

DataLogger 910 - Ultra Low Profile Telematics Device with Bluetooth-WiFi

Danlaw's DataLogger 910 vehicle telematics solution is a one-of-a-kind, BLE-WiFi communication device that enables vehicle data communication and connectivity via a connected smart phone or WiFi router. It uses Danlaw's industry leading OBD connectivity to communicate with CAN-based vehicles (2005 to present). The DataLogger 910's sleek, ultra low profile allows the OBD port cover to be closed with the device installed and minimizes ergonomic interference.

Benefits

- Cost Effective
- Bluetooth Low Energy (BLE)
- WiFi 802.11 b/g/n
- 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
- 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

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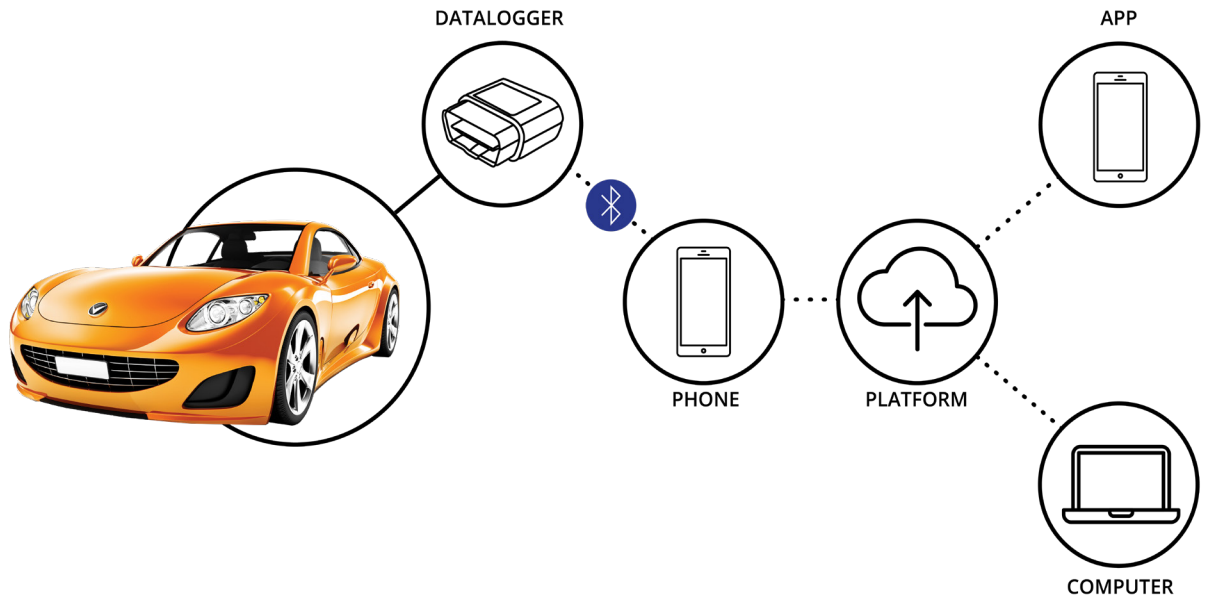
Markets

- 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
- Consumer
- Custom Applications



BT/BLE/WiFi/OBD/GNSS

The DataLogger 910 device enables direct connectivity between vehicles, Bluetooth/WiFi-enabled phones, cloud-based servers, and backend servers.



DataLogger 910

Physical Characteristics

Dimensions	Compact (L = 17 mm, W = 41 mm, H = 18 mm)	
Weight	15 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

Regulatory Certifications	FCC Certified
WiFi Certifications	Pending
CE Certifications	Pending
e-Mark Certifications	Pending
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	CAN Only
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

Bluetooth	Qualified Bluetooth 4.0, BLE, Dual-Mode support, multi-phone pairing, Secure Simple Pairing (SSP), Serial Port Profile (SPP)
WiFi	802.11 b,g,n
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, roll, pitch, yaw 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

Miscellaneous

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

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