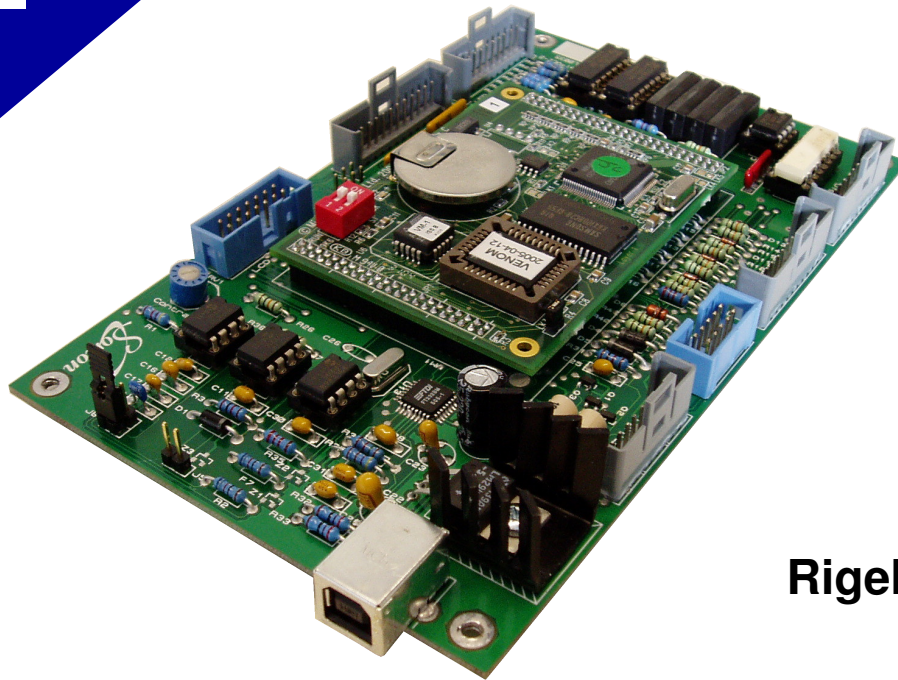




# RIGEL-VCI 2

SEL0035



## Rigel-VCI 2

The Sorion **Rigel-VCI 2** (Versatile Communications Interface) is a single board microprocessor that is specifically designed for the testing of bus based vehicle systems and sub-systems. It can operate as a standalone unit, or as a peripheral to a PC/PLC based system.

The **Rigel-VCI 2** has an integrated CAN controller, LIN Bus / K Line interfaces and a number of discrete I/O ports allowing integration into external systems or for pushbuttons and LEDs in standalone deployments. The unit has a USB port for uplink connection to a computer system as well as an alphanumeric LCD interface for user interaction or status.

The **Rigel-VCI 2** is designed to be powered from the vehicle or sub-assembly under test and typically consumes less than 100mA, or can be powered via the USB connection.

The **Rigel-VCI 2** is a member of the Sorion **Rigel** family which is based on a 16 bit processor. It has an embedded real time operating system (RTOS) and an inbuilt multitasking high level control language environment.

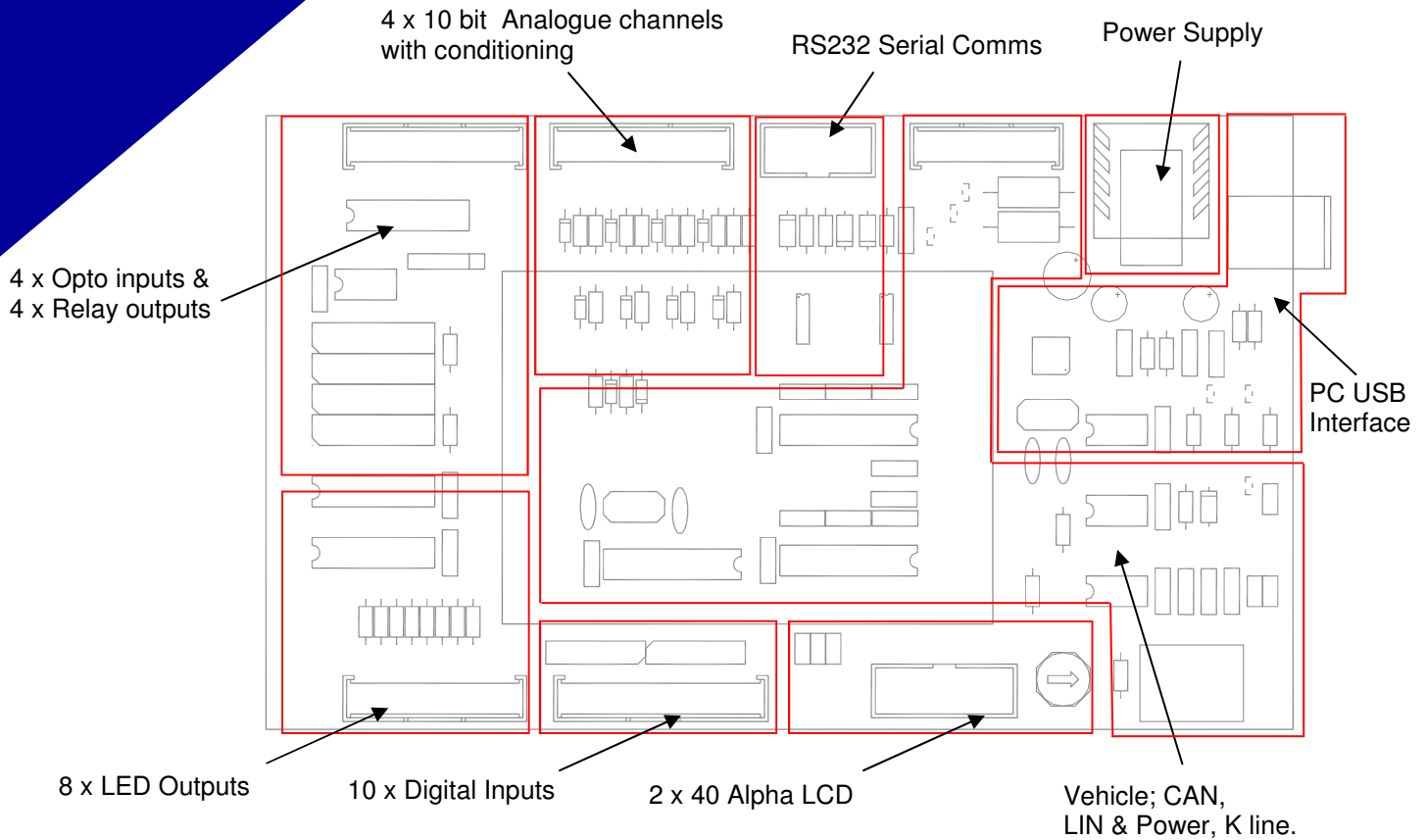
The flexibility of the **Rigel** environment allows for significant local real time processing and storage of communications data thereby simplifying control applications at a higher level.

Sorion can supply **Rigel-VCI 2** cards to customer specific build level, thus allowing the most cost effective integration possibilities.

**Rigel-VCI 2**s are currently deployed in a number of automotive assembly and test projects with some of the world leading luxury vehicle manufacturers.



Typical CAN Application



All **Rigel** systems are programmed in a high level control language that has been developed for real time applications.

Key features of the programming language are:-

- High Level - many built in device objects
- Multi-tasking
- Block structured
- Simple Syntax
- Floating-point arithmetic
- Arrays, Macros, Pointers
- Filing System
- Applications downloaded to Flash in situ
- Low cost PC development environment

For further information see the datasheet on the **Rigel** Programming Language.

Parameter	Specification
Processor	Hitachi H8S 16MHz
Memory	512KB Flash 128/512KB Battery RAM Up to 8KB EEPROM
Real Time Clock	Option
Serial Ports	2 off RS232C
USB Port (in lieu of 1 RS232)	Up to 500KBaud
CAN Interface	CAN2.0B up to 500KBaud
LIN Interface	Fully Compliant LIN1.3
K Line Interface	Up to 20,000 Baud
Digital Inputs (Opto)	4 off 12v or 24v dc
Digital Outputs (Relay)	4 off @ 1 Amp < 50v dc
LED Drivers	8 off @ 25mA
Analogue Inputs (10bit)	4 off 0 - 20v
Analogue Outputs (8bit)	2 off 0 - 5v
Pushbutton Inputs	10 off TTL
LCD Interface	Alpha up to 2 x 40 Chars
Power Supply	8 - 15 v dc @ 100mA (typ)
Size	175mm x 100mm

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