CM2115

Controller Module

General	
Weight	1.0 kg
Operating temperature	–40°C to +85°C
Storage temperature	–55°C to +125°C
Electrical	
System voltage	12 V and 24 V
Operating voltage	6 V to 32 V
Micro core capabilities	
Micro type	Freescale MPC5534 @ 80 MHz
Flash size [1]	1 MB
RAM size [1]	128 kB (64kB internal + 64kB external)
EEPROM size	32 Kbyte
Communication channels	
CAN channels (J1939 compliant)	2 (1 with “Wake on CAN” functionality)
Inputs	
Digital inputs	4 x programmable active high or active low 5 x programmable active low 2 x active high “wakeup” inputs
Analog inputs	8 (2 x amplified, 6 x attenuated)
Frequency inputs	2 (1 x AC coupled, 1 x DC coupled)
Maximum frequency	10 kHz
Outputs	
High side outputs	6 x 10 A 2 x 5 A 2 x 5 A with accurate current sensing 2 x 2.5 A with accurate current sensing
Maximum PWM frequency	500 Hz
Low side outputs	1 x 2.5 A with accurate current sensing
Maximum PWM frequency	1500 Hz
Solid state relay outputs	2 x 1 A
Reference voltage (sensor supply)	1 x selectable 5 V/8 V @ 300 mA
Maximum module current	80 A
Status LEDs	Not on standard unit
Mechanical	
Enclosure Material	Plastic and aluminum
Connector	4 x 12 pins, 3 x 1 pins, 51 pins total
Type	Deutsch DT series
Mounting Method	Four 1/4” or 6mm bolts

1) total product memory, not all is available to the application.

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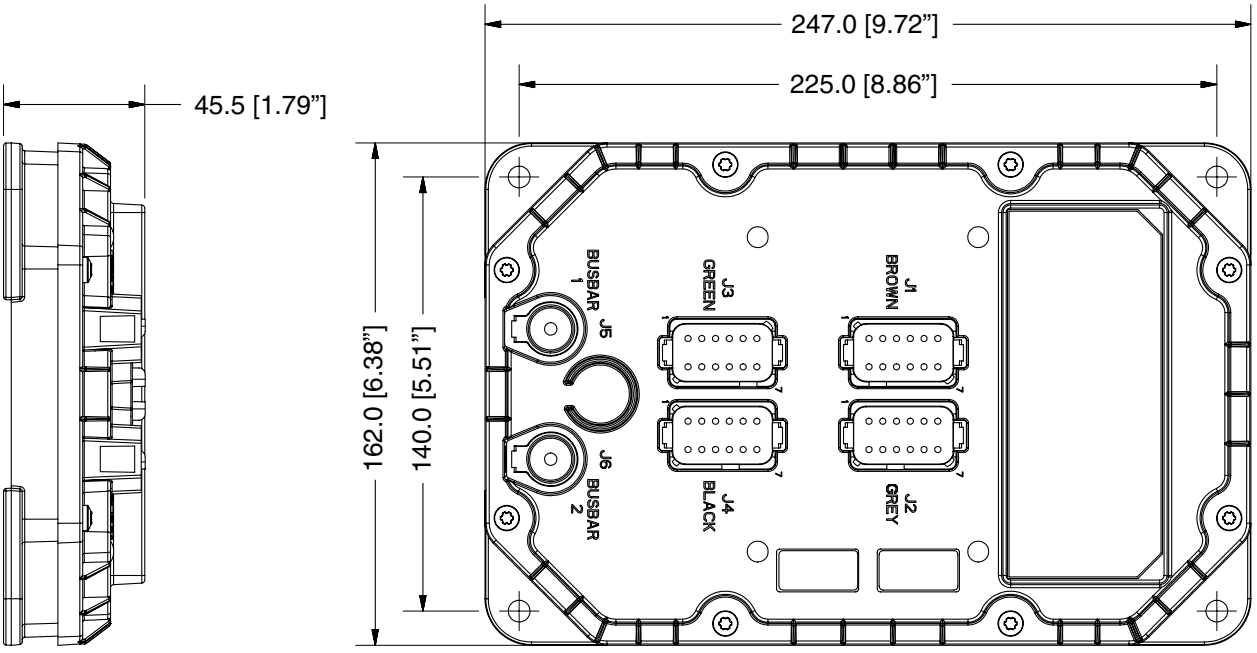
Software	
Software environment Platform framework	Provides the application developer with the drivers required to access the hardware
Software Development Kit (SDK)	Provides the interface between the platform framework and the application software
Application software	Matlab Simulink (can be developed by the OEM or Parker)
Environment Humidity (soak)	ASAE EP455_Feb_2008_section 5.13.1
Humidity (cyclic)	ASAE EP455_Feb_2008_section 5.13.1
Dust/Water Ingress Protection	IP66, 60529 IEC Edition 2.1 2001-02 section 13.6.1 and section 14.2.6
Salt spray	J1455 (Aug 94) Section 4.3.3
Vibration, shock	ASAE EP455_Feb_2008_section 5.14.1
Vibration, random	SAE J1455_Jun_2006_ section 4.10.4.2 Figure 10
ESD	ANSI/ASAE EP455_Feb_2008_Section 5.12.2
EMC Susceptability Emissions	 ANSI/ASAE EP455_Feb_2008_Section 5.16.3/ISO 14982/SAE J1113-41 ISO 14982/SAE J1113-41
Ordering Ordering part number	 0935024ECD

Dimensions



units = mm
[inch]

WARNING - California Proposition 65

This product can expose you to chemicals including NICKEL COMPOUNDS which is known to the State of California to cause cancer.
For more information go to www.P65Warnings.ca.gov

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