

DART3 BLE



Cellular LTE-M (Cat-M1) / NB-IoT

- High-performance, high-precision GPS tracking device
- Wire into power for real-time vehicle and fleet tracking
- Bluetooth® gateway to report on BLE tags and sensors, wireless Driver ID
- Flexible Input Monitoring - 1 x Ignition Digital Input, 3 x Digital Inputs, 1 x Analog Input, 1 x Switched Ground Digital Output, Switched Power Out
- Supports Accident Detection, Driver ID, Driver Behavior, Remote Immobilization
- Backup battery in case of loss of power or tampering



Real-Time Tracking



Inputs/Outputs



End-to-End Security



Highly Configurable



Future Proof Connectivity



White-Label & Integration Ready

Asset Visibility & Recovery

Monitor location and movement with the option to activate real-time tracking in case of loss or theft.

Accident Detection

Alerts for accidents and rollovers, activated by significant changes in velocity and orientation.

Remote Immobilization

Digital outputs can be connected to a relay to enable remote immobilization.

Real-Time Tracking

Device remains continuously connected while on the move for real-time vehicle tracking.

Driver ID

Configure Bluetooth®, RFID reader, iButton®, or Wiegand interface for Driver ID.

Flexible Input Monitoring

Interface with a range of devices and switches for seatbelt detection, duress buttons, lights, warning buzzers, and more.

BLE Tag & Sensor Monitoring

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

Driver Safety & Behavior

Monitor speeding, harsh acceleration, braking, cornering, and more.

Backup Battery

Features an internal backup battery in case of loss of power or tampering.

FLEET MANAGEMENT | VEHICLES | EQUIPMENT | LEASING | INSURANCE | COMPLIANCE

Connectivity

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| Cellular Module | Nordic nRF9160 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, 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 |
| Bluetooth® | Bluetooth 5.2 gateway reports nearby Bluetooth tags and sensors. |
| SIM Size and Access | Internal Micro 3FF SIM |

Location

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| GNSS Module | u-blox M10 |
| Constellations | Concurrent GPS, GLONASS, Galileo, BeiDou |
| 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. |
| 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

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| Input Voltage | 8-33V 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. |
| Intelligent Power Management | Device enters sleep mode when vehicle is inactive to prevent battery drain. |

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| Sleep Current | <1mA (no peripherals supplied and battery fully charged) |
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| Backup Battery | 300mAh LiPo internal backup battery pack. |
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Mechanics / Design

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| Dimensions | 99 x 76 x 19 mm (3.90 x 2.99 x 0.75 in) |
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| Housing | Non-branded housing is suitable for white labeling. |
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| Installation | 12 wire harness / 650mm length supplied as standard. OBDII and Cigarette Lighter harness options available for quick and easy (or temporary) installs. |
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| Temperature Range | Operating: -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. Recommended Storage: 10°C to 30°C, Humidity 30%. Store in a cool, dry place. |
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| Cellular Antenna | Internal |
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| GPS Antenna | Internal |
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| 3-Axis Accelerometer | 3-Axis accelerometer to detect movement, acceleration, high-g events, and more. |
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| Diagnostic LED | Diagnostic LED indicates operation status. |
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| Flash Memory | Store records if device is out of cellular coverage. View storage capacity here. |
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| Onboard Speed and Heading | The device continuously monitors speed and heading, allowing for over-speed alerts as well as updates on speed and heading changes. |
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| Onboard Temperature | Provides ambient temperature but may not be suitable for precise temperature logging purposes. |
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Interfaces

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| Analog Input | 1 x Analog Input 0-40V |
| Digital Inputs | 3 x Digital Inputs Configurable pull-up/down 0-48V DC Input Range Digital Input 3 pin shared with Driver ID. |
| Digital Outputs | 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. |
| Ignition | 1 x dedicated ignition Digital Input 0-48V DC 2.2V on threshold May be used as a digital input if not required. |
| Switched Power Out | 3-5Vout Max current 500mA |
| TTL Interface | Serial interface used to connect a Digital Matter RFID reader for Driver ID. |
| Wiegand | Wiegand Interface enables easy integration with a variety of RFID card types and readers. |
| 1-Wire® or iButton® | 1-Wire® or iButton® can be used to read Driver ID tags. Readers available to suit multiple card formats. |

Smarts

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| Accident and Rollover Detection | Configure accident and rollover alerts, triggered by extreme changes in the velocity and orientation of the vehicle or equipment. Up to 2 hours of second-by-second 'black box' data is stored to provide critical accident reconstruction data. |
| Driver ID Options | Bluetooth®, RFID reader, iButton®, or Wiegand interface for Driver ID, access control, and log booking. |
| Driver Safety and Behavior | Monitor speeding, harsh acceleration, braking, cornering, idle times and more to improve safety and prevent unnecessary wear on vehicles. |

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| Flexible Input Monitoring | Interface with a range of devices and switches for seatbelt detection, duress and panic buttons, lights, in-cab warning buzzers, and more. |
| Geofencing | The server can use device location to create geofences and alerts if an asset enters or leaves designated locations. Geofences can also be downloaded directly to the device for enhanced location-based actions and alerts. View storage capacity here. |
| 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. |
| Preventative Maintenance | Set reminders based on distance travelled 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. |
| Run Hour Monitoring | Calculate run hours and distance travelled (odometer) to understand and optimize asset utilization. |
| 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

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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 DM-Link provisioning tool. |

Integration

Third-Party Integration

TCP Direct or HTTPS Webhook

API

Command and configure the device via rich API functionality.

Security

Data Security

Military-grade AES-256 Encryption from device to Device Manager to protect the integrity and confidentiality of your data. Data forwarded to third-party systems is sent via HTTPS for end-to-end security.

Warranty

Manufacturer's Warranty

Two-year manufacturer's warranty. [Exclusions apply.](#)

Certifications

Please view our knowledge base for [regulatory and network certifications.](#)
