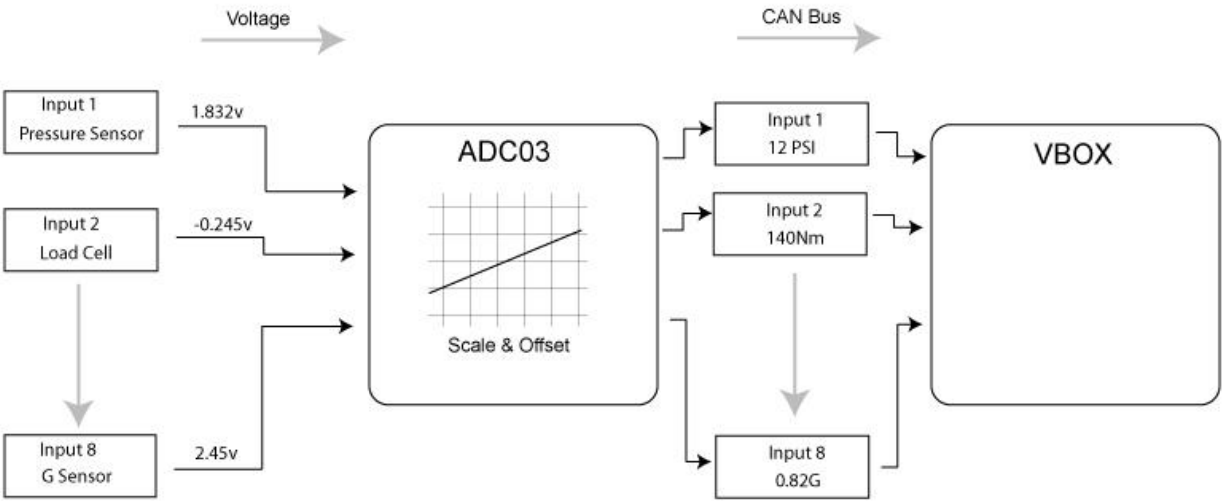
Analogue Input Module 16bit (RLVBADC03)

Racelogic's analogue input module (RLVBADC03) is an 8-channel analogue voltage input module designed for use with the Racelogic VBOX. Each channel is electrically isolated and provides bipolar voltage measurement up to ±50v with a DC accuracy of 400µV.

Isolated, regulated 5v and 12v supplies are available on the main 25-way sub-d connector in addition to a supply voltage connection. Configuration software supplied with the ADC03 allows scale and offset of the voltage reading for conversion into real data.



Features

- Timer controlled transmission or polled response
- Wide voltage input range ±50V
- 24 bit resolution
- 0.4mV DC accuracy
- Synchronous sampling of all channels
- Bi-polar voltage input
- Internal scale + offset for conversion to real data

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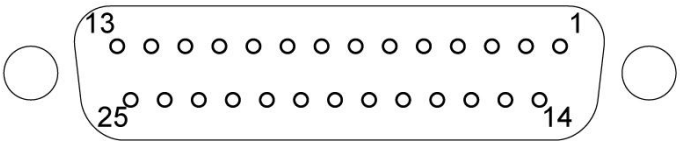
Specifications

Specification	
Number of Channels	8
DC Accuracy	400µV
Input range	±50V
Input impedance	>100KΩ
Voltage Resolution	3µV
Output voltage supply	12V Isolated 80mA, 5V Isolated 100mA
Supply Voltage	12V DC
Current	530mA

Signal Connections



25 way socket connections

Pin	Function	Pin	Function
1	A/D Channel 1 +	14	+Vbatt
2	A/D Channel 1 -	15	GND
3	A/D Channel 2 +	16	Isolated 5 Volt supply (+ve)
4	A/D Channel 2 -	17	Isolated 5 Volt supply (-ve)
5	A/D Channel 3 +	18	Isolated 12 Volt supply (+ve)
6	A/D Channel 3 -	19	Isolated 12 Volt supply (-ve)
7	A/D Channel 4 +	20	GND
8	A/D Channel 4 -	21	GND
9	A/D Channel 5 +	22	GND
10	A/D Channel 5 -	23	A/D Channel 8 -
11	A/D Channel 6 +	24	A/D Channel 8 +
12	A/D Channel 6 -	25	A/D Channel 7 -
13	A/D Channel 7 +		