

# BCM207

## Advanced Body Control Module

For Integrated Vehicle Body Electronics & Warning Systems

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

### Key Features

- Enhanced 24-channel I/O (more than BCM203)
- Dual CAN bus (2x CAN 2.0B channels)
- LIN bus support for sensor integration
- Built-in PWM drivers for lighting control
- Extended operating temperature: -40C to +95C
- IP68 rated enclosure (higher than BCM203)
- Supports J1939 FMS truck fleet protocol
- OTA firmware update capability
- Dimensions: 160 x 120 x 40mm

## Technical Specifications

Parameter	Specification
Supply Voltage	12V / 24V DC (dual range)
Operating Voltage	9V to 32V DC
Quiescent Current	< 3mA @ 24V (lower power)
Operating Temperature	-40C to +95C
Storage Temperature	-40C to +105C
Protection Class	IP68 (dust and water)
CAN Protocol	ISO 11898, J1939 compliant (2 channels)
LIN Bus	Yes, 1 channel
Digital Inputs	24 channels (12V/24V compatible)
Digital Outputs	18 channels (sinking, 3A max each)
PWM Outputs	12 channels (lighting control)
Communication	Dual CAN 2.0B, LIN 2.0
FMS Support	J1939 FMS-B standard
Housing Material	Aluminum alloy, powder coated
Dimensions	160 x 120 x 40 mm
Weight	380g
Mounting	DIN rail or direct mounting
Connectors	Automotive grade DT/DTM series
EMI/EMC	CISPR 25 Class 5
Vibration	ISO 16750-3 compliant

## Applications

- Heavy-duty trucks and semi-trailers
- Long-haul fleet management systems
- Advanced driver assistance system (ADAS) interfaces
- Electric truck body electronics integration
- Mining equipment and heavy construction vehicles
- Military logistics vehicle electronics
- Comprehensive warning light and horn control

## BCM203 vs BCM207 Comparison

Feature	BCM203	BCM207
I/O Channels	16 digital I/O	24 digital I/O
CAN Channels	1 CAN 2.0B	2 CAN 2.0B + LIN
PWM Outputs	8 channels	12 channels
Protection	IP67	IP68
Operating Temp	-40C to +85C	-40C to +95C
FMS Protocol	No	Yes (J1939 FMS-B)
OTA Update	No	Yes
Dimensions	140 x 100 x 35mm	160 x 120 x 40mm
Target Application	Light/Medium trucks	Heavy-duty/Fleet

**Note: All specifications subject to change without notice.**

For technical support: yaapeet001@gmail.com | +86 28-6063-1386