

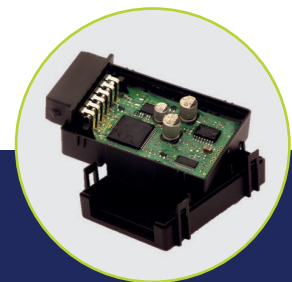
Comfort and body control units



APAGCoSyst designs and manufactures electronic control units for comfort and body features for several automotive customers. Our development is customer-centric and project specific. We design power stages based on the electrical load, safety standards, and diagnostic requirements. We understand that interfaces for input signals, sensors, and the connection to the vehicle communication network must be developed in a manner that facilitates an optimized overall system. We consider environmental conditions and EMC standards. We are equipped to test and verify electrical, climate, and mechanical conditions in our in-house lab.

We recognise that space, packaging, mounting and housing connector design constraints vary from project to project. Our experience prepares us to handle the broad spectrum of differing needs and requirements. Besides basic functions such as the control of motors, valves, and other actuators, we are familiar with diagnostics and monitoring. We understand the importance of ISO 26262 and Automotive SPICE development processes in safety critical applications.

We are experienced with the AUTOSAR standard having integrating components from the market to create many of our own modules. Our application software is model-based. We have hardware in the loop (HIL) test systems for functional testing. We are your ideal partner for your high-quality, custom comfort and body feature ECU.



Specifications

- **Communication Interfaces:**
 - LIN, CAN/CAN FD, Ethernet, FlexRay
- **Inputs:**
 - Sensors
 - Switches
 - Voltage and resistance coded
 - Hall interface
 - PWM
- **Outputs:**
 - Power stages for motors: DC and BLDC
 - Signal outputs
 - Half bridges
 - High and low side switches
 - Low, medium and high current
- **Temperature, current, and voltage monitoring**
- **Diagnostic and monitoring functions**
- **Power Stages for Motors:**
 - PWM, Full DC
- **State and control based functions / model-based development**
- **Development of safety-critical systems based on ISO 26262**
- **Long-standing AUTOSAR experience**
- **Development in accordance with Automotive SPICE**