

PRODUCT SHEET

# FCEV Vehicle Control System

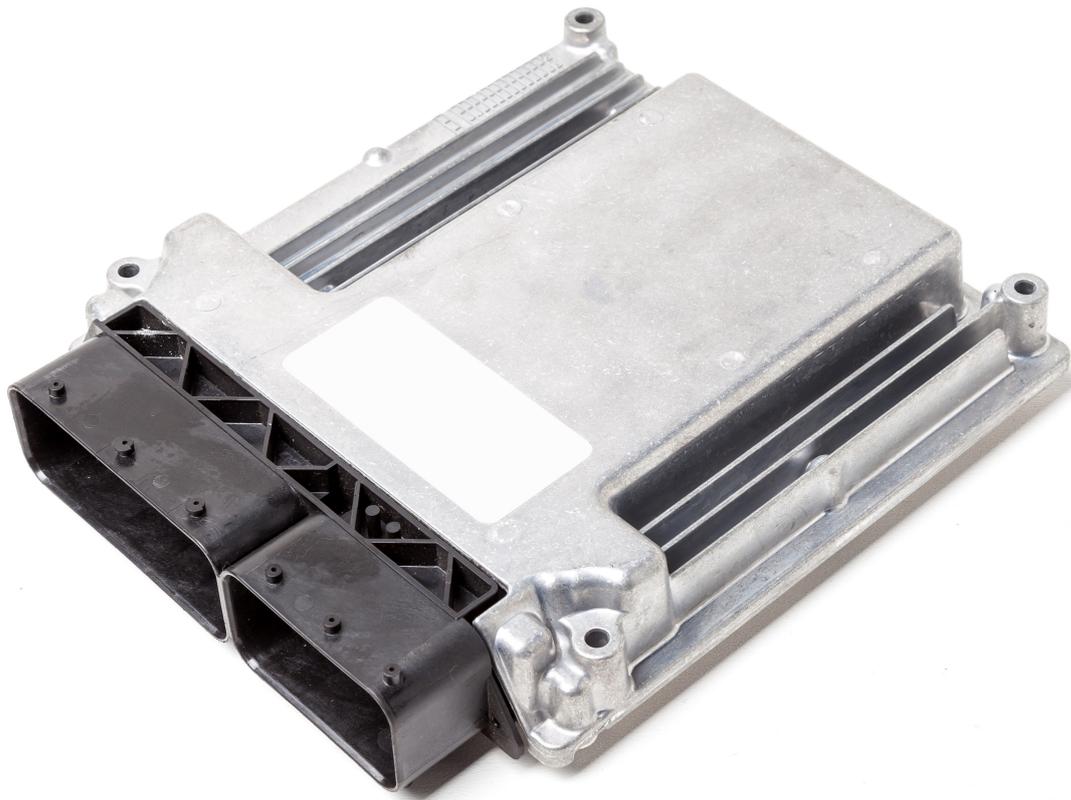
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## OVERVIEW

The Viritech Vehicle Control System provides a complete vehicle control solution for fuel cell vehicles. It is available as a hardware/software solution, or as a Simulink package for integration into a suitable controller and provides support for Tri-Volt™ energy management, cooling control, fuel cell control, HVIL, torque control, BMS integration and many other critical vehicle functions. Integration support and custom strategy development can be provided by Viritech engineering services allowing the controller to be optimised for specific applications including production vehicles.

## KEY POINTS

- Complete FCEV Control Solution
- Available As Software Or Hardware
- Includes Tri-Volt™ Energy Management Capability
- Advanced HVIL and Torque Control



Example Simulink Compatible Hardware



View this product on our website at [www.viritech.co.uk/vcs](http://www.viritech.co.uk/vcs)

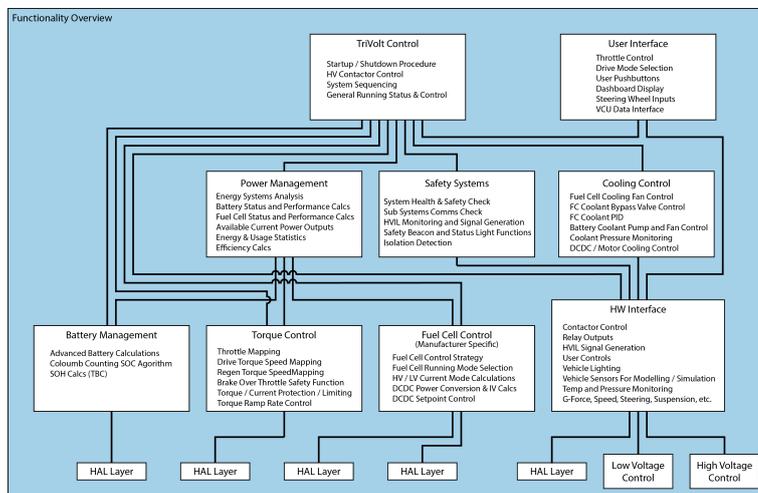
## PRODUCT DESCRIPTION

The Viritech Vehicle Control System provides a complete vehicle control solution for fuel cell vehicles. It is available as a software or hardware product and provides support for Tri-Volt™ energy management, cooling control, fuel cell control, HVIL, torque control, BMS integration and many other vehicle functions.

The Vehicle Control System is capable of meeting all systems management requirements for a single fuel cell vehicle allowing for rapid build and deployment of prototype or development vehicles.

Available as a Simulink package for integration into a suitable controller or as a hardware component ready to integrate. Integration support and custom strategy development can be provided by Viritech engineering services allowing the controller to be optimised for specific applications including volume production applications required to meet ISO 26262 standards.

## TECHNICAL DRAWING



## Technical Information

General Control Strategies	4 Modules
Power Management	6 Modules
Safety Systems	5 Modules
Cooling Control	6 Modules
Battery Management	3 Modules
Torque Control	6 Modules
Fuel Cell Control	5 Modules
HW Interface	8 Modules
Supported Controller Hardware	Simulink Compatible
Controller Minimum Analogue Inputs	17
Controller Minimum Temperature Inputs	6
CANBus Minimum Networks	3
Minimum Digital Inputs	4
High Voltage Safety	Full Interlock Implementation with Isolation Detection.
Torque Request Input	Yes
OEM Part Numbering	Yes
Vehicle Communications	CANBus
Local Market Manufacturing Option	Yes
ASIL Compliance	Only as part of a functional safety case and homologation program.
IP Rating	Depends on host controller.
Available Volumes	1 to 000's

## PRODUCT ORDERING

Please contact [sales@viritech.co.uk](mailto:sales@viritech.co.uk) to discuss your system and vehicle integration requirements for this product.