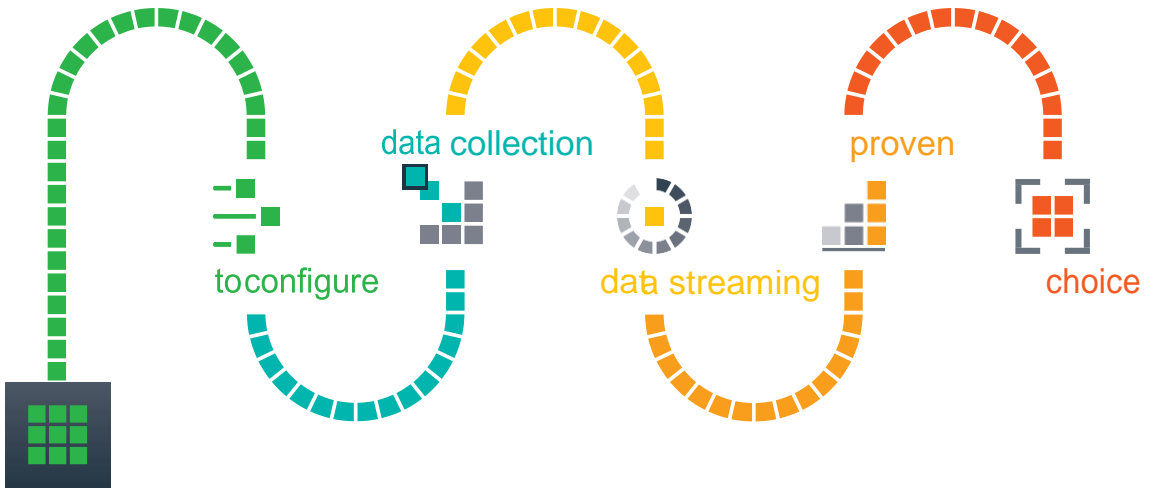


# Influx

REBEL LT



# dataloggers





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 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 upto 128 GB
- ABS enclosure

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

#### Options:

- Internal 18 Hz u-blox GPS with antenna
- 1kHz internal XYZ accelerometer +/-16G max
- u-blox 3G GPRS modem
- K-Box
- Rebel Dash display

## Typical Applications

### Vehicle Test - OBD mode

The Rebel data logger can collect OBD data including PIDs and DTCs on cars and J1939 data on heavy duty vehicles.

The Rebel has a real time clock to time stamp data and a range of sleep modes to prevent power drain on vehicles.

### OEM data acquisition - CCP/xCP on FlexRay and CAN

The Rebel loggers with the Dialog software support CCP/XCP and UDS fast data acquisition. The Rebel CT FlexRay provides a powerful solution to expand into FlexRay data logging with optional instrumentation.

### CAN bus data logger applications

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

### Customer vehicle investigations

The compact size, reliability, remote logging and power down modes mean the Rebel data loggers can be discretely fitted to customer vehicles.



DiaLog is our data logger configuration and data analysis tool. Dialog supports A2L, CCP, xCP, ODX and GPS mapping. It's intuitive interface ensures easy set up of triggers, remote logging and data merging with export functions. Dialog also includes a powerful batch processing facility to compress and export large data files to other formats.



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

CAN network analysis tools often 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
Wake up time	Wake up from normal sleep mode logging starts within 20mSec Wake up from power down mode, logging starts < 5 secs

# 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
Enclosure	Dimension (L115xH46xW105) <ul style="list-style-type: none"> <li>■ Weight 400g ■ IP20 ■ ABS</li> </ul>
Environmental	<ul style="list-style-type: none"> <li>■ -40degC to +85degC ■ Humidity max 90%</li> </ul>
Other interfaces	K-Line
Data storage capability	1x SDHC max 64GByte
<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	u-blox 3G GPRS modem with external antenna
Internal GPS (option)	Internal GPS with external antenna (18Hz refresh rate) Position accuracy < 2.5 mtrs
Sensors	XYZ accelerometer 1kHz sampling rate (up to +/- 16G)



# 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
- 

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

- K-Box for thermocouples and analog instrumentation
- Rebel Dash display
- Logging on up to 7 CAN BUS channels
- LIN
- FlexRay
- Wifi
- u-blox 3G GPRS modem
- 18Hz u-blox GPS
- 1kHz XYZ accelerometer

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