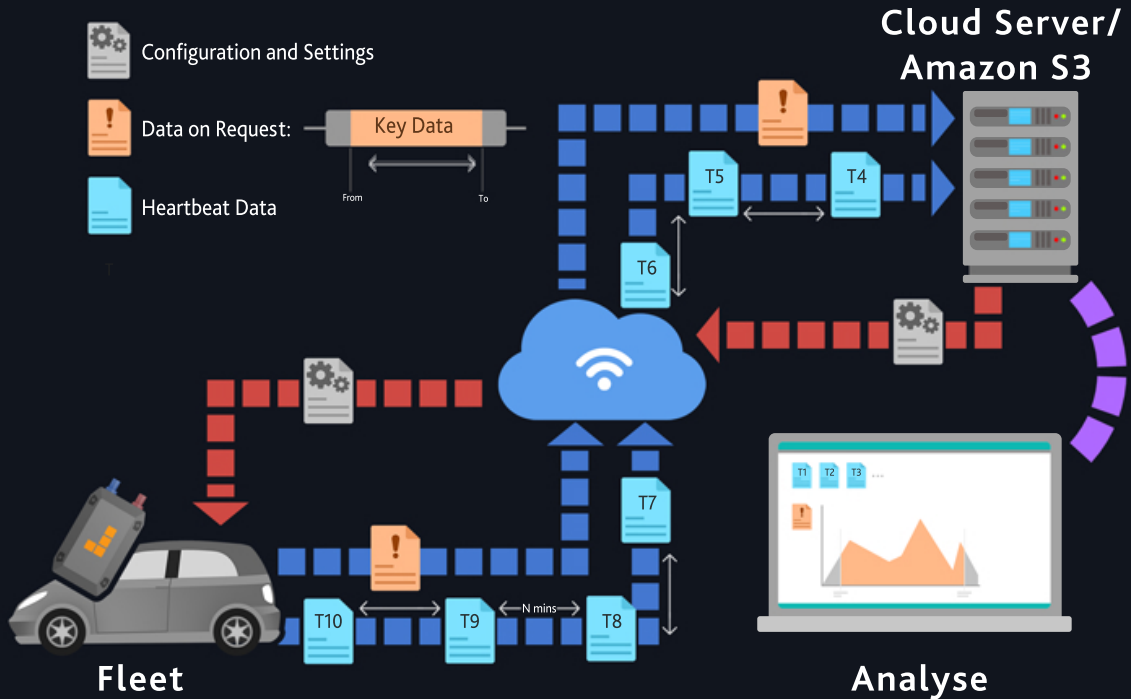




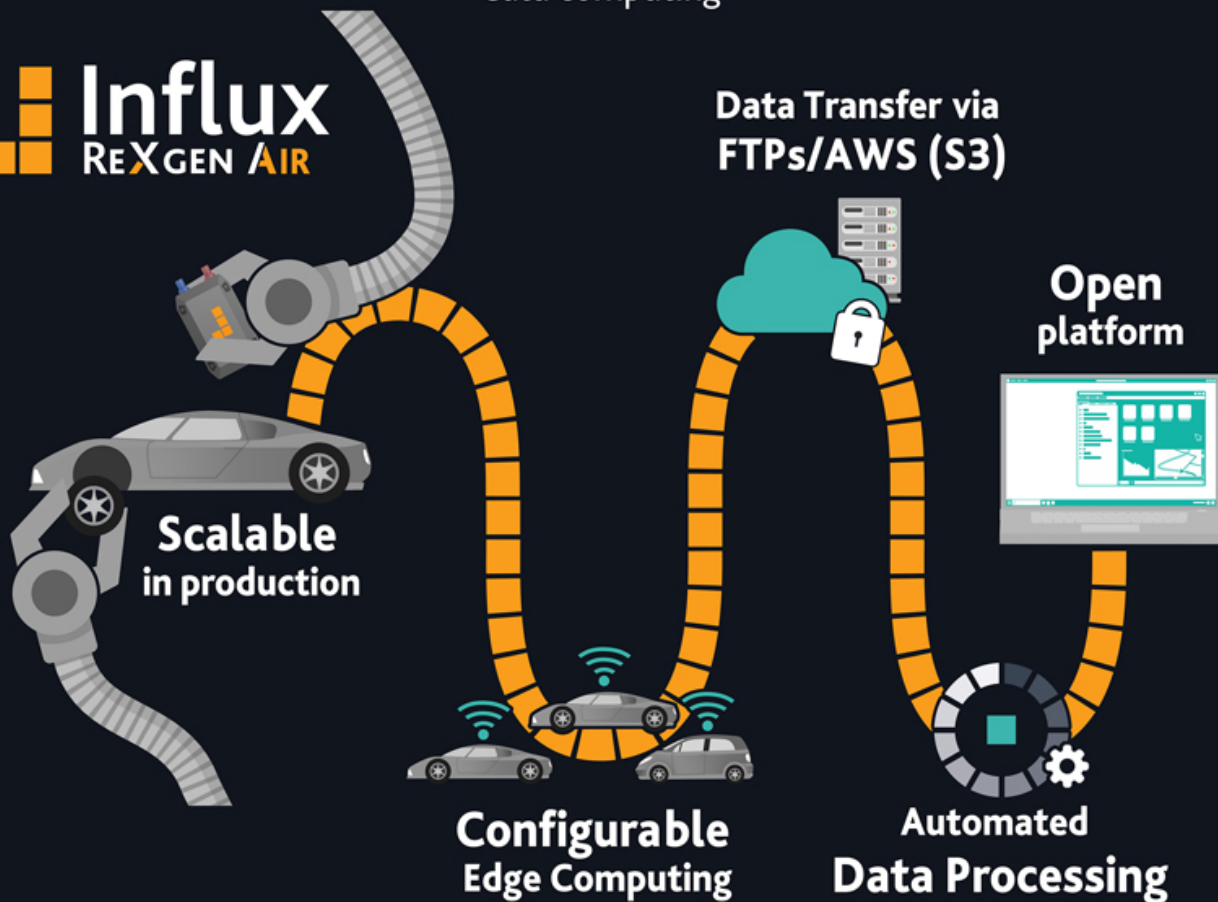
RE^{liable}ne^{xt}GEN^{eration}

data computing



RE^{liable} ne^tX^{GEN}eration

data computing





Key features

- Up to 4 CAN/CAN FD buses
- x2 Analog Inputs, x1 Power Stage Relay Driver (Optional)
- x1 LIN bus
- x2 Digital inputs
- Integrated 18Hz GNSS (u-Blox)
- Integrated IMU (6 axis)
- Encrypts data logs using Advanced Encryption Standard (AES)
- Open API or XML Schema provided
- Live CAN/CAN FD Monitoring
- Enables Locking of the device using RSA data security
- Micro USB 2.0 for data transfer and configuration
- CAT -1 connectivity
- Secure Data transfer using FTPs and Amazon S3.
- Supported Data formats -
ASAM MDF4 MATLAB (.mat), CSV, ASC & BLF
- Various sleep modes, with low power consumption
- x4 configurable LEDs
- CAN/J1939 filters
- Easily stackable and installable
- Automotive grade Molex Mini50 connection system

Hardware Configurable



Up to 32GB



REXGEN AIR

Reliable, Secure, Accurate
data computing that you can trust.



P/N: INF2116.NN

ReXgen Air is a compact, robust, accurate and cost-effective solution specially designed to become a part of your fleet during production.

A progressive system that works on LTE CAT1.

A data logger with on-board processing and telematics capabilities connects machines to the cloud or stores data locally.

It can securely transmit data over FTPs and Amazon S3 to be easily set up on the local or cloud server. Allows the encryption of data logs with Secure Hash Algorithm (SHA). An open platform that can be supported by any 3rd party tools and can be integrated into any data system. Also, supplied with a free powerful graphic interface application tool.

ReXgen Air provides you with the freedom to build your system to maintain your data.



Technical Specifications

Functions	ReXgen Air
CAN Interfaces	Up to 4 x CAN/CAN FD ISO 11898-1: Compliant with CAN (up to 1 Mbit/s) ISO & Bosch CAN FD (up to 8 Mbit/s) Conforms to CAN protocol version 2.0 - part A, B Up to 20000 mps Meets the requirements of ISO 11898-2:2016 & ISO 11898-5:2007 physical layer standards
CAN/CAN FD Functions	CAN/CAN FD Bit timing selection SAE J1939 support (Source Address, Destination Address & PGN Filters) Silent Mode Configurable Periodic CAN Transmission CAN DBC Support CAN frame error detection
LIN Interface	1 x LIN (Master & Slave mode)
LTE	CAT 1 (see uBlox Lara R2 Series)
Inputs	2 x Digital and 2 x Analog
Instrumentation Supply	5 Volts (Ensure that current draw is not more than 100mA)

Functions	ReXgen AIR
GNSS	Up to 18 Hz rate 72-channel, GNSS L1C/A, SBAS L1C/A, QZSS L1C/A, QZSS L1-SAIF, GLONASS L1OF, BeiDou B1I , Galileo E1B/C
Position Accuracy	2.0 m CEP*
Acquisition	Cold starts: 26s Reacquisition: 2 s
Antenna	External FAKRA Code C
Accuracy	Velocity: 0.05m/s
	Heading: 0.3 degrees
	Others
Accelerometer	$\pm 2/\pm 4/\pm 8/\pm 16$ g full scale
PC Interfaces	Micro USB Type AB 2.0 interface (Standard version)
	USB interface via the Molex Mini50 connector (Optional)
Gyroscope	$\pm 125/\pm 250/\pm 500/\pm 1000/\pm 2000$ dps full scale
Data Storage Capability	Up to 32 GB eMMC storage
Supported Protocols	CAN Monitoring (RAW CAN signals, SAE J1939 support)
Triggering	Trigger on CAN ID, CAN Signal, Digital Input
	Trigger on DM1 counter
LEDs	4
File Format Supported	RXD, RXE, ASAM MDF (.mf4), CSV, MATLAB, ASC, BLF



Technical Specifications

Functions	ReXgen AIR
Data Transfer Protocol	FTPS and Amazon S3
Security Functions	Encryption of data logs, Locking of device
Encryption Standard	RSA (for locking device) and AES (for log data)
Data Logger Configuration	Supplied with Influx ReXdesk configuration software, API, CLI
Configuration	XML based (Schema provided)
	Analog Input
Number of channels	2 x Bipolar single-ended inputs
Range	+/- 10 V
Resolution (ADC)	12 Bit
Max Sampling Rate	1 kHz
Input Impedance	> 50 K Ohms
Safe Applied Voltage	+/- 28 V
	Digital Input
Number of channels	2 x Unipolar single-ended inputs
Input Switching Thresholds	Low < 0.8 V, High > 2.5 V (up to 28V)
Safe Applied Voltage	+/- 28 V



Technical Specifications

Integrated GPRS	LTE modem
Category	LTE CAT1*
LTE CAT1 Bands	LTE FDD Bands: 1(2100 MHz) ,2(1500 MHz), 3(1800 MHz),4(1700 MHz), 7(2600 MHz), 8(900 MHz), 12(700 MHz), 13(700 MHz), 19(850 MHz), 20(800 MHz), 28(700 MHz)
Receiver input Sensitivity	-98dBm to -114dBm: 700MHz to 2100MHz
Antenna	External FAKRA Code D

*Mention region of use while ordering.

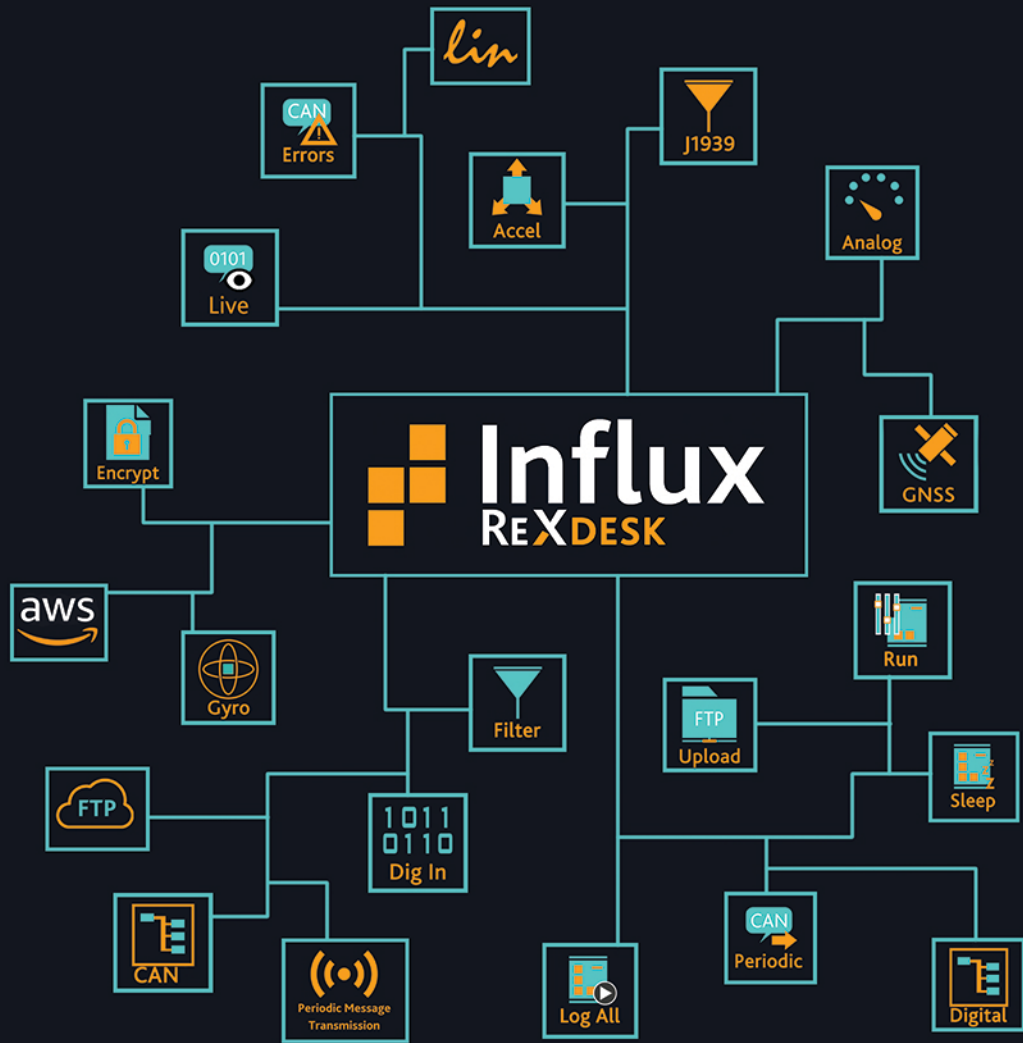
*Works with AT&T and T-Mobile in USA

BUS & Signals	Operating Voltage
Power supply - OBD	+4.5 to +31V
Power supply - USB	+4.5 to +5.5V
CAN/CAN FD	+2 to +3V
LIN	0 to +24V
Digital Input	0 to +28V
Analog input	+/- 10V



Technical Specifications

Function	Description
Transceiver Protection	Bus fault protection: ± 58 V
	Thermal-shutdown protection (TSD)
	Under-voltage protection
Enclosure	PC+ ABS
IP Rating	IP50
Dimension	L - 100 mm, W - 65 mm, H - 30 mm
Weight	112g*
Mounting Holes	4 mounting holes and screws
Stackable	Yes
Environmental Tolerance	Working temperature -40degC to +85degC; Humidity max 90%
Power Saving	Wake Up On CAN, Power Down Mode, Sleep Modes,
	Wake Up On Movement*
Power Consumption	Normal Operation: 300 mA at 12 V
	Power Down Mode: <2 mA





ReXdesk is our freely distributable configuration and general-purpose software tool to work with the ReXgen. Designed to make CAN bus data logging easier.

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

- Supports industry standard DBC files
- Supports standard and extended messages



Live Data

Allows monitoring of Live CAN data.



CAN

Allows to configure the CAN bus.



FTP/Amazon S3

Allows storing data using FTPs and Amazon S3



Encryption

Encrypts data logs/devices using Advanced Encryption Standard.



Periodic

support periodic CAN/CAN FD message transmission.



Sleep

Supports various sleep modes, for minimal power consumptions.



Can Errors

Allows to log CAN bus Errors.



Analog

Allows to add an analogue channel and set the sampling rate and conversion formula.



Accelerometer

Allows to configure Accelerometer (IMU) channels.



Gyro

Allows to configure Gyroscope (IMU) channels.



GNSS

GNSS: Allows to configure GNSS channels



More

Find more functions on our website

ReXDESK

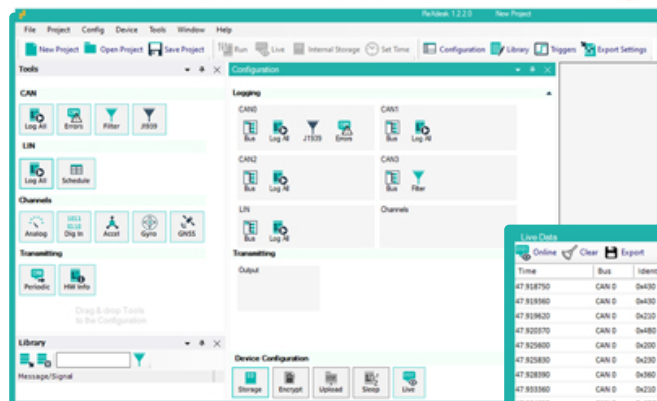
Configure logger and retrieve data

- Triggers, on parameter value or CAN Identifier
- Supports FTPs/AWS(S3) data transfer over LTE
- Supports Command Line Interface
- ReXdeskconvert console application available
- Supports J1939
- CAN error logging and Live CAN trace viewer
- Fast data retrieval and export to other format files
- Software Operating System: Windows



REXDESK

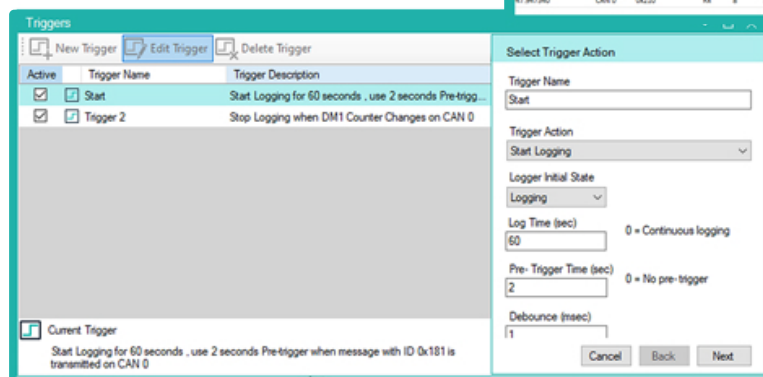
Configure logger and retrieve data



Tools and Configurations

Live Data and Trace View

Time	Bus	Ident	Flags	DLC	Data
47.918750	CAN 0	0x430	Rx 7	FF	FF FF FF 00 00 40
47.919060	CAN 0	0x430	Rx 8	07	00 8C 42 00 00 00
47.919420	CAN 0	0x210	Rx 8	FF	FF 00 80 90 00 00
47.920570	CAN 0	0x480	Rx 8	44	1E 44 24 44 1E 44 07
47.925600	CAN 0	0x200	Rx 7	00	00 00 00 00 00 20
47.925830	CAN 0	0x230	Rx 8	00	FF FF FF FF 00 00 00
47.928390	CAN 0	0x360	Rx 8	FF	FF FF FF 0C 12 00 FF
47.930360	CAN 0	0x230	Rx 8	FF	FF 00 80 90 00 00
47.934350	CAN 0	0x480	Rx 8	44	24 44 1E 40 70 44 1E
47.935170	CAN 0	0x200	Rx 7	00	00 00 00 00 00 20
47.935800	CAN 0	0x230	Rx 8	00	FF FF FF FF 00 00 00
47.936060	CAN 0	0x210	Rx 8	FF	FF FF FF 44 22 00 70
47.938180	CAN 0	0x430	Rx 7	FF	00 8C 42 00 00 00
47.939370	CAN 0	0x430	Rx 8	07	00 8C 42 00 00 00
47.939890	CAN 0	0x360	Rx 8	FF	FF FF FF 0C 12 00 FF
47.945810	CAN 0	0x200	Rx 7	00	00 00 00 00 00 20
47.946030	CAN 0	0x230	Rx 8	00	FF FF FF FF 00 00 00
47.947340	CAN 0	0x210	Rx 8	FF	FF 00 80 90 00 00



Multiple Trigger Settings



☒ Enable AWS
 Mobile
 Airtel
 Region
 S3 Type
 S3 Connection Type
 Port
 Bucket
 Access Key
 Secret Key
 Firmware Check Time (sec)
 Configuration Check Time (sec)
 Status Send Time (sec)
☐ Automatic Firmware Update
☐ Encrypt Password
☐ Keep Log Files On Device

☒ Store data to FTP using mobile internet
 Mobile
 Airtel
 FTP
 Check Config Time (min)
 Send Status Time (min)
 Check Firmware Time (min)
☐ Automatic Firmware Update

.net DLLs available

Periodic CAN message transmission

Periodic messages

Remove

Ident	Type	BRS	CAN 0	CAN 1	Period	DLC	Data
0x111	CAN Standard		<input checked="" type="checkbox"/>	<input type="checkbox"/>	100	8	11 11 21 11 21 21 21 11
0x01211111	CAN Extended			<input type="checkbox"/>	100	8	21 11 11 11 21 22 22 22
0x121	CAN FD Standard	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	100	8	12 12 22 22 22 22 22 21
0x17A7B850	CAN FD Extended	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	100	64	11 11 11 11 11 11 22 22 11 11 11 55 11 11 22 22 22 22 22 22 22 22 22 21 11 11 11 11 11 22 11 11 11 11 11 11 11 11
0x17A7B850	CAN FD Extended	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	100	64	22 22 22 22 22 22 00 00 01 11 11 11 22 22 22 22 22 11 11 11 11 11 11 11 12 22 22 22 22 22 22 11 11 11 11 11 11 11 12 12 45 55 55 55 45 45 55 45 55 55 55 55 78 78 78 45 88 09 00 00 00 00 00 00

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