

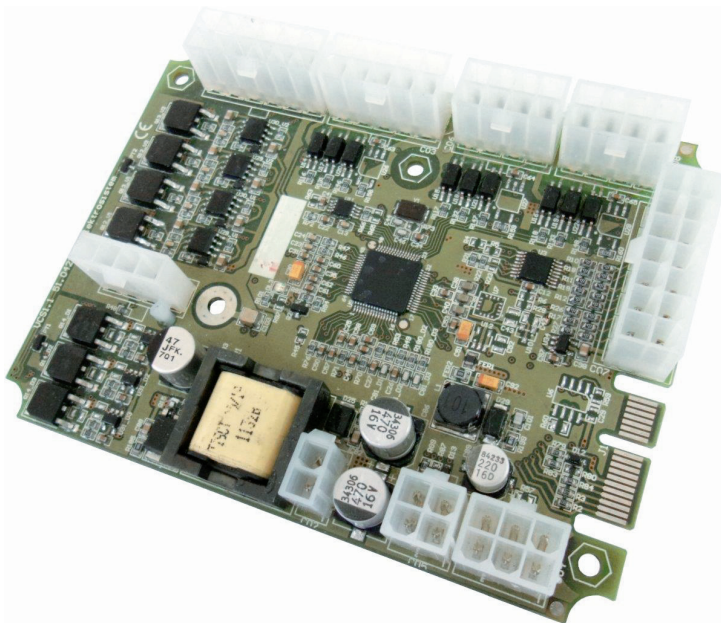


elektrosistem



VCS1

MULTIFUNCTION CARD



Simply intelligent

VCS1 (Vehicle Control System) Multifunction Card is a universal product designed to control sophisticated applications including many devices.

A user-friendly configuration software makes the product fully customizable, to adapt the card to various solutions.

Flexibility

Many inputs and outputs guarantee the interfacing with many different devices that can be connected to the multifunction card :

- Possibility to control 2 ON/OFF proportional hydraulic solenoid valves with single or double solenoid. Analogue, digital or CAN control signals can be used.
- PWM control for 3 loads.
- 3 separated galvanic isolated sections with 3 digital outputs.
- 3 0-5V isolated analogue outputs.
- 8 digital inputs, max. applicable voltage = battery voltage; 6 P-type inputs, 2 N-type inputs.
- Up to 5 analogue inputs.
- Possibility of 10VDC power supply for analogue transducers (potentiometer, joystick, other).
- 1 serial port for configuration, trouble shooting, to save and restore the setting
- Possibility to implement 3-axis inclinometer option.

CAN technology

The increased complexity of traditionally designed 'machine systems' forced to the development of technology platforms featuring high standards in safety, reliability, intelligence and rapidity. CAN BUS technology offers many advantages, including:

- simple wiring
- safety, reliability, and rapidity in data transmission
- 'active' control of the machine system



PRACTICAL NOTES

Our VCS card was designed to be combined to an intelligent system to make all machine operations automatic. In practice, the card receives all data via CAN communication from the external system and transmits the data to the systems present on the machines. The program on the card is customized according to the options required for the machine operation and becomes property of the customer.

TECHNICAL SPECIFICATIONS

- Supply voltage: 12 - 48V.
- Operating temperature: from -25 to +40°C.
- Up to 5 0-10V analogue inputs for the acquisition of potentiometers, joysticks or other sensors.
- 2 outputs to control double effect proportional valves, max current 2A. Low frequency control (150Hz) or high frequency control (20KHz) with adjustable "Dither".
- 3 outputs with PWM control for loads with 2A max current.
- 3 groups of isolated digital outputs, each featuring 3 P-type or N-type outputs, max. current 5mA.
- 3 0-5V isolated analogue outputs. +5V external power supply is necessary.
- 6 P-type digital inputs to be controlled using the same power supply voltage used for the card.
- 2 N-type digital inputs.
- 5 0-10V analogue inputs.
- 10V max 25mA power supply for pots, joystick, and other devices (on request +5V option).
- Battery reverse polarity protection.
- Protection against output disconnection, overload or short circuit.
- Overtemperature protection for the card.
- Self-diagnosis and fault LED on the card (remote LED on request).
- 1 serial port for configuration and troubleshooting.
- 1 CAN BUS port to communicate with other devices.

Custom Hardware and Software options.

DIMENSIONS AND FIXING HOLES

