

BCM203

Body Control Module

For Commercial Truck Electronics

Version: 1.0 | Date: April 2026 | Status: Released

Key Features

- 12V/24V dual voltage compatible
- 16-channel digital input/output
- CAN bus J1939 communication
- Built-in diagnostic LEDs
- Operating temperature: -40C to +85C
- IP67 rated enclosure
- Compact size: 140 x 100 x 35mm

Technical Specifications

Parameter	Specification
Supply Voltage	12V / 24V DC (dual range)
Operating Voltage	9V to 32V DC
Quiescent Current	< 5mA @ 24V
Operating Temperature	-40C to +85C
Storage Temperature	-40C to +105C
Protection Class	IP67 (dust and water)
CAN Protocol	ISO 11898, J1939 compliant
Digital Inputs	16 channels (12V/24V compatible)
Digital Outputs	16 channels (sinking, 2A max each)
PWM Outputs	8 channels (optional)
Communication	CAN 2.0B, 250kbps / 500kbps
Housing Material	Aluminum alloy, powder coated
Dimensions	140 x 100 x 35 mm
Weight	280g
Mounting	DIN rail or direct mounting
Connectors	Automotive grade DT series
EMI/EMC	CISPR 25 Class 5
Vibration	ISO 16750-3 compliant

Applications

- Light truck and medium-duty commercial vehicles
- School buses and transit buses
- Construction equipment and agricultural machinery
- Emergency vehicle body control systems
- Fleet management vehicle electronics
- Refrigerated truck temperature control interfaces

Typical Connection Diagram

Pin 1-2: Power Supply (+12V/+24V)

Pin 3-4: Ground

Pin 5-6: CAN_H / CAN_L

Pin 7-22: Digital Inputs (DI1-DI16)

Pin 23-38: Digital Outputs (DO1-DO16)

Pin 39-42: Sensor Power (+5V / +12V)

Pin 43-46: Analog Inputs (optional)

Note: All specifications subject to change without notice.

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