



high speed data logging

Designed to be flexible and ready to use



The Rebel XT & LT acquires data remotely and without user interaction, collecting data from several sources reliably for long periods of time.

Rebel features:

- Bluetooth or Wi-Fi (Rebel XT)
- GPRS module for remote connectivity
- GPS module (optional)
- LCD panel and keypad (Rebel XT)
- Dust and splash proof cover
- Very low sleep current consumption



Typical applications include:

- **Vehicle testing using OBD & J1939 protocols.**
Data can be acquired from vehicles without the need to add additional instrumentation.
- **High speed engineering data**
Data acquisition using CCP & xCP protocols allows high speed sampling to acquire internal ECU parameters.

The Rebel also supports UDS data acquisition.

- **CAN bus data logging applications**
CAN signals can be recorded in a "listen only" mode.

Our data logging solution is easy to use

Each sample is accurately time stamped and multiple data sources can be simultaneously monitored such as PIDs, CAN BUS signals and instrumentation. It is possible to monitor more than one module on multiple CAN buses, and all data is stored on an SDHC card in FAT32 format ready to be read on a p.c.



The Rebel data logger is configured with DiaLOG; our configuration and data analysis software. This ensures that it is easy to setup the data logger making it ready to support most field applications.

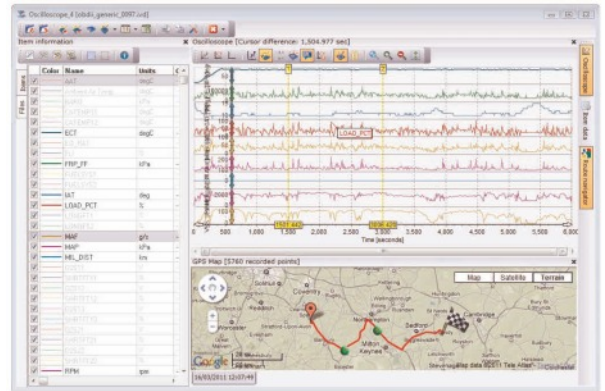
Dialog features:

- Integrated project database to organise and store configurations.
- It supports industry standard files such as ASAM A2L, ODX and CAN dbc.
- Integrated data analysis to view, analyse and export recorded data.
- Live data viewer allows you to view data as it is being recorded on your computer.



Handling large amounts of data

Dialog is capable of processing very large amounts of data. Typically data loggers can record over several weeks and, most data analysis tools are not designed to handle this amount of data. An inbuilt optimisation processes within Dialog allows you to merge and process vast quantities of data, whether you want to analyse directly within Dialog or export to a third party tool such as Matlab™ and nCode™.



Triggers & Events

- An intuitive interface enables complex trigger conditions to be configured.
- Edit triggers using multiple conditions and logic commands.
- Up to 40 triggers and conditions can be supported.
- Event lists enable separate data items to be sampled when events are triggered.
- Produce OBD triggered reports.
- Emissions and extended DTCs reports.
- Trigger event reports for each logging session with batch export option.
- Set the pre-triggers and post log times.



Rebel xt technical specifications

Technical Data	Description
Power supply	4.7V - 38V
Power consumption	Normal operation approx 250mA @ 12V Sleep mode approx 80mA @ 12V Power down stand by mode approx 3mA @ 12V
PC interfaces	USB2.0 Type B Bluetooth 2.1 with range up to 300 mtrs (option)
CAN interfaces	3x CAN 2.0B max 1MBit/s Wakeup on CAN
Enclosure	Dimension (LxHxW) 165x 30 x 100 mm Weight 1000g IP65 (Flap cover closed)
Environmental	-25degC to +85degC Humidity max 90%
Other interfaces	4x Digital inputs (can also be configured as digital out) K-Line LIN (optional)
Data storage capability	1x SDHC max 32GByte 1x mini-SD max 32GByte
Displays and controls	2 Line 20 character per line LCD display 3x system LED for SD card,pc connection status 5x LED's to indicate CAN bus connection status 4x keypad buttons internal buzzer to alert operator
Wireless (option)	Internal GPRS/EDGE with external antenna
GPS (option)	Internal GPS with external antenna (1Hz update rate) Position accuracy < 5 mtrs
Instrumentation	triaxial acceleration sensor (4Hz update rate) H-Box port 8x K-type, 7x analogue (optional)



Rebel xt functions

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, Bluetooth, GPRS and SD card
Data formats	Data can be converted to MDF, Matlab, CSV and nCode formats
Trigger Conditions	Up to 40 configurable conditions (>,< ,=,increment,decrement or on-change)
Trigger Actions	Up to 40 configurable triggers, Functions include start or stop logging,read one-shot data list, read DTC,read OBD data ..., Configurable pre & post trigger times, Configurable LED & buzzer indication,
Wake up time	Normal logging starts within approx 12 seconds (depending on configuration) Wake up from sleep, logging starts within approx 20mSec.



Rebel It technical specifications

Technical Data	Description
Power supply	4.7V - 38V
Power consumption	Normal operation approx 250mA @ 12V Sleep mode approx 80mA @ 12V Power down stand by mode approx 3mA @ 12V
PC interfaces	USB2.0 Type B
CAN interfaces	2x CAN 2.0B max 1MBit/s Wakeup on CAN
Enclosure	Dimension (LxHxW) 165x 30 x 100 mm Weight 1000g IP43
Environmental	-25degC to +85degC Humidity max 80%
Other interfaces	4x Digital inputs (can also be configured as digital out) K-Line
Data storage capability	1x SDHC max 32GByte
Displays and controls	3x system LED for SD card,pc connection status 5x LED's to indicate CAN bus connection status
Wireless (option)	Internal GPRS/EDGE with external antenna
GPS (option)	Internal GPS with external antenna (1Hz update rate) Position accuracy < 5 mtrs triaxial acceleration sensor (4Hz update rate)
Instrumentation	H-Box port 8x K-type, 7x analogue (optional)



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