



Remote Dashboard Configuration

# PRO REXGEN

4 CAN - 2 LIN

32GB eMMC CAN FD Support



## Multi-Layer Architecture



Now Supporting

## CAN to Cloud



## Secure & Certified



Hardware Enhanced Security



UN R155 Compliant



Configurable multi-layer encryption



OTA Updates

## Analog & Digital

5V Sensor Power Supply - PWM Support

## Built Tough

IP65 Rated for ultimate protection against dust and water, ensuring durability in any environment.



## GNSS

LTE CAT 4  
LTE CAT 4  
LTE CAT 4  
LTE CAT 4  
LTE CAT 4  
LTE CAT 4



|                        |                                                                                                                                                                                                                                                                                                              |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CAN Interface          | Up to 4 x CAN/CAN FD (Arbitration Rate 500 Kbps & Data Rate 8 Mbps)<br>ISO 11898-1: Compliant with CAN (up to 1 Mbit/s)<br>ISO & Bosch CAN FD (up to 8 Mbit/s)<br>Conforms to CAN protocol version 2.0 - part A, B<br>Meets the requirements of ISO 11898-2:2016 & ISO 11898-5:2007 physical layer standards |
| CAN / CAN FD Functions | Supports custom baud rates<br>CAN/CAN FD Bit timing selection<br>SAE J1939 support (Source Address, Destination Address & PGN Filters)<br>Silent Mode Configurable<br>CAN DBC Support<br>CAN frame error detection                                                                                           |
| LIN Iterface           | 2 x LIN                                                                                                                                                                                                                                                                                                      |
| Data Storage           | 32GB eMMC                                                                                                                                                                                                                                                                                                    |
| Processor              | NXP imx8mini Application Series Quad core processor                                                                                                                                                                                                                                                          |
| Secure Element         | Configurable                                                                                                                                                                                                                                                                                                 |
| Bluetooth              | Murata 1MW Bluetooth® 5.0 BR/EDR/LE module                                                                                                                                                                                                                                                                   |
| WiFi                   | Murata 1MW WiFi module                                                                                                                                                                                                                                                                                       |
| WIFI Speed*            | 21 GB per hour                                                                                                                                                                                                                                                                                               |
| Wifi Antenna           | External FAKRA Code Z                                                                                                                                                                                                                                                                                        |
| LTE                    | CAT 4                                                                                                                                                                                                                                                                                                        |
| LTE Speed*             | 13.5 GB per hour                                                                                                                                                                                                                                                                                             |
| LTE Antenna            | FAKRA Code D                                                                                                                                                                                                                                                                                                 |
| Data Transfer Protocol | Configurable                                                                                                                                                                                                                                                                                                 |
| Inputs                 | 2x Digital and 3x Analog                                                                                                                                                                                                                                                                                     |

|                     |                                                                                                       |
|---------------------|-------------------------------------------------------------------------------------------------------|
| IMU                 | 6 Axis accelerometer ( Max sampling rate 1KHz)                                                        |
| Accelerometer       | ±2/±4/±8/±16 g full scale<br><br>(Max sampling rate-1KHz)                                             |
| Gyroscope           | ±125/±250/±500/±1000/±2000 DPS full scale<br><br>(Max sampling rate-1KHz)                             |
| Antenna             | External FAKRA Code C                                                                                 |
| GNSS Receiver Type  | 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<br><br>Reacquisition: 2 s                                                            |
| GPS Accuracy**      | Velocity: 0.05m/s<br><br>Heading: 0.3 degrees<br><br>Altitude: not specified                          |
| SIM                 | Nano / Soldered Sim                                                                                   |

|                            |                                                                                               |
|----------------------------|-----------------------------------------------------------------------------------------------|
| LTE CAT 4 Bands            | LTE FDD: B1/B2/B3/B4/B5/B7/B8/B12/B13/B18/B19/B20/B25/B26/B28<br><br>LTE TDD: B38/B39/B40/B41 |
| Receiver input Sensitivity | -98dBm to -114dBm: 700MHz to 2100MHz                                                          |
| Connectivity               | Wifi, Bluetooth, LTE (Ethernet optional)                                                      |
| Supported Protocols        | CAN / CAN FD Monitoring (RAW CAN signals) UDS, OBD, XCP                                       |
| LEDs                       | 8                                                                                             |
| Triggering                 | Trigger on CAN ID, CAN Signal, and Digital Input<br><br>Trigger on DM1 counter                |
| Log Files                  | Accessible via ReXdesk Software or Cloud Storage                                              |
| File Format Supported      | ASAM MDF, MF4, Peak TRC, CSV, MATLAB, ASC, BLF, RXD, Parquet                                  |
| Data Logger Configuration  | Supplied with ReXdesk configuration software or XML based Configuration                       |

|               |                                                                                                                                                                                      |
|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Analog Input  | 3 x Bipolar single-ended inputs<br><br>± 10V Range<br><br>12 Bit Resolution (ADC)<br><br>1Khz Max Sampling Rate<br><br>> 50K Ohms Input Impedance<br><br>± 28 V Safe Applied Voltage |
| Digital Input | 2 x Unipolar single-ended inputs (1x PWM)<br><br>Input Switching Thresholds Low < 0.8 V, High > 2.5 V (up to 28V)<br><br>± 28 V Safe Applied Voltage                                 |

|                        |                                                                                                                                 |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| Transceiver Protection | Bus fault protection: ±58 V<br><br>Thermal-shutdown protection (TSD)<br><br>Under-voltage protection                            |
| Enclosure              | Aluminium<br><br>IP65<br><br>Dimensions L - 159.4mm, W - 81mm, H - 27.8mm<br><br>Weight 300g<br><br>4 Mounting Holes and Screws |
| RTC                    | Battery backed RTC                                                                                                              |
| Working Temperature    | -40°C to +70°C                                                                                                                  |
| Working Humidity       | Max 90%                                                                                                                         |
| Power Saving           | Power Down Mode, Sleep Modes, Wake Up On CAN, Wake up on Movement, Digital Input                                                |

|               |                                                                                                                                    |
|---------------|------------------------------------------------------------------------------------------------------------------------------------|
| BUS & Signals | Power Supply OBD 6.5V to 27V<br><br>CAN FD +2 to +3V<br><br>LIN 0 to +24V<br><br>Digital Input 0 to +28V<br><br>Analog Input ± 10V |
|---------------|------------------------------------------------------------------------------------------------------------------------------------|

\*specification are correct to date of publication but subject to change or change without notice  
\*\*As mentioned and marketed by the component manufacturer  
All values (like speeds) are achieved in controlled testing environments  
Device renders for illustrative purposes only