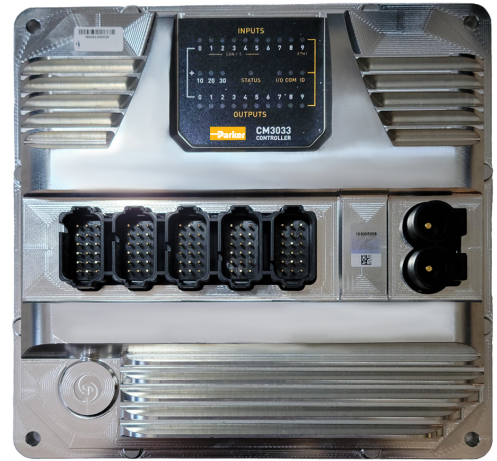


CM3033

Controller Module



General	
Weight	2.3 kg
Operating Temperature	-40°C to +85°C
Storage Temperature	-40°C to +85°C
Electrical	
System Voltage	12 V and 24 V
Operating Voltage	9 V to 32 V
Micro Core Capabilities	
Micro	Tri-Core Micro 32bit
Flash Size	8MB (plus 2MB extended)
RAM Size	2.7MB
FRAM Size	32kB
Maximum Frequency	300MHz
Visual Diagnostics (LEDs)	Address, Inputs/Outputs, Error States, CAN Buses and Ethernet
Communication Channels	
CAN (SAE J1939)	5 CAN 2.0B (all with wake-on CAN) 250K/500K/1M Baud (option: 125K, FD to 2M)
Ethernet	100BASE-T1 (diagnostics)
Inputs	30 inputs with maximum combination of 62 inputs, configurable
Analog Inputs	Up to 30 (16 programmable 0-5VDC, 4 scalable resistance, 10 scalable voltage)
Digital Inputs	Up to 30 (4 power control, all programmable active high or low)
Outputs	
High Side	10 - Up to 5A, up to 500Hz PWM, with current sense 10 - Up to 2.5A, up to 500Hz PWM, with current sense
High/Low Side	6 - Up to 10A, up to 500Hz PWM High Side, with current sense 6 - Up to 10A, up to 500Hz PWM Low Side, with current sense Configurable to 6 - Half Bridges or 3 - Full Bridges <i>All high side and low side outputs can be used as digital inputs. Current sense accuracy varies by output.</i>
Sensor Supply	1 - 5 VDC or 8 VDC programmable, 1A regulated
Maximum Module Current	50A
Mechanical	
Connector Type	Deutsch DT harness connectors, Deutsch DTHD power connectors
Enclosure Material	Aluminum
Mounting Method	4x 1/4" or 6mm Bolts



ENGINEERING YOUR SUCCESS.

Software	
Environments Supported	Codesys V3.5.17.X and greater (C and Matlab pending)
Environment	
EMI	
Susceptibility	ISO 11451-2 / ISO 11452-4 / EN 61000
Emissions Conducted	4-8 CISPR 25
Transients	ISO 7637-2 / ISO 16750-2
ESD	ISO 10605
Mechanical	
Random Vibration	BS EN7691: 1994 (Severity Level 3) ASAE EP455
Shock	& IEC 68-2-29
Climate	
Dust/Water Ingress	IP67 and IP69k
Protection Salt Spray	MIL-STD-202G Method 101E Condition A ASAE
Humidity	EP455, Soak and Cycle
Markings/Approvals	
CE	2014/30/EU, EMC Directive
E-mark	ECE Regulation 10:2019 Addendum 9, Rev. 6
Ordering	
Ordering Part Number	Contact Parker EMC

Dimensions

