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ReXGEN 1

RE^{liable}ne^{Xt}GEN^{eration}
data computing

Reliable

– Robust IP65 enclosure

– Industrial temperature specification

– 1000s of hours of rigorous in-field testing

Secure

– Reliable non-removable eMMC data storage

– Fixed device mounting positions

Accurate

– Micro Sec timestamped data

Data

– 1x CAN bus

– Functions as an interface device and supports J2534 (Pass-thru).

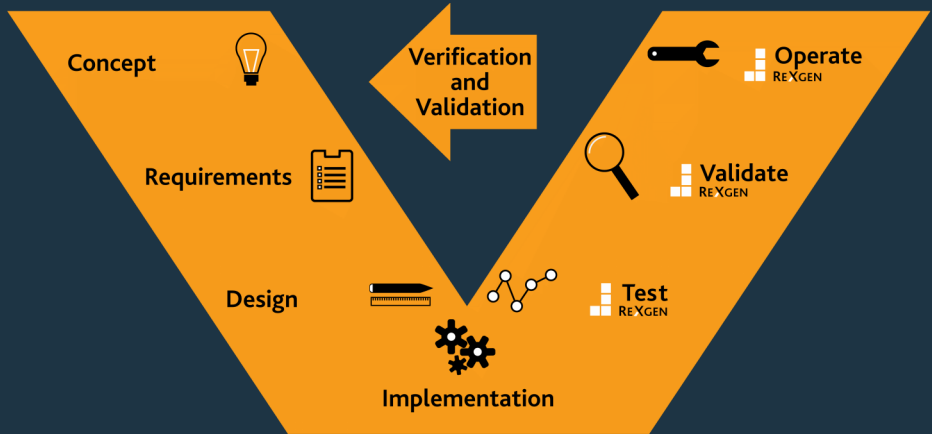– Supports live CAN trace monitoring, RAW CAN signals, SAE J1939.

Trust

– Reliably wakes up from multiple sources and records every-time!

– Supports various Sleep modes.

REliable neXt GENeration

data computing

- Concept
- Requirements
- Design
- Implementation
- Verification and Validation
- Test ReXgen
- Validate ReXgen
- Operate ReXgen

Capturing critical CAN data and messages

The ReXgen 1 is designed to be fitted during development through to production, capturing continuous data and events.

The ReXgen1 is a compact, accurate, cost effective , single CAN datalogger with pass-thru. Suitable for automotive and various industrial applications.

- Supports J2534 (Pass-thru).
- Logs data reliably, for hours, from a CAN bus.
- Saves your data to the embedded eMMC.
- IP65 enclosure
- Easily mounted and integrated with your vehicle /machine.

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ReXgen 1

ReXgen1

Capturing critical CAN data and messages

Key features

- Supports 1XCAN bus.

- Functions as an interface device and supports J2534 (Pass-thru)

- Supports live CAN trace monitoring RAW CAN signals, SAE J1939

- Sleep modes with wake-up on CAN and low power consumption

- Encrypts data logs using Advanced Encryption Standard (AES)

- Enables locking of the device using RSA data security

- Open Libraries for logger management and data Conversion

- XML based configuration (Schema provided)

- Free ReXdesk software that allows the user to export the loaded data to .mf4, .csv, mat, .asc, .blf, .trc and. rxd format

- Supports free firmware updates for adding features

- Tolerable to harsh environments with an IP65 rating

- Free powerful graphic interface application tool ReXdesk provided

- Micro USB 2.0 PC interface

- CAN error logging

Hardware Versions

Current Range (Non-modular)

REXGEN 1 8GB

P/N: INF2109.01

| CAN | J2534 | J1939 | Z z z Sleep | 1001010 0110001 0101100 Live Data |

ReXgen 1's additional features:

- Efficiently records CAN bus data and advanced message filtering on configurable channels (J1939 and CAN)

- Supports advanced triggering options and advanced CAN bit timing configuration.

- The most compact, cost-effective, plug-and-play device which operates as a CAN bus interface for real-time USB streaming and has 8GB eMMc storage.

Technical Specifications

Functions	ReXgen 1
CAN Interfaces	1 x CAN ISO 11898-1: Compliant with CAN (up to 1 Mbit/s) Conforms to CAN protocol version 2.0 - part A, B Max 20000 MPs Meets the requirements of ISO 11898-2:2016 & ISO 11898-5:2007 physical layer standards
PC Interfaces	Rugged Micro USB 2.0 (Datalogger mode and J2534)
Data Storage Capability	8 GB Inbuilt eMMC storage
Supported Protocols	CAN Monitoring (RAW CAN signals, SAE J1939 support)
LEDs	1
Triggering	Trigger on a CAN ID, Trigger on Parameter Value Trigger on DM1 counter.
Data Storage format	FAT32, Log files accessible via ReXdesk software
File Format Supported	ASAM MDF (.mf4), CSV, MATLAB, ASC, BLF, TRC
Data Logger Configuration	Supplied with Influx ReXdesk configuration software, XML based

BUS & Signals	Operating Voltage
Power supply - OBD	+4.5 to +31V
Power supply - USB	+4.5 to +5.5V

Function	Description
Transceiver Protection	Bus fault protection: ±58 V Thermal-shutdown protection (TSD) Under-voltage protection
Enclosure	PC+ ABS
IP Rating	IP65
Dimension	L - 100 mm, W - 73.5 mm, H – 27.4 mm
Weight	164 Grams
Mounting Holes	Four mounting holes and screws
Environmental Tolerance	Working temperature -40degC to +85degC; **Humidity** max 90%
Power Saving	Wake Up On CAN, Power Down Mode, Sleep Modes,
Power Consumption	Normal Operation: 87 mA at 12 V Power Down Mode: <2 mA

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ReXdesk

ReXdesk
Configure logger and retrieve data

ReXdesk is our freely distributable configuration and file conversion software tool to work with the ReXgen series. Designed to make CAN bus data logging easier.

ReXdesk supports multiple DBC files enabling configurations that include filters and log on parameter values. ReXdesk can be downloaded from our website.

- Triggers—on parameter value or CAN Identifier
- Supports Command Line Interface
- ReXdesk convert aplication available
- Supports J1939
- CAN error logging and Live CAN trace viewer
- Fast data retrieval and export to other file formats
- Compatible Operating System: Windows
- Supports industry standard DBC files
- Supports standard and extended messages

Live Data
Monitor live CAN data

CAN
Configure the CAN bus

Filter
Filter CAN bus data using DBC file

Encryption
Encrypts data logs/devices using Advanced Encryption Standard

Periodic
Periodic CAN message transmission

Sleep
Sleep modes for minimal power consumption

CAN Errors
Logs CAN bus Errors

More
Find more functions on our website

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ReXGen 1