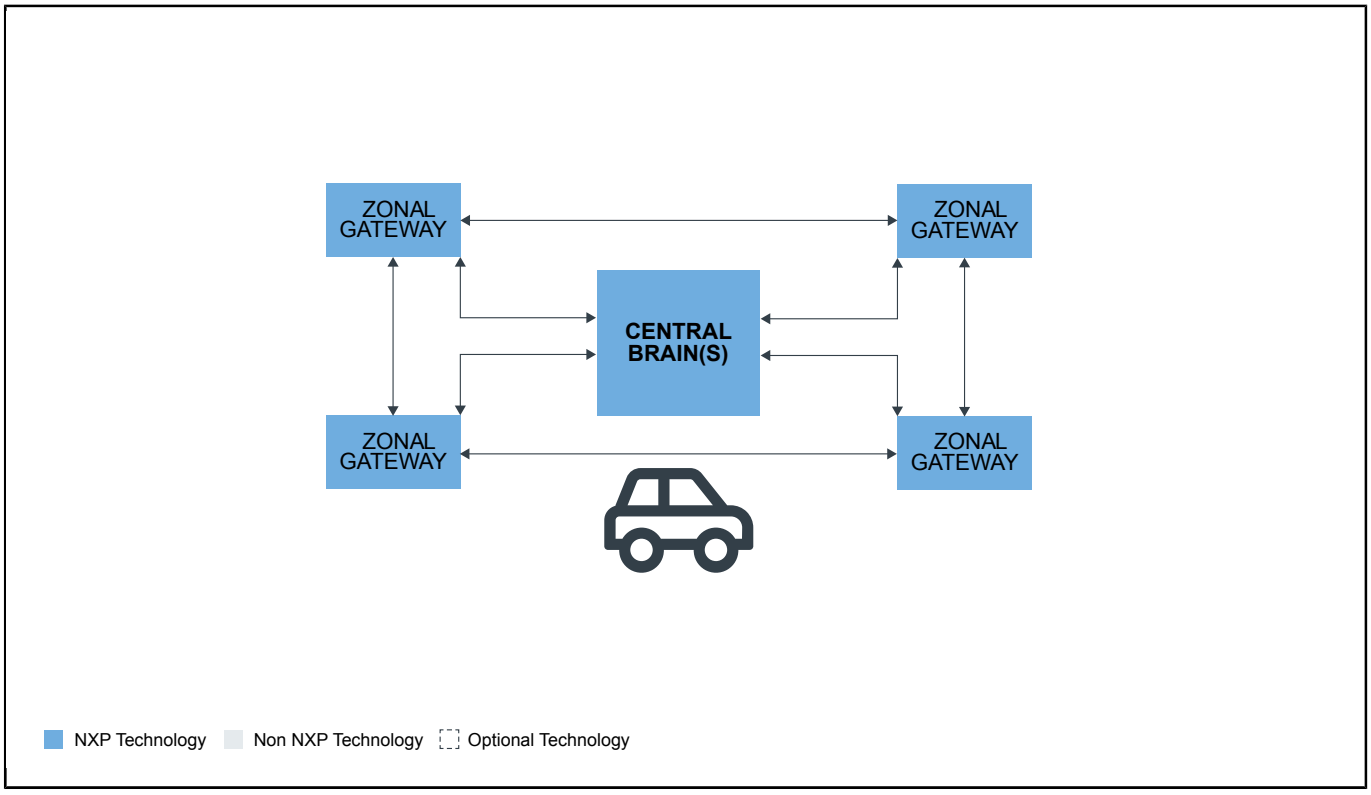
Automotive Zone Controller

Last Updated: May 25, 2022

Zonal architectures enable efficient power and data distribution around the vehicle, while improving wire cost, weight, and manufacturing. A key component in this architecture is the zone controller, it is responsible for connecting the high number of actuators and sensors to a central compute ECU and, depending on application distribution, can have a significant role in strategy within a zone.

OEMs are looking for more scalable and cost-efficient solutions to evolve the E/E architecture and meet future requirements for connected, electric, self-driving vehicles, as the number of services/ECUs within the vehicle grows. This evolution can come via logical distribution of functions onto less diverse software/hardware platforms, and through physical changes to a zonal-based network.

Zonal Architecture Block Diagram



Recommended Products for Zonal Architecture	
Central Brain	• BlueBox 3.0 Automotive High Performance Compute (AHPC) Development Platform • S32G Vehicle Integration Platform (GoldVIP)
Microcontrollers (MCU)	• S32K3 Microcontrollers for General Purpose
Zonal Gateway	• GoldBox for Vehicle Networking Development Platform

View our complete solution for Automotive Zone Controller.

Note: The information on this document is subject to change without notice.