

The LIN to CAN Gateway, developed by Sioux Logena answers the need in the market to connect in-vehicle LIN networks and exchange data to the CAN network.

Nowadays we see an increase of LIN Modules (Sensors, Switches,...) in modern vehicles which all are in need to exchange this information to the CAN network. With its specific design the LIN to CAN gateway is able to collect LIN bus information and send these messages to the CAN bus network in the specific CAN format.

In need of gating messages between LIN (master or slave) and CAN? Do you have a need for implementing an existing LIN device in an CAN network? This LIN to CAN gateway offers you this option.

At your convenience Sioux Logena can configure the gateway to match your specific needs and application.

Vehicle LIN-bus



Vehicle CAN-Bus



Knowledge and expertise

Sioux Logena is specialised in developing and integrating software and hardware applications in the automotive industry. With our expert knowledge, Sioux Logena is the technical partner of leading companies in the market.

Also specific products like the Logena
CAN to CAN gateway and a Door Control Unit, help us to support our clients.

Connections

- CAN
- LIN (Master / Slave)

Features

Free configurable / programmable

- Operating voltage: 8 32 V
- Protection class: IP67
- EMC certified
- Green/Red LED indicator
- MOLEX MX150 Series connector
- Load dump / reverse polarity protection
- 120 Ω Termination resistor switchable via software
- CAN baud rates 125 / 250 / 500 / 800 kb/s and 1 Mb/s
- LIN Master / LIN Slave



SOURCE OF YOUR TECHNOLOGY

Technical Specifications

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Specifications			
Product name		LIN-to-CAN Gateway	
Sioux Logena part number		1000429	
System			
CPU		Infineon 96 Mhz	
RAM		1.7 Kbytes	
Wakeup		+15 and via CAN	
CAN bus characteristics			
Baud rates		Selectable: 125 / 250 / 500 / 800 kb/s and 1 Mb/s	
Protocols			
		Free configurable / programmable (e.g. SAE J1939, etc.)	
Hardware protocol		CAN V2.0a / CAN V2.0b	
CAN bus connections		1x (CAN1)	
Termination resistors		$1 \times 120 \Omega$ switchable via software	
LIN bus characteristics			
Baud rates		19.2 Kbit/s @ 40 meter bus length	
Data frame		Variable length of 1 to 8 bytes	
LIN bus connections		1 x (Master) or 16 x (Slave)	
Power supply			
Operating supply voltage range		8 - 32 V DC	
Power consumption (standby)		< 0.2 mA at 24 V	
Power consumption (operating)		< 75 mA at 24 V	
Load dump protection		120 V / 400ms	
Software			
Gating message configuration		Gate only specific messages from LIN bus to CAN bus. Gate all messages from LIN bus to CAN bus, except a specific block list (limited number of gated messages).	
Manipulated message configuration		Specific messages can be recognized and modified. Data can be copied from different messages into one or more proprietary message. Data can be limited or modified. It is possible to gate between different standards, identifiers can be modified.	
Message frequency		The message repetition rate can be modified.	
Message priority		If more than one message is used to compare or modify data into a proprietary message, the selection from incoming messages can be selected on message-priority level.	
Hardware characteristics			
Environmental protection class		IP67	
Operating temperature range		-30 to +70 °C	
Storage temperature range		-40 to +90 °C	
e.s.aga comporatio rango		Pre-compliant with Automotive directive 2004/104/EC:	
EMC specification		Radiated and conducted emission Radiated and conducted immunity Up to 200 V/m	
Connector		MOLEX MX150L Series, Part Nr. 19418 0026	
Contacts		MOLEX MX150L Series, Part Nr. 19420-0001, (1.5 - 2.5 mm²)	
Dimensions		117 x 55 x 48 mm (L x W x H)	
Pinning		Dinning	
Pinning	KI 15 (Ignition)	Pinning 7	CAN-L
1 2	KL15 (Ignition)		
3	KL30 (Battery)	8	CAN-H CAN-GND
J	KL31 (GND)	ع	CAIN-GIND

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LIN

Not assigned

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ISP-RxD

ISP-TxD