DATASHEET



Enhancements

Smaller Size – ultra-compact

Integrated Bluetooth Connectivity

Hybrid and Electric Vehicle Support

Enhanced 3-Axis Accelerometer

Assisted A-GPS – No cost autonomous

Cost Effective

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

Dual Mode Wireless – GSM and Bluetooth

Cost effective data transmission

3-Axis Accelerometer - 13-bit sampling

Self-Normalizing Accelerometer

50 Channel GPS with A-GPS support

Over-the-air re-flash (FOTA)

Enhanced Anti-Tampering

Real-time Event Capture and Transmission

Certifications – FCC, PTCRB, AT&T, RoHS

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DataLogger 7 Series - GEN 2 Vehicle Telematics

Danlaw's DataLogger 7-Series vehicle telematics solution is a one-of-a-kind, hybrid wireless communication device that enables data communication and connectivity via GSM and Bluetooth wireless connections. Danlaw's hybrid communication approach provides wireless data transmission by using the driver's smartphone or the DataLogger's dedicated GSM/GPRS wireless data connections.

Hybrid Bluetooth-GSM Communication Model





The DL 7-series telematics platform represents Danlaw's ongoing commitment to improving technology by reducing device size and cost, without compromising the features that insurance and fleet telematics industries require.

Danlaw's goal is to provide its clients with the industry's best automotive grade, self-installed OBD-II wireless communication device for monitoring, logging, and transmitting vehicle network messages and position data. Many of Danlaw's insurance and fleet telematics clients require a Quality-of-Service that ensures the consistent and timely delivery of vehicle and position information to their backend servers. The DL 7-series delivers on this need.

The DL 7-series provides the nation's largest fleet and insurance companies with the most reliable connection to their vehicles, while offering the most cost effective connection to their data.

Markets

Insurance (UBI, PAYD, PHYD)

Teen Tracking

Loyalty Programs

Fleet Tracking

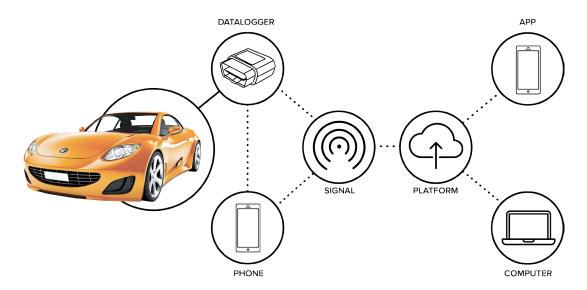
Mobile Resource Management (MRM)

Roadside Assistance

Vehicle Diagnostics

Government and Military

Custom Applications



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DataLogger 7 Series - GEN 2

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Physical Characteristics	
Dimensions	Ultra Compact (L = 43 mm, W = 46 mm, H = 23 mm)
Weight	31.2 g (1.1 oz)
Environment	IP64
Temperature Range	-40°C to +85°C (operating) -40°C to +85°C (storage)
Humidity Shock, Vibration & Heat	0% to 95% (non-condensing) (SAE J1455) SAE J1455 & SAE J1211
Certifications	3AE J1433 & 3AE J1211
Carrier Certifications Environmental Certifications	FCC, PTCRB, and AT&T Certified
Electrical Characteristics	RoHS Compliant
	12V (min. 9V to max. 24V)
Supply Voltage	<3 mA Average (during Sleep mode)
Current Consumption	<100 mA @ 12VDC (Data Upload)
Voltage Protection	Over and Reverse Voltage, Load Dump (J1113/11), Short Circuit, Transients (ISO 167502), ESD (J1113/13)
Current Protection	Internal protection (2 amps)
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	
Cellular GSM/GPRS	Quad-Band: 850/900/1800/1900 MHz, GPRS class 10
Output Power	Class 4 (2W) @ 850/900 MHz Class 1 (1W) @ 1800/1900 MHz
RF Sensitivity	107 dBm typical @ 850/900 MHz 106 dBm typical @ 1800/1900 MHz
GPRS	Class 10
COMM	TCP/IP, UDP, & FTP
SMS	Point-to-Point MO & MT SMS cell broadcast
Jamming Detection	GSM Jamming Detection
Bluetooth	Bluetooth 2.1 +EDR, multi-phone pairing, Secure Simple Pairing (SSP), Serial Port Profile (SPP)
Antenna	Internal built-in
FOTA	Firmware-Over-The-Air update for configuration and complete device firmware
GPS	
Receiver	50-channel GPS receiver, SBAS, WAAS, EGNOS, MSAS, Tracking: -162 dBm
Antenna	Internal built-in
Cold Start	<27 seconds TTFF Sensitivity -147 dBm
Hot Start	<1 second Sensitivity -156 dBm
Data Acquisition Rate	4 Hz (Typical 1 Hz)
Accuracy	Position 2.5 m CEP, SBAS 2.0 m CEP
A GPS	AssistNow™ Autonomous (no data usage cost)
Anti-Jamming	Integrated GPS anti-jamming
Accelerometer	
3-Axis	X, Y, Z output
Output Resolution	+/- 2, 4, 8, 16 g (13 bit sampling max.) Self-Calibrating, Auto-Normalization of the data to the vehicle's
Auto-Normalization	direction of motion
Misc.	

Self-Installed (10 sec or less)

Configurable (1 Hz max.)

Contact Us

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Installation

Data Collection Interval