Capabilities

- 32-bit Freescale microprocessor
- 2 CAN interfaces
- Multiple digital / frequency / analog / RTD / thermistor inputs
- Multiple digital / PWM outputs
- Protection against double and reverse battery, load dump, and overcurrent on outputs
- Open / short circuit detection on outputs
- 2 high current H-Bridges

Benefits

- Designed to allow for circuit customization to meet specific needs
- Same proven hardware can be used for prototypes and production
- Simulink® or C API are available to develop your application
- Cost effective support for fleet trials of new systems

Applications

- Diesel exhaust after-treatment
- ABS / TCS / ESC
- Hybrid vehicle control integration
- Torque management
- Aerodynamic actuator control

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OPEN ECU® By Pi Innovo

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info@pi-innovo.com

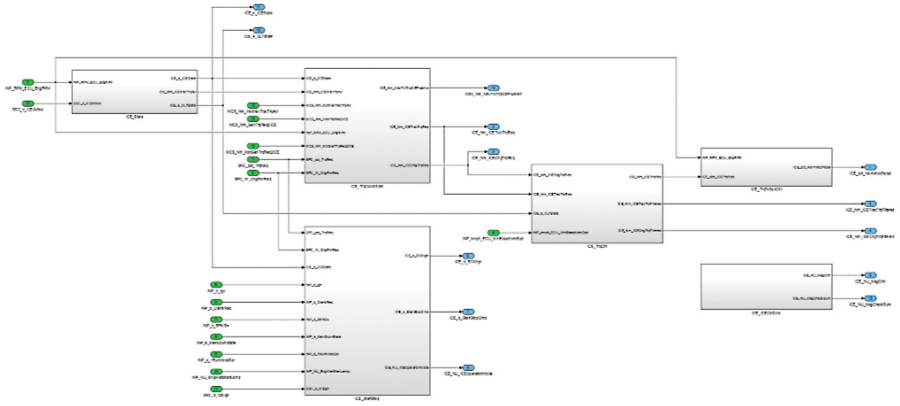
Specifications

MICROPROCESSOR	
Processor	Freescale MPC5534
Secondary Processor	Optional
Clock Rate	80Mhz
Code Space	up to 768KB
RAM Space	832KB
Calibration Space	256KB
POWER	
Supply Voltage	6.5V to 36V
Standby Current	0.1mA @ 12V
Sensor Supply	2 x 5V / 250mA
COMMUNICATION	
High Speed CAN 2.0	2x
INPUTS	
Analog	6
RTD	7
Angular	1
Frequency / Digital / Analog	6
FEPS	1
OPTIONAL CAPABILITIES	
Wake on CAN	1
Daughter card slot available to expand module capabilities.	

COMPATIBILITY	
Vibration	Severe (on or near suspension mounting points)
PHYSICAL	
Dimensions (mm)	228 x 158 x 50
Weight	1.1Kg
Connector	46 pin
Enclosure	Sealed Aluminum w/Gore-tex® vent
Location	Chassis mount
Operating Temperature	-40°C to 105°C
Environmental Protection	IP67
OUTPUTS	
H-Bridge w/ Current Feedback	2 x 8A
High Side Switch (non-boosted)	1 x 20A
Peak / Hold Low Side Injector	3 x 5A / 2A
PWM Low Side / Injector	1 x 8A
PWM Low Side / Current Feedback	1 x 10A
PWM Low Side / Current Feedback	1 x 0.5A
Spark Low Side	1 x 8A

Application Control Strategies Available in Simulink for Development

- Torque and Speed Based Engine Control Strategies
- Hybrid and Electric Vehicle Supervisory Control Strategies



www.pi-innovo.com | USA: +1 734 656 0140 | info@pi-innovo.com