

GLE/SCB-100 Serial to CAN Bus converter

Main Features

- CAN 2.0B protocol compatibility up to 1Mbps
- Standalone operation
- Isolated ISO 11898 transceiver
- RS 232 input interface up to 115.2 kbps
- Output multiple messages
- Robust construction, small form factor
- Extended temperature range
- Wide VDC supply range

Applications

- Data Acquisition
- Automotive Research & Development
- On-road Vehicles Testing
- Test Benches
- Factory Automation
- OEM transducers manufacturers



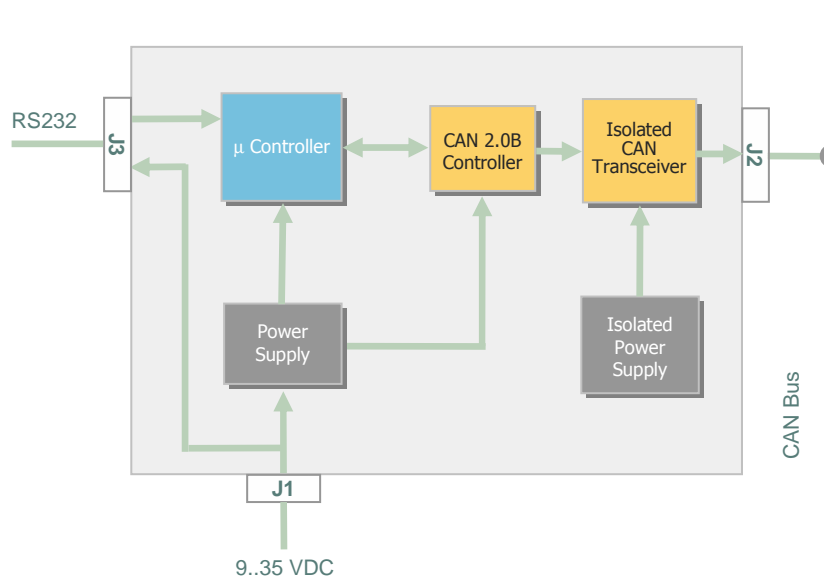
Overview

GLE/SCB-100 is a cost-effective solution designed to connect virtually any RS 232 capable device to a CAN Bus, its operation is completely standalone and do not need to be connected to a PC. This unit includes a powerful

microcontroller to synchronize and parse the incoming RS 232 data stream and a CAN 2.0B controller to send converted messages to CAN Bus with a bit-rate up to 1Mbps. CAN Bus interface is isolated to avoid ground loops and it is fully

compatible with the ISO 11898 standard. GLE/SCB-100 offers a robust construction in a small aluminum enclosure as well a wide operating temperature range

Block Diagram



This product is intended for data measurement and testing purposes, it must not be used in applications whose failure to perform can be expected to cause damages to properties and/or persons and/or injury to human life. Due to continuous developments, specifications are subject to change without prior notice.

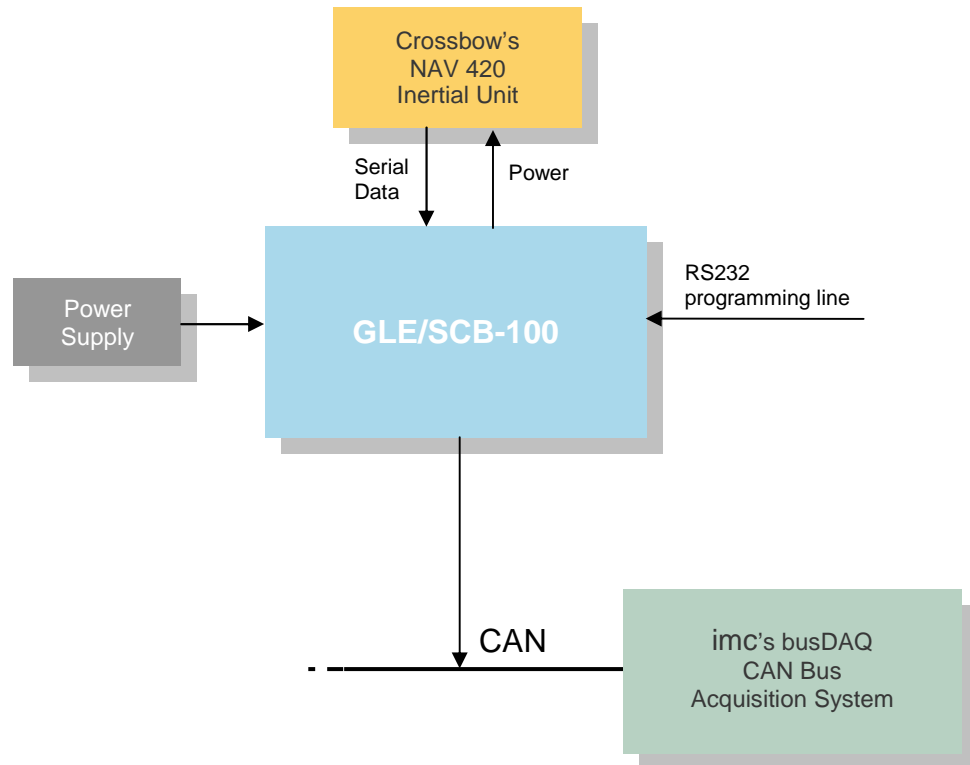
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Application Example

GLE/SCB-100 can be programmed by user in order to support different asynchronous serial protocols sent from different devices, such measurement transducers or systems (GPS receiver, Inertial Systems, Pressure, Load, Displacement sensors ...).

The user programs via RS 232 the following Can Bus parameters: bit-rate, data frame format (standard 2.0A or extended 2.0B) and the identifier of each message. Once it is programmed, the setup is automatically loaded at power up and this unit runs as a stand-alone interface box without the need of an external PC.



The configuration is simply made through RS 232, by an ANSI terminal emulation software (e.g. standard Windows HyperTerminal).

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GLE/SCB-100
Ver 1.0 25/01/07

(1) Set RS232
(2) Set CAN Bus
(3) Set CAN msgs
(4) Load parameters
(5) Save parameters
(6) Run
  
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Technical Specifications

Input interface	RS 232 up to 115.2 kbit/s. Standard Firmware handles single binary packet (*)
Input connector (J3)	DSUB 15 pin Socket (it also provides power supply to the RS 232 device directly derived from the input power connector).
Output interface	Isolated CAN 2.0B 1Mbit/s ISO 11898
Output connector (J2)	DSUB 9 pin Plug
Output messages	up to ten CAN messages
CAN Bus	SJW=1, Sampling point 75%, single sampling
Status indication (LEDs)	Power on, RS 232 sync OK and CAN TX activity
Operating Temperature Range	-40...+85°C
Power supply (J1)	9...35 VDC, 0.8 W
Power supply connector	TRIAD 01, 3 pin plug
Mechanical Construction	EMI shielded aluminum enclosure
Dimensions	82 x 32 x 70.4 mm (W x H x D) approx
Weight	Approx 160 grams (excluding mating connectors)

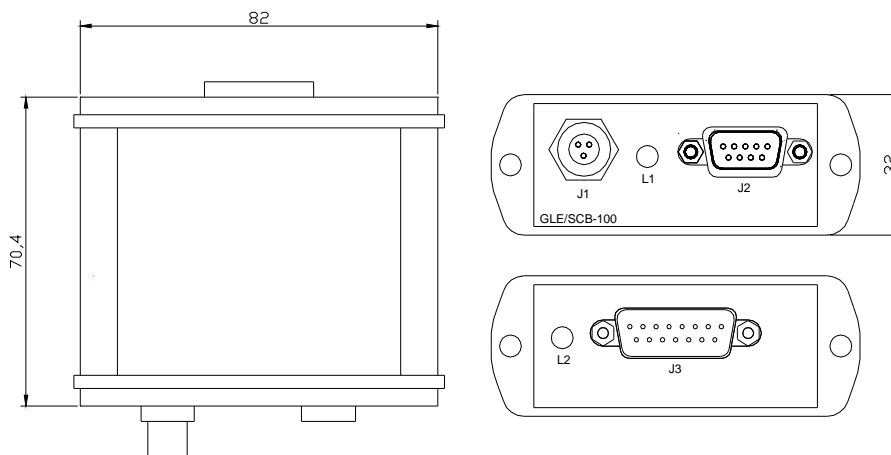
(*) Please contact factory for different RS 232 protocols.

Options & Accessories

Mating connectors		Included
Power supply cable	2 meters with banana plugs	Included
Programming cable	2 meters	Included
External power supply, wall mount	Input 110-230VAC - output 12VDC	Option
Custom cabling harness for MEMSIC 400, 420 or 440 series inertial units	Length to be specified	Option
Mounting Flanges		Option
RS 422 input instead of RS 232 input		Option

GLE/SCB-100 HW and SW can be factory customized to meet various OEM necessities.

Mechanical Dimensions (mm)



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