



Safe and Secure Articulation System with Articulation Control Unit ACU 4

Features of the Safe and Secure Articulation System

- Automotive interface connector to the externally located ACU – plug and play
- Start-up assistance at different road conditions (in particular on slippery surfaces)
- Controllability in the event of jack-knifed vehicle
- Lower wear by means of predictive damping (e.g., less tire wear)
- Situation-dependent damping for high maneuverability
- Adequate and situational regulation of driving power
- Dynamic braking requirement (XBR)

Ready to fulfill
ISO 26262
ECE-R155 - ISO/SAE 21434
ECE-R156 - ISO 24089

Features of the Safe and Secure Control unit ACU 4

- Hard- and software developed in accordance with Functional Safety Standard (ISO 26262)
- Software developed in accordance with Automotive Cybersecurity Standards based on ECE-R155 and ECE-R156 and reached through ISO/SAE 21434 and ISO 24089
- Model-based software functionality and state-of-the-art hardware platform
- Standardized CAN communication via SAE J1939
- Simplified vehicle integrability by complying with current standards of brake and engine systems
- Separate CAN interface with standardized diagnostic functionality (UDS on CAN)
- Cybersecurity realized by NXP secure CAN Transceiver and secure flash mechanism

