



M220

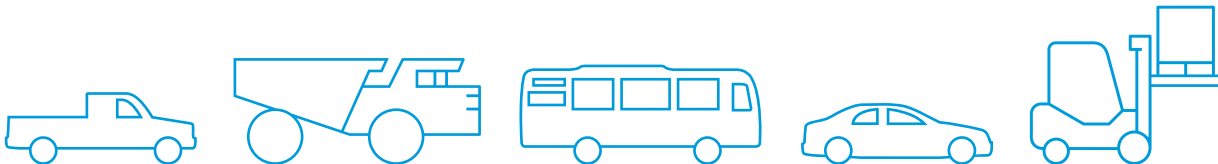
OpenECUTM Multi-Purpose Controller

Capabilities

- Fuel injectors and smart coils
- Current and voltage monitors on many output channels
- Thermal trip monitors on certain channels
- H-Bridge and high current actuator control
- Configurable analog and digital I/O
- High speed CAN channels



Ideal for light, commercial and off-highway vehicles.



M220

OpenECU™ Multi-Purpose Controller

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

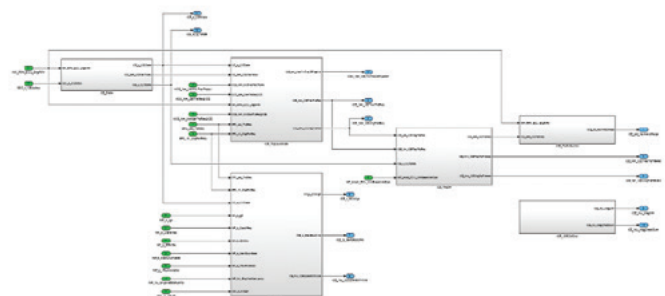
Applications

- Alternative fuel system control (e.g. CNG/LPG/LNG)
- Low cylinder count engines (up to 4)
- Hybrid supervisory control
- Diesel pump control
- Suitable for OBD compliant systems

Specifications¹			
Microprocessor		Compatibility	
Processor	Freescall MPC5534	Vibration	6g random RMS
Clock Rate	80Mhz	Physical	
Code Space	up to 768KB	Dimensions (mm)	155 x 115 x 46
RAM Space	832KB	Weight	520g
Calibration Space	256KB	Connector	46 pin
Power		Enclosure	Aluminum
Supply Voltage	7V to 32V	Location	Chassis mount
Standby Current	0.25mA @ 12V	Operating Temperature	-40°C to 105°C
Sensor Supply	1 x 5V / 250mA	Environmental Protection	IP67
Communication		Outputs	
High Speed CAN 2.0	2x	H-Bridge	1 (2 pins) - 5A
Inputs		High Side Switch	1 x 15A
Analog	12	PWM Low Side	2 x 100mA
Differential VRS	1 x (2 pins)	PWM Low Side	2 x 250mA
Single Ended VRS	2	PWM Low Side	6 x 2A
Frequency	1	Low Side Injector	1 x 15A / 5A (software configurable)
Digital	4		
FEPS	1		

Application Control Strategies Available in Simulink for Development

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



OpenECU.com

Application Policy

Capacity ratings, features, and specifications vary depending upon the model and type of service. Application approvals must be obtained from Dana; contact your representative for application approval. We reserve the right to change or modify our product specifications, configurations, or dimensions at any time without notice.

Dana Plymouth Technology Center

47047 West Five Mile Road
Plymouth, MI 48170
Tel: +1 (734) 656 0140 Fax: +1 (734) 656-0141
OpenECU.com

