# MT
## 3050

# 1xRTT/HSDPA/GSM/GPRS/GPS Mobile Platform

Expanding the Novatel Wireless MT series of products for application service providers, system integrators, enterprises and insurers in the global Fleet Management and Usage-Based Insurance market verticals, the MT 3050 offers an innovative OBDII plug-and-play design, enhanced performance utilizing innovative antenna design and a disconnect alert feature using an in-device backup battery, and is available in GSM/GPRS, 1xRTT or HSDPA versions.

## Application Flexibility

The MT 3050 is a flexible telematics solution built for both Fleet Management where managers are charged with improving safety, increasing productivity and reducing costs, as well as for Insurance Telematics or Usage-Based Insurance (UBI) for Pay-As-You-Drive/Pay-How-You-Drive programs, which give the consumer, and even fleets, more control over their insurance premiums through driver behavior reporting, speed violation alerts, distance and duration traveled, and time of day reporting. Novatel Wireless has assembled the complex device and networking components required to build successful and profitable UBI programs, supporting market specific requirements and simplifying UBI program creation and large scale deployments.

## Simple Installation

The MT 3050 is easy to install - the device inserts into the OBDII port of a vehicle. Installation does not require taking a vehicle out of service and does not include the costs associated with a more permanent wired fitment to the vehicle. So no matter the application --- fleet management, usage-based insurance, teen tracking, or any other application – or the region of the world, the MT 3050 is the option for customers charged with lowering upfront telematics costs.

## Quick Deployment & Device Management

Coupled with N4A™ Communications and Management Software service delivery platform devices can be provisioned, monitored and reconfigured remotely, most anywhere in the world. Keeping you Connected to your Assets, Anywhere, Anytime.

## Device Benefits

• Industry leading small plug-and-play form factor for simple self-installation
• Flexible wireless network technology options (GPRS, CDMA, 1xRTT, and HSDPA versions)
• Advanced application customization through Smart Agent programmable rules and event engine
• Tri-axis advanced digital accelerometer for motion detection and driver behavior reporting
• "Disconnect Alert" for when the device has been removed from the vehicle's OBDII port
• No external SIM access for tamper resistance

**NOVATEL WIRELESS**

## 1xRTT/HSDPA/GSM/GPRS/GPS Mobile Platform

### Housing
- Dimensions: (L x W x H) 55 x 48.7 x 29.1 mm
- Weight with Battery: 45.1 g (1.6 oz)
- Weight without Battery: 36.8 g (1.3 oz)
- Rugged textured plastic enclosure UL94-V$_0$ fire rated

### Radio Technology
- Cellular Technology: CDMA/1xRTT - 800/1900 MHz
  GSM/GPRS - 850/900/1800/1900 MHz

### Packet Data
**GSM/GPRS**
- Mode: Class B, Multislot 8
- Protocol: GSM/GPRS Rel 97
- Coding Schemes: CS1-CS$
- Packet Channel: PBCCH/PCCCH

**CDMA/1xRTT**
- Protocol: IS-95, IS-2000
- Packet Channel: FCH/SCCH/DCCH/SCH

### Functionality
**SMS**
- GSM SMS: Text, PDU, MO/MT, Cell Broadcast
- CDMA SMS: Text, MO/MT

**GPS**
- GPS Protocols: NMEA, Binary
- Buffered GPS Message Feature: Yes

### Standard Features
- Excessive Engine Speed (RPM): Yes
- Vehicle Speed/Speed Alert: Yes - OBDII/GPS
- Virtual Odometer/Distance Reporting: Yes
- Idle Time Reporting: Yes
- Vehicle Battery Voltage: Yes - Ignition & Movement Detection
- Check Engine Light (MIL Alert): Yes
- Low Fuel Alert: Yes
- Motion Alert/Tow: Yes
- Rapid Acceleration: Yes
- Harsh Braking: Yes
- Crash Detection: Yes - Configurable Thresholds
- FOTA Enabled: Yes
- Timed Reporting: Yes
- Alarm/Event Reporting: Yes
- Status Change Reports: Yes
- Geo-Fencing: Yes
- Polygon Geo-Fencing (Optional): Yes
- Fuel Economy: Coming Soon

### On-Board Diagnostics
- Engine Interface: J1962 Compliant
- Protocols Supported: J1850 PWM, J1850 VPW, ISO-9141-2, ISO-14230 KWP2000, and ISO-15765 CAN

### Interface / I/O
- SIM Access: Internal
- Cellular/GPS Antenna: Internal
- LEDs: OBD (Red), Cellular (Green), GPS (Blue)

### Interface
- Host Protocols: AT commands, UDP API, FOTA
- Internal Protocols: UDP API, TCP API
- API Control/Status: AT commands, UDP API, TCP API, AT Commands Over SMS

### Environment
- Operating: -20ºC to 60ºC
- Storage: Non battery version: -40ºC to 85ºC
- Humidity: Up to 95% Non-Condensing
- Vibration: In accordance with SAE J1211

### Battery
- Rechargeable Lithium-Ion
- Battery recharging range is 0 to +45ºC (Internal Battery Temperature)

### Power
- DC Voltage: 9-16 VDC
- Cellular Operating Power (Typical) @ 12 VDC: Avg /Peak (mA)
- GSM 850 1TX/RX: Yes
- GSM 900 1TX/RX: Yes
- GSM 1800 1TX/RX: Yes
- GSM 1900 1TX/RX: Yes
- CDMA BC0 - 800 MHz: Yes
- CDMA BC1 - 1900 MHz: Yes
- Idle (GPS On): ≤80 mA
- Idle (GPS Off): ≤25 mA
- Ultra Low Power Mode: ≤8 mA

### Certifications
- FCC: Parts 15, 22, 24
- PTCRB: Version 5.6
- CE: Yes (Pending)
- GCF: Yes (Pending)
- eMark: Yes (Pending)
- Industry Canada: RSS-210, 132, 133
- RoHS  Compliant: Yes
- Carrier Certifications: Verizon, Sprint

### Part Numbers
- GSM2378-00 (WW)
- RTT2211-00 (North America)

**NOVATEL WIRELESS**

ISO 9001:2000 Certified