

# Influx

REBEL LT



Rebel LT Data Loggers



P/N: INF2101

## Typical Applications



- Vehicle testing with OBD data and additional instrumentation (Analogue, digital, temperature etc.).



- R&D competitor benchmarking tests (reverse engineering) via J1939 and OBD (UDS) data.



- Vehicle engineering with CCP/xCP on CAN.



- CAN bus data logger applications

## Rebel LT Data Loggers - A complete solution

Need to collect CAN data? The Influx Rebel Lite (LT) is a cost effective CAN bus data logging solution for you. The **Rebel LT** supports advanced functionality such as CAN monitoring, OBD and UDS data logging. The **Rebel LT** series key advantages include, USB galvanic isolation to protect connected devices, easy configuration via Dialog software, expandability to GNSS and 4G LTE CAT 1. Our **Rebel LT** data loggers are suitable to be left on vehicles unattended with the critical power saving functions of the 'Power down mode' and the ability to 'WakeOnCAN'. Data is stored on the externally assessable expandable SD card slot. In addition these data loggers have 4 high speed analogue input channels and 3 digital I/O channels as standard.

### Key features

- 2x CAN buses.
- 1x K-Line (request when ordering).
- 3x digital I/O channels.
- 4x analogue inputs (each channel can be calibrated independently).
- Galvanic isolation. (USB, enclosure)
- SDHC card data storage (Up to 64GByte).
- Low power consumption in sleep mode and WakeOnCAN or wake up on signal feature.
- Stackable with K-Series instrumentation.

### Options

- Internal GNSS module (socket for external antenna).
- Internal 4G LTE CAT 1 module.
- Larger capacity data storage SDHC cards available. (up to 64GByte).
- Dialog Standard is required for data analysis/ live data/GPS maps.
- Dialog Plus is required for xCP/CCP or to connect to StreamLog.
- Extension cable to connect directly to the vehicle OBD Port. (9 Way D Sub to OBD).
- Rebel Dash display for real time CAN messages and signals display.



## Key Product Functions

Function	Description
Supported Protocols	<p>OBD (CAN) ISO15765/ISO14229 (UDS)            CCP, xCPOnCAN            CAN monitoring (raw CAN messages or signals via CAN DBC)            J1939</p>
CAN functions	<p>Output CAN signals (applications include display units)            Create user defined CAN messages for periodic transmission</p>
Data storage format	FAT32 (PC readable)
Data logger configuration	Configuration via USB, 4G LTE CAT 1 and SD card
Trigger Condition	<p>Up to 20 configurable conditions            (&gt;, &lt;, =, increment, decrement or on-change)</p>
Trlgger Action	<p>Up to 20 configurable triggers            Functions include start or stop, sample one-shot data, sample DTC, read OBD data.            Configurable pre and post trigger times            Configurable LED functions</p>
Wake up time	<p>Wake up from normal sleep mode logging starts within 20mSec            Wake up from power down mode, logging starts &lt; 5 secs</p>
Data Formats	<p>Large quantities of recorded data can be conveniently converted to MDF, MDF4,            MAT (Matlab), nCode, CSV by batch processing.</p>

Function	Description	Function	Description
Power supply	4.7V to 36V DC (12V typical) internally fused with reverse protection		Analogue Inputs
Power consumption	Normal operation approx. 250mA to 350mA @12V Sleep mode approx. 80mA @12V Power down standby mode < 2mA @12V	Number of channels	4 bipolar single-ended inputs
		Range	±10V
		Resolution (ADC)	12 bits
		Max sampling rate	1 KHz
Wake up	WakeOnCAN function	Input impedance	>50K Ohms
PC interfaces	Isolated USB2.0 (Type B) – can be powered by USB	Min/Max applied voltage	±40V
			Digital Input / Output
CAN interfaces	2x CAN 2.0B Max 1MBit/s	Number of channels	3 unipolar single-ended inputs/outputs
LED	9x LEDs	Input switch thresholds	Low < 2V, High > 2.5V (up to 36V)
Enclosure	Dimension (LxHxW): 115x26x105mm	Output Drive details	Collector-emitter voltage 36V max Collector current (DC) 50mA max. Saturation voltage <0.6V
	Weight 400g		
	Stackable ABS	Min-Max applied voltage	-0.5V to 36V
Environmental	-40degC to +80degC	Optional	GNSS
	Humidity max 90%		4G LTE CAT 1
Data storage capability	Removable SDHC max 64GByte		

## **Influx Technology Ltd**



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