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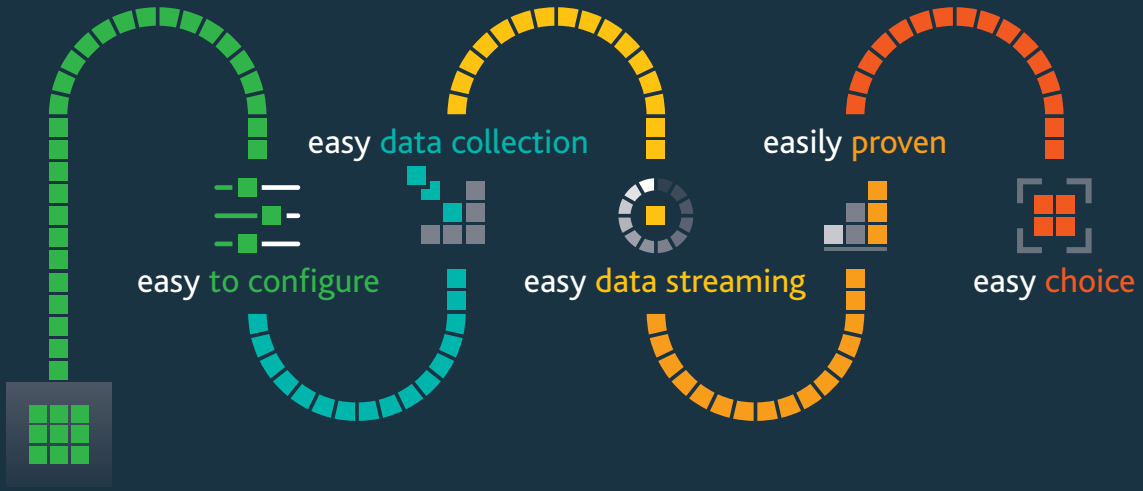
REBEL CT

Out the box dataloggers



connect, simply configure and go

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REBEL CT

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

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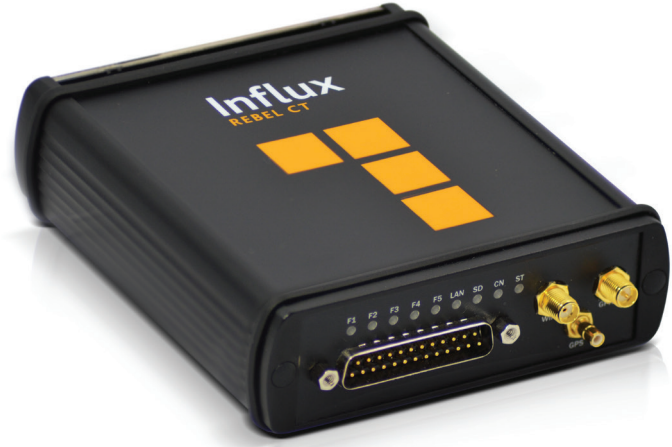
REBEL CT



The standard Rebel Compact (CT) is a small robust data logger ideal for applications which require vehicle network data. It is packaged in a robust IP65 enclosure and can be expanded to include GPS, accelerometer, Wifi and 3G.

Features:

- 3x CAN buses
- 1x K-Line
- 4x digital I/O channels
- 4x analog input channels
- Ethernet (LAN)
- SDHC card data storage
- Dust and splash proof cover – SD card securely housed behind a flap panel

Options:

- Internal 20 Hz GPS with socket for external antenna
- 1kHz internal XYZ accelerometer +/-16G max
- 3G Modem
- Wifi
- K-Box
- Rebel Dash display

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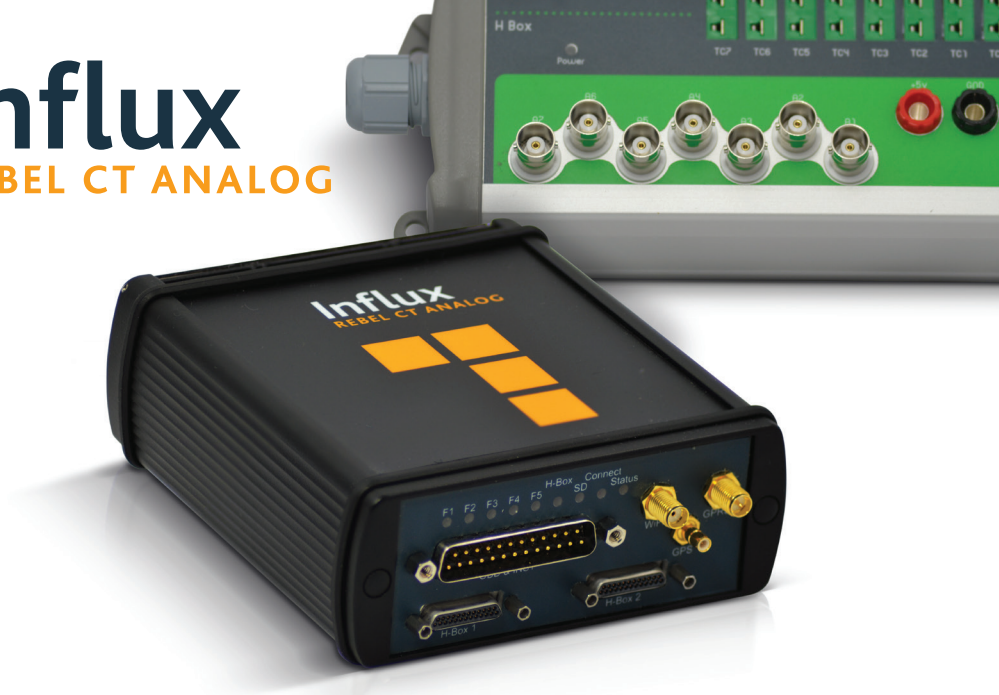
REBEL CT ANALOG



Sensor data is easily integrated with the vehicle network data using the Rebel CT Analog. The easy connect H-Box is included with the Rebel CT Analog data logger. (Available as a single or double H-Box version)

Features:

- 3x CAN buses
- 1x K-Line
- 4x digital I/O channels
- 4x analogue input channels
- Ethernet (LAN)
- SDHC card data storage
- Dust and splash proof cover – SD card securely housed behind a flap panel
- Up to 16x K-type thermocouple inputs
- Up to 14x Analog inputs sampled up to 1 KHz
- Internal 20 Hz GPS with socket for external antenna
- 1kHz internal XYZ accelerometer +/-16G max

Options:

- 3G Modem
- Wifi
- K-Box
- Rebel Dash display

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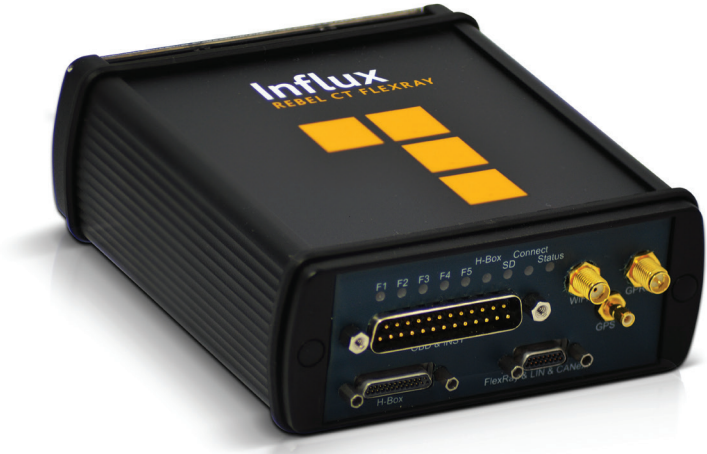
REBEL CT FLEXRAY



The Rebel CT FlexRay is our most powerful data logger yet. It is a low cost solution to expand into FlexRay data logging with add-on instrumentation via the H-Box instrumentation port.

Features:

- 6x CAN buses
- 1x K-Line
- 4x digital I/O channels
- 4x analogue input channels
- Ethernet (LAN)
- SDHC card data storage
- Dust and splash proof cover – SD card securely housed behind a flap panel
- 8x K-type thermocouple inputs (via H-box supplied separately with the Rebel FlexRay logger)
- 7x Analog inputs
- 2x FlexRay channels
- 1x LIN bus
- Internal 20 Hz GPS with socket for external antenna
- 1kHz internal XYZ accelerometer +/-16G max

Options:

- 3G Modem
- Wifi
- H-Box
- 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.

DiaLog is our data logger configuration and data analysis tool. Critical to operating the Rebel data loggers, 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.

Rebel CT Dataloggers

A flexible, compact and configurable family of data loggers:

The standard CT – out of the box data logger. Connect, configure & go!
Analog – enabling up to two H-Box instrumentation ports.
FlexRay – combines FlexRay, additional CAN channels, LIN and an external H-Box instrumentation port.

	CT Standard	CT Analog	CT FlexRay
CAN	x3	x3	x6
LIN	No	No	x1
FlexRay	No	No	x2
K-Line	x1	x1	x1
Ethernet (LAN)	Yes	Yes	Yes
Analog inputs	x4	x4	x4
Digital I/O	x4	x4	x4
USB interface	Yes	Yes	Yes
Dimension (LxHxW) mm	126x35x110	126 x45x110	126x45x110
IP rating	IP 65	IP 65	IP 65
SD HC (max)	32 Gbyte	32 Gbyte	32 GByte
H-Box Instrumentation port	No	Yes	Yes
GPS	20Hz (option)	20Hz	20Hz
Modem	3G (option)	3G (option)	3G (option)
Wifi	option	option	option
Accelerometer	1kHz (option)	1kHz	1kHz

Technical Data

	Rebel CT Standard	Rebel CT Analog	Rebel CT FlexRay
Power supply	4.7V to 36V DC		
	Normal operation approx 300mA at 12V		
	Sleep mode approx 80mA at 12V		
	Power down stand by mode approx 3mA at 12V		
Power consumption	WakeOnCAN		
PC interfaces	USB2.0 Type B		
LIN interface	none	none	1x LIN bus
FlexRay interface	none	none	2x channels
CAN interfaces	3x CAN 2.0B max 1MBit/s	3x CAN 2.0B max 1MBit/s	6x CAN 2.0B max 1MBit/s
Enclosure	Dimension (LxHxW) 126x 35 x 110 mm Weight 370g	Dimension (LxHxW) 126x 45 x 110 mm Weight 524g	
	Aluminium		
Enviromental	-40degC to +85degC Humidity max 90%		
Other interfaces	K-Line Ethernet (LAN) J1708(option)		
Data storage capability	user removable SDHC max 32GByte		
Sensors	xyz accelerometer 1KHz sampling rate (up to +/- 16G)		
Instrumenation ports	none	1 or 2 H-Box ports	x1 H-Box port

Technical Data

	Rebel CT Standard	Rebel CT Analog	Rebel CT FlexRay
	Analog Inputs		
Number of channels	4 bipolar single-ended inputs	14 bipolar single-ended inputs	7 bipolar single-ended inputs
Range	+/- 10V	+/- 20V	
Resolution (ADC)	12 bits	14 bits	
Max Sampling Rate	1KHz		
Input Impedance	>50k Ohms	>80k Ohms	
Input Protection	+/- 40V		
Thermocouple	0	16K-type	8K-type
	Digital Input/Output		
Number of channels	4 unipolar single-ended inputs/outputs		
Input Switching Thresholds	Low < 2V, Hight > 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		
	Options		
Fleet Management	Remote Connection to StreamLog enables remote event monitoring, remote reconfiguration and data streaming.		
Integrated Wireless LAN	Wifi 802.11abgn 2.4/5GHz Module		
Integrated Modem	3G with external antenna		
Internal GPS	Internal GPS with external antenna (20Hz refresh rate)		
Data storage capability	Position accuracy < 5 mtrs		

Distributor:

SMARTO
25 Quai Gallieni
92150 Suresnes
Tél. 0158470343

Influx TECHNOLOGY

The Annexe ▪ 81 Horslow Street ▪ Potton ▪ Bedfordshire ▪ SG19 2NX ▪ UK

T: +44(0)1767 262922 ▪ sales@influxtechnology.com ▪ influxtechnology.com