



Automotive Bus Analyzers

USB Analyzer (Dual CAN FD & LIN)

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Product Overview

SAYKAL USB CAN-LIN Analyzer; It is a versatile electronic device used in the automotive industry and in all other sectors. It supports the CAN and LIN protocols, enabling vehicle communication network monitoring, analysis, and control. With its multi-protocol support, data analysis, logging capabilities, interface conversion functionality, and user-friendly interface, the USB CAN-LIN Analyzer empowers users to enhance system performance and facilitate effective communication. Its application extends beyond automotive to include advancements in all industries, making it a valuable tool for various sectors.



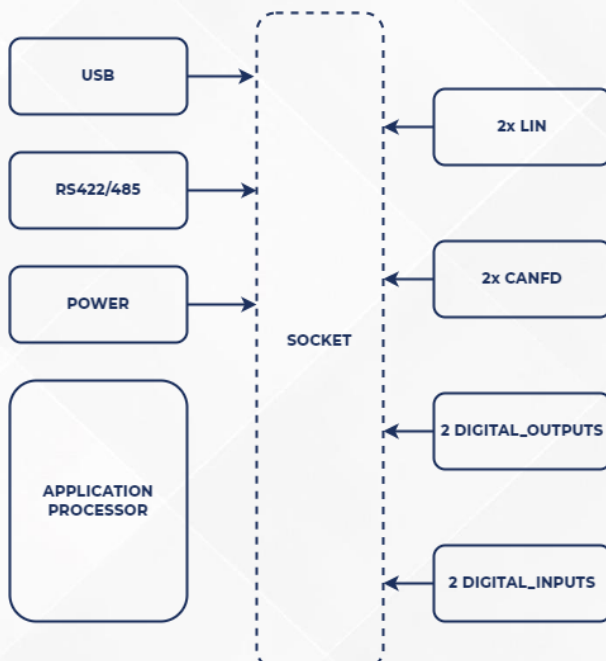
Applications

- BUS Monitoring and Control for
 - Development
 - Fault Diagnostic
 - And Test Cases
- Bridge for Firmware Update Over CAN
- Data Collection and Analysis

Hardware Features

- 5V USB Type-C Supply
- External 9V – 36V DC Supply
- Reverse Connection Protection Automotive
- 16 Megabit extended storage / 64k FRAM Optimal Reliability
- RS485
- 2x CAN / CAN FD
- 2x LIN
- Temperature Sensing
- 2x Output & 2x Input

Functional Block Diagram



Software Features

- Monitor Buses Simultaneously
- Configurable Device Settings
 - Baud rate
 - R/W Modes for CAN FD
 - Master/Slave Modes for LIN
- Advanced Software Filters
- Configurable Hardware Filters Over GUI
- Export Monitored Data
 - Excel, CSV, HTML, XML, PDF, TXT
- Hexadecimal, Decimal and Binary Monitoring and Data Saving Formats
- Firmware Update with GUI



Typical Application Features – CAN/LIN Analyzer

- **Automotive Diagnostics:** The USB CAN-LIN Analyzer is an essential tool for automotive technicians and engineers involved in vehicle diagnostics and troubleshooting.
- **ECU Development and Testing:** It is widely used in the development and testing of Electronic Control Units (ECUs) to ensure their proper functionality and communication.
- **Industrial Automation:** The analyzer can be utilized in industrial automation systems that incorporate CAN and LIN communication for monitoring and analysis.

Typical Key Features – CAN/LIN Analyzer

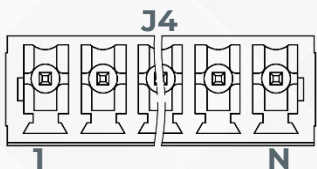
- **Dual Bus Support:** The analyzer supports both CAN and LIN bus systems, allowing users to analyze and monitor both protocols simultaneously.
- **USB Connectivity:** With its USB interface, the analyzer can be easily connected to a computer or laptop, providing convenient and fast data transfer.
- **Real-time Monitoring:** The analyzer offers real-time monitoring of CAN and LIN bus traffic, enabling users to capture and analyze data on the fly.
- **Extensive Protocol Support:** It supports a wide range of protocols, including CAN 2.0A, CAN 2.0B, LIN 1.x, and LIN 2.x, making it compatible with various vehicle networks.
- **Advanced Analysis Tools:** The analyzer comes with powerful analysis tools, such as filtering, triggering, and error detection, to help users identify and troubleshoot issues quickly.
- **User-Friendly Software:** The accompanying software provides a user-friendly interface for configuring and controlling the analyzer, as well as analyzing captured data.

Pin Out / Pin Names and Descriptions

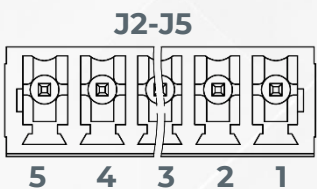
J4 / PINS	NAME	DESCRIPTION
1	DC_IN	Supply Voltage, 9V / 36V
2	Chassis Ground	Chassis Ground
3	LIN1	Local Interconnect Network
4	LIN2	Local Interconnect Network
5	CAN FD 1 High	Flexible Controller Area Network
6	CAN FD 2 Low	Flexible Controller Area Network
7	CAN FD 2 High	Flexible Controller Area Network
8	CAN FD 2 Low	Flexible Controller Area Network
9	RS232_RX	Serial Communication
10	RS232_TX	Serial Communication
11	UART_TTL_RX	Serial Communication
12	UART_TTL_TX	Serial Communication

J2 / PINS	NAME	DESCRIPTION
1	GND_ISO_RS422	Ground
2	RS422_Y	Serial Communication
3	RS422_Z	Serial Communication
4	RS422_B	Serial Communication
5	RS422_A	Serial Communication

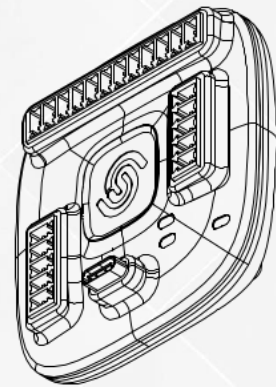
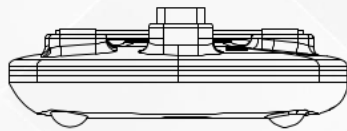
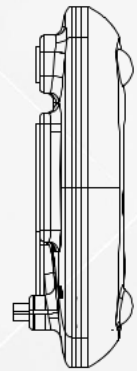
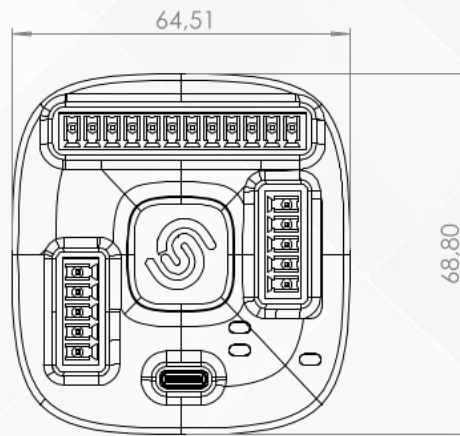
J5 / PINS	NAME	DESCRIPTION
1	D_OUT 1	Low Side Switch
2	D_OUT 2	Low Side Switch
3	GND	Ground
4	D_IN 1	Digital Input
5	D_IN 2	Digital Input



N=Number of Contacts



Package Outline and Branding Drawing



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