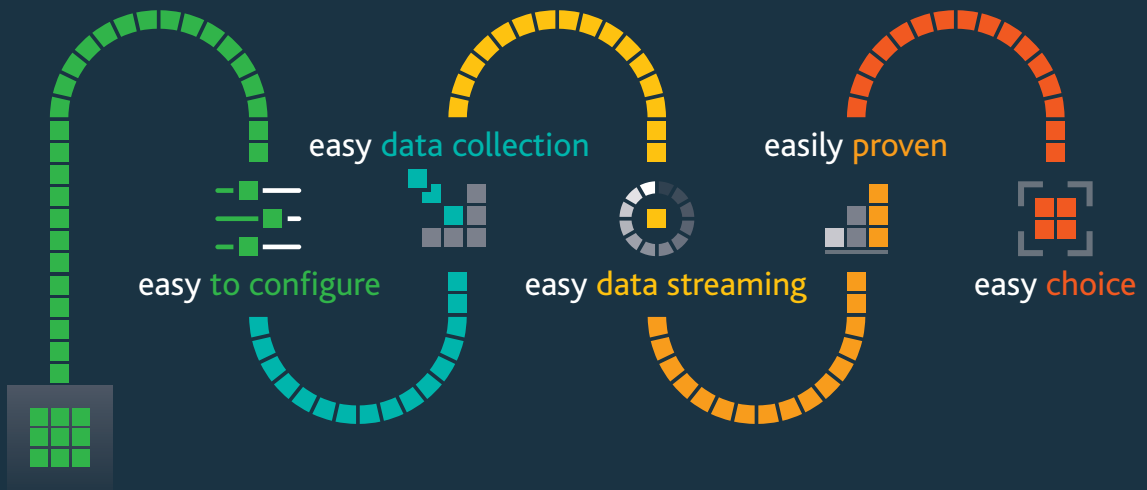


# Influx

REBEL LT



# Out the box dataloggers



connect, simply configure and go



# Rebel Data Loggers - A complete solution

The Rebel range offers a complete data logging solution for vehicle network and sensor data.

- **Robust and reliable** collection of data from several sources, without user interaction, for prolonged periods
- **Easy setup** with no need to write complex scripts
- **Configuration software provided** for set up and analysis
- Log data **in minutes**
- No fans, hard drives or other mechanical rotating components
- No operating system = **no long boot up times**
- **Very low current consumption** in power down mode
- **WakeOnCAN** supported
- Digital input/output channels
- K-Line
- LAN

Rebel data loggers are compact with optional add-ons such as:

- H-Box or K-Box for thermocouples and analog instrumentation
- Rebel Dash display
- Logging on up to 5 CAN BUS channels
- LIN
- FlexRay
- Wifi
- 3G GPRS
- 20Hz GPS
- 1KHz XYZ accelerometer

# Influx

## REBEL LT

The most powerful fleet data logger available



The Rebel Lite (LT) is a cost effective CAN bus, K-Line data logging solution, available with GPS and 3G GPRS. In addition these data loggers have 4 high speed analog input channels and 4 digital inputs as standard. The Rebel LT supports advanced functionality such as CAN monitoring, CCP, xCP and UDS data logging.

### Features:

- 2x CAN buses
- 1x K-Line
- 4x analog inputs
- 4x digital Input/output channels
- SDHC card logging up to 32GB
- ABS enclosure

- Supports J1939 and OBD logging
- Connects to Module Analyser for on-line CAN Analyser functionality
- Can be stacked with the Influx K-Box for sensors and thermocouples

### Options:

- Internal 10 Hz GPS with socket for external antenna
- 1kHz internal XYZ accelerometer +/-16G max
- 3G Modem
- K-Box
- Rebel Dash display

## Typical Applications

### Vehicle Test Drives – OBD mode

As an OBD logger, most of the data you require can be acquired without the need for additional instrumentation. If you are running vehicle tests and need engine data then the Rebel data logger is your solution.

### OEM engineering data acquisition – CCP/xCP

The Rebel family of data loggers are ideal for OEM vehicle and powertrain calibration engineering. The high speed sampling rates acquire internal ECU parameters. Advanced protocols support CCP/xCP and UDS fast data acquisition making the Rebel an ideal tool to support engineering projects.

### CAN bus data logger applications

The Rebel data loggers can be used to collect raw CAN messages in a “listen only” mode.

### Customer problem investigation

Due to the compact size and robustness of the Rebel data loggers they are uniquely suited for problem investigations in the field. The Rebel data logger can be confidently and discretely fitted to customer vehicles to investigate issues.



DIALOG is our data logger configuration and data analysis tool. Critical to operating the Rebel data loggers, it provides incredible flexibility. Simple and intuitive, it's ready for setting up the most complex data logging tasks in just minutes - your data in an instant.



A 5 in 1, easy to use CAN bus analyser with the following features:

- Automotive OBD ISO15765 Scan tool and J1939 functions
- Automotive UDS support ISO14229
- Integrated ODX/MDX editor
- CAN and LIN BUS monitoring via DBC/LDF files
- Data acquisition and logging
- Reverse Engineering

Typically CAN network analysis tools require you to use a separate application for automotive functions such as J1939, UDS diagnostics, module reprogramming and CAN monitoring functions. Module Analyser brings these features together in a single environment.

# Product Specification

Function	Description
Supported Protocols	Keyword 2000 (Kline and CAN) ISO15765/ISO14229 (UDS) CCP,xCP CAN monitoring (raw CAN signals or via CAN DBC) J1939
CAN functions	Output CAN signals (applications include driving display units) Output/receive user defined CAN messages (create additional diagnostic commands)
Data storage format	FAT32 (pc readable)
Data logger configuration	configuration via USB, WiFi, 3G and SD card
Data formats	Up to 40 configurable triggers,
Trigger Conditions	Up to 40 configurable conditions (>,< ,=,increment,decrement or on-change)
Trigger Actions	Up to 40 configurable triggers, Functions include start or stop,read one-shot data, read DTC,read OBD data, Configurable pre and post trigger times, Configurable LED and buzzer indication,
Wake up time	Normal logging starts within approx 10 seconds (depending on configuration) Wake up from sleep, logging starts within approx 20mSec.

# Technical Data

Technical Data	Rebel LT
Power supply	4.7V to 36V DC
Power consumption	Normal operation approx 300mA at 12V Sleep mode approx 80mA at 12V Power down stand by mode approx 3mA at 12V WakeOnCAN
PC interfaces	USB2.0 Type B
CAN interfaces	2x CAN 2.0B max 1MBit/s ■ Wakeup on CAN
Enclosure	Dimension (L115xH46xW105) ■ Weight 400g ■ IP20 ■ ABS
Environmental	■ '-40degC to +85degC ■ Humidity max 90%
Other interfaces	K-Line
Data storage capability	1x SDHC max 32GByte
	<b>Analog Inputs</b>
Number of channels	4 bipolar single-ended inputs
Range	+/- 10V
Resolution	12 bits
Max Sampling Rate	1KHz
Input Impedance	>50k Ohms
Input Protection	+/- 40V
	<b>Digital Input/Output</b>
Number of channels	4 unipolar single-ended inputs/outputs
Input Switching Thresholds	Low < 2V, High > 2.5V (up to 36V)
Output Drive Specification	Collector-emitter voltage 36V max Collector current (DC) 100mA max Saturation voltage (OK on) < 0.6V
Min-Max Applied Voltage	-0.6 to 36V
	<b>Options</b>
Fleet Management	Connection to StreamLog enables remote event monitoring, remote reconfiguration and key data streaming.
Integrated Modem	3G with external antenna
Internal GPS (option)	Internal GPS with external antenna (20Hz refresh rate) Position accuracy < 5 mtrs
Sensors	xyz accelerometer 1KHz sampling rate (up to +/- 16G)

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