DATASHEET



Benefits

Integrated Dual Mode Bluetooth

Bluetooth Low Energy (BLE)

GPS Plus GLONASS For Accuracy

Optimized For 2G GSM/GPRS

Cost Effective

Features

OBD-II data collection

Industry leading vehicle compatibility

AES-128 Data Encryption

Self-Installed – plug-n-go

Self-Contained – all internal antennas

Ignition ON/OFF detection

Quad Band Wireless – GSM/ GPRS and Bluetooth

Free Data Transmission through BLE connected mobile phones

Self-Normalizing 3-Axis Accelerometer

56 Channel GNSS

Over-The-Air Re-Flash (FOTA)

Enhanced Anti-Tampering

Real-Time Event Capture and Transmission

Certifications – CE, FCC, PTCRB, RoHS, E-mark

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DataLogger 880 - Vehicle Telematics Device

Danlaw's DataLogger 880 vehicle telematics solution is a one-of-a-kind, hybrid wireless communication device. The DataLogger device is optimized for data communication and connectivity via 2G GSM/GPRS and BLE wireless connections. Danlaw's hybrid communication approach provides wireless data transmission by using the driver's BLE-enabled smartphone and/or the DL 880's dedicated 2G GSM/GPRS wireless data connections.

Markets

Insurance (UBI, PAYD, PHYD)

Teen Tracking

Loyalty Programs

Fleet Tracking

Mobile Resource Management (MRM)

Roadside Assistance

Remote Vehicle Diagnostics

Government and Military

Road Tolling

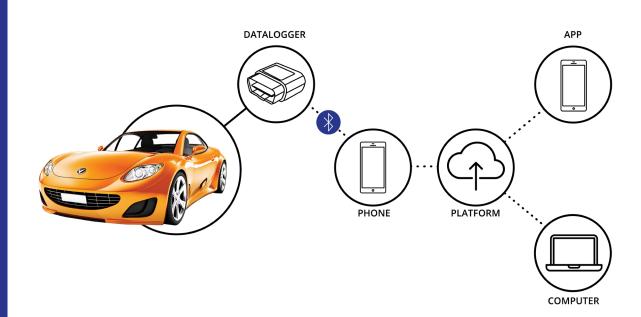
Connected Vehicle Research

Custom Applications



Hybrid Bluetooth - 2G Wireless Communication Model

The DataLogger 880 device enables direct connectivity between vehicles, Bluetooth-enabled phones, cloud-based servers, and backend servers.



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DataLogger 880

DataLogger 880	
Physical Characteristics	
Dimensions Weight Environment Temperature Range Humidity Shock, Vibration, and Heat	Ultra Compact (L = 43 mm, W = 46 mm, H = 23 mm) 32.1 g (1.13 oz) IP64 -40°C to +85°C (operating) -40°C to +85°C (storage) 0% to 95% (non-condensing) (SAE J1455) SAE J1455, SAE J1211
Certifications	5. (E.) 1. (1.50) 5. (E.) 1. (E.)
Carrier Certifications CE Certifications e-Mark Certifications Environmental Certifications Electrical Characteristics	FCC and PTCRB Certified CE Certified e-Mark E-13 RoHS Compliant
Supply Voltage Current Consumption Voltage Protection	12V (min. 9V to max. 18V) <4 mA Average (sleep mode) <100 mA @ 12VDC (data upload) 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 Protocol Detection Ignition ON Detect Ignition OFF Detect	GMLAN, FNOS, ISO-15765, ISO-9141-2, J1850 PMW, J1850 VPW, KWP-2000, ISO-14230-4 Automatic vehicle protocol recognition Automatic wake-up from sleep mode on IGN ON Automatic sleep mode on IGN OFF (saves power)
Wireless	
Cellular Wireless Carrier Support Output Power	Quad-Band: 850/900/1800/1900 MHz, GPRS class 10 Worldwide Class 4 (32 dBm) @ 850/900 MHz
Module RF Sensitivity	Class 1 (29 dBm) @ 1800/1900 MHz 109 dBm typical @ 850/900 MHz 109 dBm typical @ 1800/1900 MHz
COMM SMS Jamming Detection	TCP/IP, UDP, FTP, HTTP Point-to-Point MO and MT SMS cell broadcast Integrated cellular jamming detection
Bluetooth Antenna	Bluetooth 4.0, BLE, Dual-Mode support, multi-phone pairing, Secure Simple Pairing (SSP), Serial Port Profile (SPP) Internal built-in Bluetooth and Cellular
FOTA	Firmware-Over-The-Air update for configuration and device firmware
GPS	
Receiver Antenna Cold Start Hot Start Data Acquisition Rate Accuracy A GPS Anti-Jamming	56-channel GPS receiver and GLONASS Tracking: -162 dBm Internal built-in <29 seconds TTFF Sensitivity -148 dBm <1 second Sensitivity -148 dBm Typical 1 Hz Position 2.5 m CEP AssistNow™ Autonomous (no data usage cost) Integrated GPS anti-jamming
Accelerometer	integrated of 3 anti-janining
3-Axis Output Resolution	X, Y, Z output +/- 2, 4, 8, 16 g (200 Hz - 13 bit max sampling) Self Calibrating Auto Normalization of the data to the vehicle's

Self-Calibrating, Auto-Normalization of the data to the vehicle's

direction of motion

Self-Installed (10 sec or less)

Configurable (1 Hz max.)

Contact Us

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Auto-Normalization

Data Collection Interval

MiscellaneousInstallation