or unauthorized usage

## Smarts (continued)

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Run Hour Monitoring	Calculate run hours and distance traveled (odometer) to understand and optimize asset utilisation
Sensor Monitoring	Interface with a range of devices and switches for seatbelt detection, duress and panic buttons, lights, in-cab warning buzzers, and more
Tamper Alerts	Instant alert if the device is disconnected from its power source
Theft Recovery	Switch to Recovery Mode in the case of theft or loss to activate real-time tracking for asset retrieval

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## Device Management

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Flexible Configuration	Configure device parameters such as position update rate, movement and accelerometer settings, and more to fit any tracking application
Device Management Platform	Manage, monitor, configure, debug, update, and restart devices remotely from our cloud-based device management system
Configuration App	Configurable with DMLink provisioning tool

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## Integration

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Third-Party Integration	TCP Direct or HTTPS Webhook
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## Security

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Data Security	Military-level AES-256 Encryption from device to Device Management Platform to protect the integrity and confidentiality of telematics data. Data forwarded to third-party systems is sent via HTTPS for end-to-end security.
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## Warranty

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Manufacturer's Warranty	Two-year manufacturer's warranty
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## Certifications

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Please visit our knowledge base for a full list of compliance specifications and documentation for your region	Coming Soon
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**Warning:** Please dispose of the unit correctly. Risk of explosion if the device is exposed to extreme high temperatures or fire.