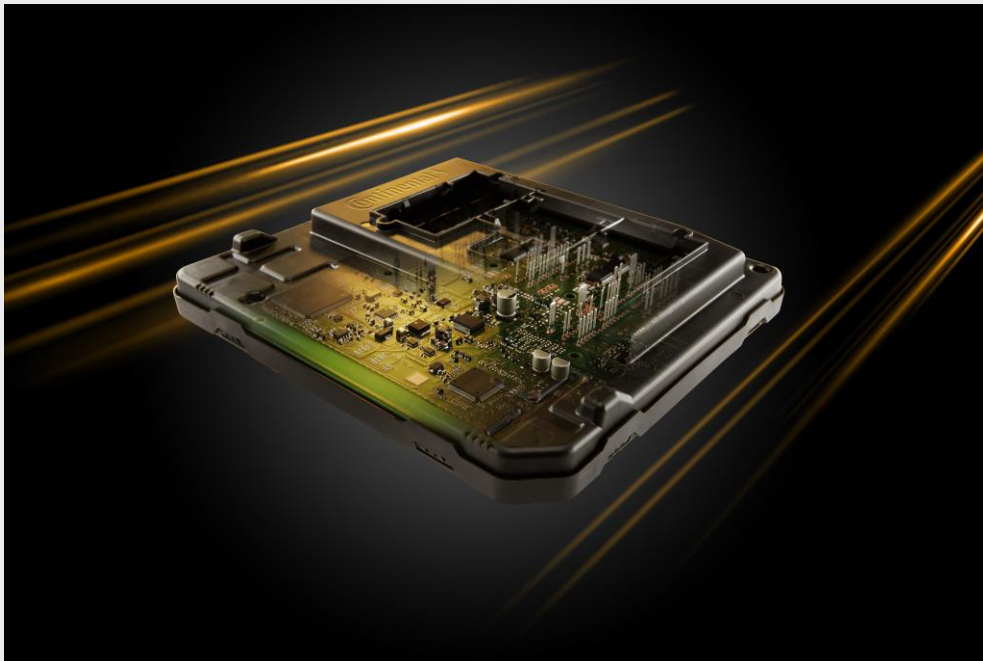


Zone Control Unit (ZCU)

Product Information

The **Zone Control Unit (ZCU)** enables a domain independent zonal management of vehicle functions for new server-client vehicle E/E architectures.

It is the logical location to consolidate inputs/outputs from the various sensors and actuators in the vehicle. This supports the separation of hardware and software and further reduces complexity and costs.



Benefits & Features

- › ZCU consolidates vehicle functions in physical zones allowing an overall reduction of the vehicle's architecture/network complexity and costs
 - › Input/output control of sensors, actuators and peripheral devices
 - › Hosting time critical real-time functions
 - › Smart Power Distribution
 - › Communication gateway (Ethernet, CAN/FD, LIN, ...)
 - › Security & safety measures (ASIL)
 - › Infrastructure functions (Power/health management, Time Synchronous Networking, ...)
- › Modular and scalable concept to meet specific customer requirements and to address various vehicle variants

Technical Information

- › Backbone including scalable μ C strategy, power supply and communication interfaces
- › Ethernet interface to server/s (High Performance Computer/s)
- › CAN (FD)/LIN for zonal network
- › Supports TSN, UDS master
- › Standardized E/E and software modules
- › Smart fusing / switching up to 40A