DANLAW®
AUTOMOTIVE MADE SMART

Benefits

Same small size as 7 Series

3G UMTS/HSPA for AT&T and T-Mobile

Integrated Dual Mode Bluetooth

Bluetooth Low Energy (BLE) Support

GPS/GLONASS for position accuracy

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

Cost effective data transmission

3-Axis Accelerometer - 13-bit sampling

Self-Normalizing Accelerometer

56 Channel GPS/GLONASS
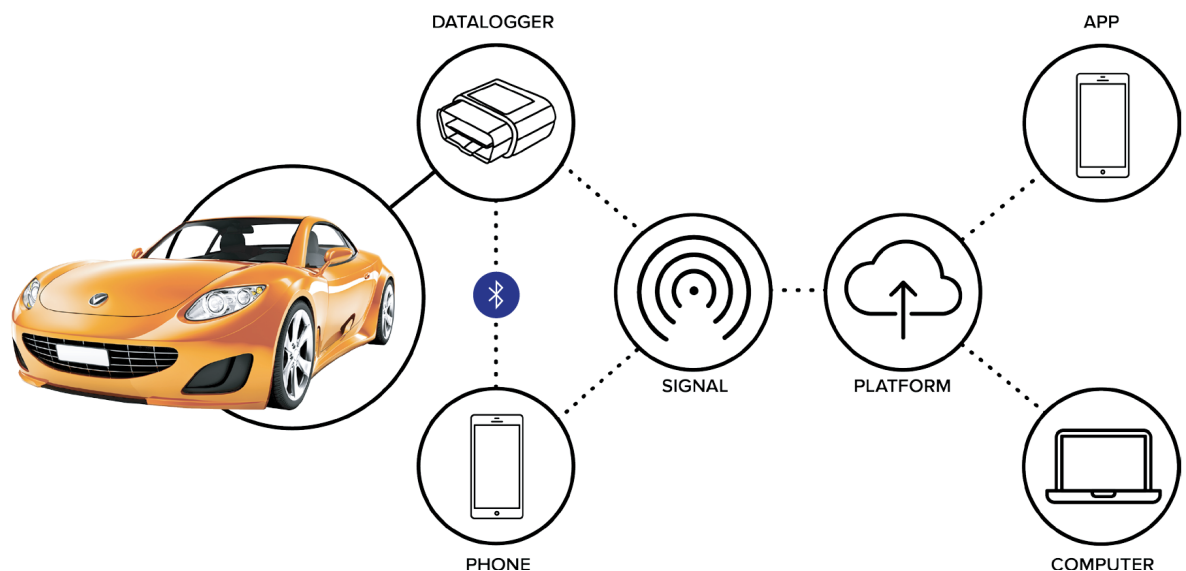
Over-the-air re-flash (FOTA)

Enhanced Anti-Tampering

Real-time Event Capture and Transmission

Certifications – FCC, PTCRB, AT&T, RoHS

DataLogger 86x Series – GEN 2.5 Vehicle Telematics (DL 862/DL 864)

Danlaw's DataLogger 86x Series vehicle telematics solution is a hybrid wireless communication device that enables data communication and connectivity via 3G UMTS/HSPA/2G GSM/GPRS or BLE wireless connections. Danlaw's hybrid communication approach provides wireless data transmission by using the driver's smartphone or the DataLogger's dedicated 3G UMTS with 2GSM/GPRS fallback.

Markets

Insurance (UBI, PAYD, PHYD)

Teen Tracking

Loyalty Programs

Fleet Tracking

Mobile Resource Management (MRM)

Roadside Assistance

Remote Vehicle Diagnostics

Government and Military

Connected Vehicle Research

Custom Applications

Hybrid Bluetooth - Cellular Communication Model

The DataLogger 86x devices enable direct connectivity between vehicles, Bluetooth enabled phones and cloud-based and backend servers.

DATALOGGER — APP — SIGNAL — PLATFORM — PHONE — COMPUTER

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Physical Characteristics

Dimensions	Ultra Compact (L = 43 mm, W = 46 mm, H = 23 mm)
Weight	32.1 g (1.13 oz)
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 and PTCRB 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)
Current Consumption	<6 mA Average (sleep mode) <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 on IGN ON
Ignition OFF Detect	Automatic sleep mode on IGN OFF (saves power)

GPS

Receiver	56-channel GPS receiver and GLONASS Tracking: -162 dBm
Antenna	Internal built-in
Cold Start	<29 seconds TTFF Sensitivity -148 dBm
Hot Start	<1 second Sensitivity -148 dBm
Data Acquisition Rate	Typical 1 Hz
Accuracy	Position 2.5 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 (200 Hz - 13 bit max sampling)
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.)

Wireless

Output Power	Class 4 (33 dBm) 2G bands Class 3 (24 dBm) 3G bands
Module RF Sensitivity	109 dBm typical @ 800/850/900 MHz 109 dBm typical @ 1800/1900/2100 MHz
COMM	TCP/IP, UDP, FTP, HTTP
SMS	Point-to-Point MO and MT SMS cell broadcast
Jamming Detection	Integrated cellular jamming detection
Bluetooth	Bluetooth 4.0, BLE, Dual-Mode support, multi-phone pairing, Secure Simple Pairing (SSP), Serial Port Profile (SPP)
Antenna	Internal built-in Bluetooth and Cellular
FOTA	Firmware-Over-The-Air update for configuration and device firmware

Wireless Support

Wireless Support	DL862	DL864
Cellular	2G Dual-band 850, 1900 3G Dual-band 850, 1900	2G Quad-band 850, 900,1800, 1900 3G Penta-band 800, 850, 900,1900, 2100
Wireless Carrier Support	North America	Worldwide

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