



# VCU'S, VDM AND PDU FROM AEM EV

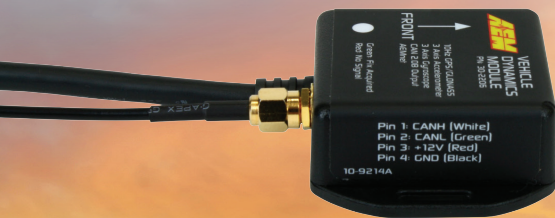
## Vehicle Control Unit VCU200/300

AEM's VCU provides supervisory control of all critical vehicle systems including inverter, pre-charge resistors, high voltage contactors, DC/DC converter, on-board charger, and battery management system.



	VCU200	VCU300
<b>General</b>		
AEM Part Number	30-8000	30-8100
User Interface	AEMcal	AEMcal
Pin Count	80	196
Clock Speed	64 MHz	200/260 MHz
Motor Control	1*	4
Inverter Control	1*	4
CAN Buses	4	3
<b>Inputs**</b>		
Analog Inputs	13	31
Digital Inputs	15	8
Frequency Inputs	4	5
<b>Outputs**</b>		
Low Side Outputs	12	39
High Side Drivers	6	2
H-Bridges	N/A	3
1/2 Bridges**	4 LS PWM or 4 HS Drivers	N/A
Main Power Relay Driver	N/A	1
<b>Environmental</b>		
Enclosure Rating	IP6K7 (Waterproof)	IP6K9K (Waterproof)
Enclosure Material	Aluminum	Aluminum
Operating Voltage	9-16V DC	9-16V DC
Overvoltage Protection	16V DC	16V DC
Dimensions	210 x 137.5 x 37.2mm	181 x 231 x 50mm
Weight	1.2 lbs (.06kg)	2.2 lbs (1.1kg)
Operating Temp Range	-40c to +105c	-40c to +105c

## Vehicle Dynamics Module (VDM)



### Features

- 3-Axis Accelerometer
- 3-Axis Gyrometer
- 10Hz GPS w/ IP67-Rated Antenna
- AEMnet CAN bus Connector

## Power Distribution Unit (PDU)



### Features

- 8 Channel CAN driven slave to VCU
  - 4x: 20 amp
  - 4x: 10 amp
- AEMnet CAN bus Connector