

VEHICLE CONTROL UNIT : VCU

PowerSwap introduces Vehicle Control Unit for Electric Vehicles in the segment of 4 Wheeler Passenger and Commercial. It will act as communicator between BMS, MCU, Charger, Cluster, etc. Also it provides better integrated control of the vehicle. Any changes in the individual components can be catered through VCU software thus limiting the cascading impact.

Features like Configuration Management, Event Logs, Diagnostics, Firmware Update are available with supporting Tools. It is a configurable hardware with driver layer support. User defined (User IP) algorithms implemented in C / Auto coded through MATLAB can be integrated to realize VCU functionality.

Application	EV 4 Wheeler Passenger and Commercial
VCU Features	<ul style="list-style-type: none"> - Operating Frequency : 112 MHz - User Program Memory : 1 MB - User Configuration Memory : 8 kB - User RAM Memory : 64 kB - Retentive Memory (NVM) : 4 kB - Digital Outputs (LSO) : 16 - Digital Inputs : 16 - Analog Input : 11 - PWM Outputs : 03 - PWM Inputs : 03 - Number of CAN Port : 03 - H Bridge : 02 - Sensor Interface : 03 - VCU Wakeup on Active High Signal
Communication	CAN 2.0 B
Diagnostic	Using dedicated Diagnostic Tool
Hardware Details	EMI EMC as per AIS 004 Part3
Supported Tool Chain	<p>Firmware Download/ Configuration Read & Write / Event and Freeze Frames Read Tool (CEEPL)</p> <p>CEEPL provides interface to Log / Monitor live data using CEEPL diagnostic tool chain.</p>

