

## DataLogger 815 - Low Profile Telematics Device with Bluetooth Connectivity

Danlaw's DataLogger 815 vehicle telematics solution is a one-of-a-kind, Bluetooth communication device that enables vehicle data communication and connectivity via a connected smart phone. It uses Danlaw's industry leading connectivity to communicate with OBD-equipped vehicles (1996 to present).

### Benefits

- Cost Effective
- Bluetooth Low Energy (BLE)
- GPS/GLONASS for position accuracy

### Features

- OBD-II data collection
- Industry leading vehicle compatibility
- Self-Installed – plug-n-go via OBD-II port
- Self-Contained – no external antennas
- Ignition ON/OFF detection
- Bluetooth 4.1
- Cost effective data transmission
- 6-Axis Accelerometer/ Gyroscope - 13-bit sampling
- Self-Normalizing Accelerometer
- 72 Channel GPS/GLONASS
- Over-the-air re-flash (OTA)
- Enhanced Anti-Tampering
- Real-time Event Capture
- Certifications – Bluetooth, CE, e-Mark, RoHS

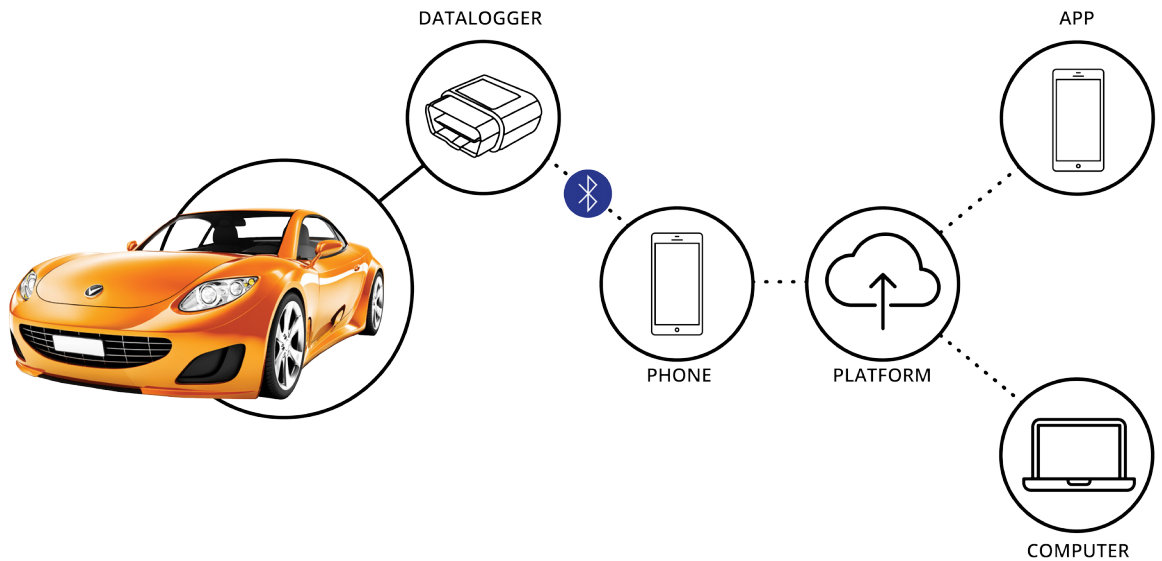
### Markets

- Insurance (UBI, PAYD, PHYD)
- Teen Tracking
- Loyalty Programs
- Vehicle Service and Repair Shops
- Fleet Tracking
- Mobile Resource Management (MRM)
- Roadside Assistance
- Remote Vehicle Diagnostics
- Government and Military
- Connected Vehicle Research
- Custom Applications



### BT/BLE/OBD/GNSS

The DataLogger 815 device enables direct connectivity between vehicles, Bluetooth-enabled phones, cloud-based servers, and backend servers.



## DataLogger 815

### Physical Characteristics

Dimensions	Compact (L = 34 mm, W = 41 mm, H = 18 mm)	
Weight	16 g	
Environment	IP64	
Temperature Range	-40°C to +85°C (operating)	-40°C to +85°C (storage)
Humidity	0% to 95% (non-condensing) (SAE J1455)	
Shock, Vibration, and Heat	SAE J1455, SAE J1211	

### Certifications

Carrier Certifications	FCC Certified
CE Certifications	CE Certified
e-Mark Certifications	e-Mark E-13
Environmental Certifications	RoHS Compliant

### Electrical Characteristics

Supply Voltage	12V (min. 9V to max. 18V)
Voltage Protection	Over and Reverse Voltage, Load Dump (J1113/11), Short Circuit, Transients (ISO 167502), ESD (J1113/13)

### Vehicle Communication

Protocol Support	GMLAN, FNOS, ISO 15765, ISO-9141-2, J1850 PMW, J1850 VPW, KWP-2000, ISO-14230-4
Protocol Detection	Automatic vehicle protocol recognition
Ignition ON Detect	Automatic wake-up from sleep mode
Ignition OFF Detect	Automatic sleep mode on IGN OFF (saves power)

### Wireless

Jamming Detection	
Bluetooth	Bluetooth 4.1, BLE, Dual-Mode support, multi-phone pairing, Secure Simple Pairing (SSP), Serial Port Profile (SPP)
Antenna	Internal built-in Bluetooth
OTA	Bluetooth update for configuration and device firmware

### GPS

Receiver	72-channel GPS receiver, GLONASS, Galileo Tracking: -167 dBm
Antenna	Internal built-in
Cold Start	<26 seconds TTFF Sensitivity -148 dBm
Hot Start	<2 second Sensitivity -148 dBm
Data Acquisition Rate	Typical 1 Hz
Accuracy	Position 2 m CEP
Anti-jamming	Integrated GPS anti-jamming

### Accelerometer

6-Axis	X, Y, Z output Accelerometer, yaw pitch roll output Gyroscope
Output Resolution	+/- 2, 4, 8, 16 g (13 bit sampling max.)
Auto-Normalization	Self-Calibrating, Auto-Normalization of the data to the vehicle's direction of motion

### Misc.

Installation	Self-Installed (10 sec or less)
Data Collection Interval	Configurable (1 Hz max.) Collects and stores trip data without mobile phone

## Contact Us

### Danlaw, Inc.

41131 Vincent Court  
 Novi, Michigan 48375 USA  
 Tel: 1 (248) 476-5571  
 Fax: 1 (248) 471-4485  
[sales@danlawinc.com](mailto:sales@danlawinc.com)

This document is provided for information purposes only and the contents hereof are subject to change without notice.

Danlaw reserves all rights to this document and the information contained herein. No warranty or guarantee of any kind, either express or implied, is made in relation to the accuracy, reliability fitness for a particular purpose or content of this document.