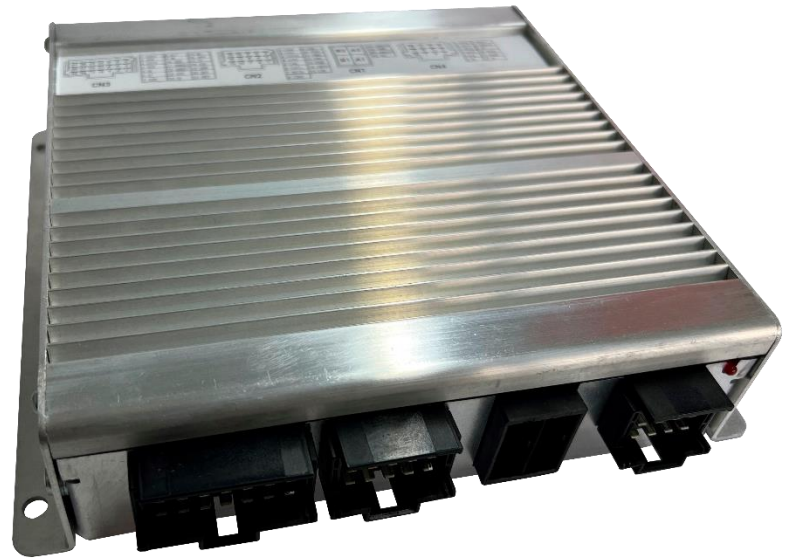


MODULE M1812



FEATURES

- 18 OUTPUTS AND 12 INPUTS
(all of them PWM ports)
- USB update
- Complies with International standards homologation

INPUTS

All multipurpose inputs can be runtime configured as analog inputs, negative digital inputs, positive digital inputs or temperature sensor inputs.

OUTPUTS

All outputs can be runtime configured as analog inputs, configurable as PWM or digital (1 frequency setting/group), externally combined to form half or full H-bridges, have precision load current measuring (12 bits, no multiplexing) and are protected against short circuit events.

CONFIGURATION

The node can be fully programmable and debugged through a configuration tool (parameters, diagnostics, logics).

MODULE M1812

TECHNICAL DATA

Electrical Properties	
Current Consumption	100 mA @ 28 V
Loads total current limit	90 A (with 8 AWG minimum nominal section cable)
Supply voltage range	9 V to 36 V
Interfaces	
CAN 2.0B	2 (primary, secondary optional)
RS 485	1 (optional)
LIN	1 (optional)
Inputs	12 (11x multipurpose inputs, 1x pulsed wave input)
Outputs	18 (10x highside 5 A, 2x highside 8 A, 2x highside 20 A, 4x lowside 12 A)
Mechanical Properties	
Maximum External Dimensions	Length x Width x Height (L x W x H) 210 x 200 x 50 mm
Housing Type	All structure parts are aluminum with 1060, except for screws and electronic components for mounting
Environment	
Operating Temperature	-40 °C to 70 °C
Standards	
ISO 16750	Yes (storage and operation temperatures, vibration, mechanical and thermal shock, thermal and humidity cycle, salt spray, electrical loads, IP31)
ISO 3795	Yes (flammability)
ISO 7637	Yes (electrical transients)
CISPR25	Yes (irradiated and conducted disturbances)
ISO 11452	Yes (irradiated and conducted immunity)
ISO 10605	Yes (electrostatic discharge)
SAE J1939	Yes (CAN)