## CM0212 Smart Node Controller



The smart node CAN controller enables a distributed control architecture in mobile vehicles. J1939 CAN support is available for network control and messaging.

This is a general purpose compact mobile system controller suitable for applications including valve, pump, fan and pneumatics control. For more application details please contact your Parker representative.

General					
Weight	0.21 kg				
Operating Temperature	-40°C to +85°C				
Storage Temperature	-40°C to +85°C				
<b>Electrical</b> System Voltage	12 V				
Operating Voltage	9 V to 16 V				
Micro Core Capabilites Micro Type Flash Size RAM Size	STM32F407 (Cortex M4 based) 1024 kB 192 kB				
EEPROM Size	8 kB				
Communication Channels CAN (SAE J1939)	1				
Configurable Inputs* Analog Inputs	Maximum of 2 inputs Input Sensor: Analog and/or Frequency				
Outputs High Side Outputs - PWM capable Max Continuous Load Max PWM Frequency Low Side Outputs Max Continuous Load +5V Sensor Supply	8 2.5 A 250 Hz 4 2.5 A (with current sense) 1 (5 V at 75 mA max current)				
Maximum Module Current	10 A				



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Mechanical Enclosure Material	Injection Molded Plastic with potted electronics				
Connector Type	1 x 20 pins Molex MX150, Key B				
Mounting Method	Two 1/4" or 6mm bolts				
Software Software Environment Platform Framework Software Development Kit (SDK) Application Software	Provides the application developer with the drivers required to access the hardware Provides the interface between the platform framework and the application software Matlab Simulink (can be developed by the OEM or Parker)				
Configurable Software	Simple I/O configuration is provided via CAN communication				
Environment Specifications (based on) Sealing	EP455, MIL-STD-202G, EN7691, ISO 10605, and ISO 14982 IP69K				
Over Voltage	26V				
Ordering Ordering Part Number	1101002ECD				

\* - depending on PCB stuffing options, all features may not be available

Pin Number	Function						
1	V Batt 12 V	6	Sensor Ground	11	HS Output 3	16	HS Output 8
2	Ground	7	Input 2	12	HS Output 4	17	LS Output 9
3	CAN Lo	8	Input 1	13	HS Output 5	18	LS Output 10
4	CAN Hi	9	HS Output 1	14	HS Output 6	19	LS Output 11
5	5 V Regulated Sensor Supply	10	HS Output 2	15	HS Output 7	20	LS Output 12



38.9 S/N LABEL

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