



# MULTIFUNCTION ELECTRONIC CONTROL MODULE

## With Focus on Suspension Control

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### ADAPTABLE DESIGN, UNMATCHED PERFORMANCE

The GHSP Suspension Control Module (SCM) is the perfect solution for next-generation suspension systems. Designed for use in single or multi-valve active suspension control, the SCM offers unique embodiment for flexible mounting options, while providing precise independent control of rebound and compression damping.

The SCM boasts a versatile architecture and a comprehensive suite of input/output options. These include support for analog, digital, and PWM signals. Additionally, the SCM supports multiple PS15 channels, CAN for robust

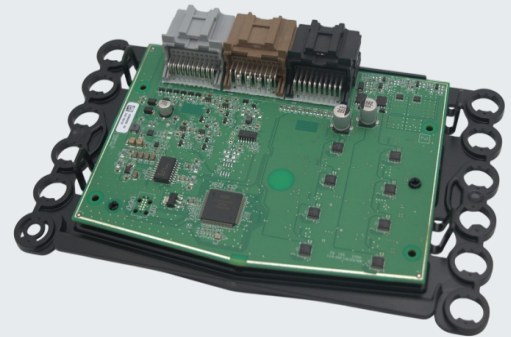
system communication and diagnostics, and up to 8 PWM solenoid outputs for control.

Expansion options are available to accommodate additional input/output requirements. These features enhance the performance of this cutting-edge control module and provide exceptional flexibility and adaptability.

Prioritization of seamlessly integrated software and safety is a crucial element. The SCM includes integrated cybersecurity functionality, following AUTOSAR compliance and earning an ASIL A safety rating. With a sealing rating of IP5K0, it provides protection against environmental conditions.

### FUNCTIONALITY

- Available up to 8 PWM Outputs for Solenoid Valve Control up to 2A with Closed-Loop Feedback
- Supports up to 4 Separate PS15 Channels each with 3 Time Slots (12 Total Sensors)
- CAN FD Communication
- Supports Multiple Inputs for Analog/Digital/PWM Sensors
- AUTOSAR Compliant
- ASIL A Safety Rating (With the Option to Include ASIL B)
- Sealing Rating - IP5K0
- Power on Ignition
- Molex Stac64 Connector(s)



### SCALABILITY

Customize Your Drive

Emphasis was placed on preserving space and functionality within the control module to ensure compatibility across vehicle lines with different calibration sets. As a result, the SCM exhibits exceptional flexibility by integrating various damping modes that provide scalability and dynamic customization. This capability is achieved through powerful software that enables multiple tunable configurations.

### ENHANCEMENTS

Extra Options for an Extra Punch

- ASIL B Safety Rating
- Supplementary Connector for Additional Inputs/Outputs
- Network Management
- Wake on CAN
- Additional Communication Options - LIN / PWM

### TAILORED MODES

Street 	Sport 	Offroad 	Snow 
Track 	Launch 	Auto 	Rock 