

G70 BLE

Exceptionally Tough

The ideal asset tracker for trailers and heavy equipment within your fleet. The new G70 BLE comes with a whole host of unique features such as Driver ID capability. This device is a whole step above the G62, with several auxiliary hookups for measuring PTO's. It is also equipped with an internal backup battery in case of loss of power or tampering. The G70 BLE is exceptionally tough and weatherproof with IP68 proofing.



Key Features



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 Digital Output



BACKUP BATTERY

Internal Backup Battery in case of loss of power or tampering



BLE TAG & SENSOR MONITORING

Integrate with any third-party Bluetooth accessory for customizable sensor and condition monitoring



DRIVER BEHAVIOR

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



ULTRA-RUGGED

Weatherproof, ultra-rugged IP68 Housing

EXPERIENCE LEADING-EDGE TECHNOLOGY

Contact us today to implement innovative, reliable and scalable asset tracking.

G70 BLE Device Specs

CONNECTIVITY

LTE-M / NB-IoT	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
SIM Size & Access	Internal Micro 3FF SIM
Bluetooth®	Bluetooth 5.2 gateway reports nearby Bluetooth tags and sensors.

LOCATION

GNSS Module	uBlox EVA-M8Q
Constellation	Concurrent GPS / GLONASS / Galileo / BeiDou
Channels	72 Channel High Sensitivity Receiver
Tracking Sensitivity	-168 dBm industry-leading tracking performance
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
Location Accuracy *	~2m CEP

* Positioning accuracy specifications are provided by the module supplier and reflect ideal conditions. Device configuration, installation, environmental conditions, augmentation services, and many other factors may lead to variations in positioning accuracy.

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	≈ 50mA when moving + ≈ 60mA while internal battery charging
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")
Housing	Ultra-Rugged IP68 Housing
IP/IK Rating	Ultra-rugged and waterproof IP68 and IK08-rated housing ensures the device can withstand impact, fine dust, and brief submersion.
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
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 is an indication of ambient temperature; may not always be precise.

INTERFACES

Analog Inputs	1 x Analog input. 0-40V
Digital Inputs	3* x Digital Inputs with configurable pull up/pull down 0-48V DC input range 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 Can be used for pulse counting *Digital Input 3 pin shared with Driver ID. Cannot be used in conjunction with Wiegand or TTL readers.
Digital Outputs	1 x Switched Ground digital output - 2A max Easily wired up to switch external lights, relays, buzzers, etc
Ignition	1 x dedicated ignition digital input 0-48V DC - 2.2V on/off threshold Can be used as a digital input if not required

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.
Geofence Alerts	The server can use device location to create geofences and alerts if an asset enters or leaves designated locations
GPS Jamming Detection	GPS Jamming or Interference can be detected and alerted on
Run Hour Monitoring	Calculate run hours and distance traveled (odometer) to understand and optimize asset utilization
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

DEVICE MANAGEMENT

Flexible Configuration	Configure device parameters such as position update rate, movement and accelerometer settings, and more to fit any tracking application
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INTEGRATION

Third-Party Integration	TCP Direct or HTTPS Webhook
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SECURITY

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

Manufacturer's Warranty	Two-year manufacturer's warranty
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