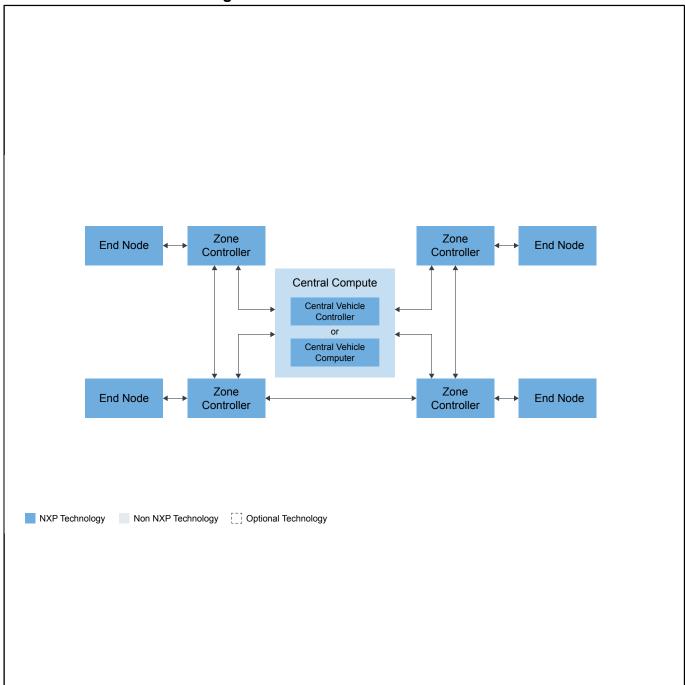


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Central compute is the centralized consolidation of vehicle control, management and services processing in a software-defined vehicle (SDV). It provides automakers a consistent way to update, customize and reconfigure vehicle functionality in a safe and secure manner.

Central compute can include a central vehicle controller, which focuses on real-time applications and a central vehicle computer, which addresses applications processing.

## **Zonal Architecture Block Diagram**



Recommended Products for Zonal Architecture	
Zone Controller	<ul> <li>\$32K3: \$32K3 Microcontrollers for Automotive General Purpose</li> <li>\$32Z2: \$32Z2 Safe and Secure High-Performance Real-Time Processors</li> <li>\$32E2: \$32E2 Safe and Secure High-Performance Real-Time Processors with Actuation Support</li> <li>\$32G3: \$32G3 Processors for Vehicle Networking</li> <li>\$32G2: \$32G2 Processors for Vehicle Networking</li> <li>\$VR5510: Multi-Channel (9) PMIC for \$32G Processor – 8 High Power, 1 Low Power, Fit for ASIL D Safety Level</li> <li>\$PF53: 12 A / 8 A / 15 A Core Supply Regulator with AVP and Watchdog</li> <li>\$FS26: Safety System Basis Chip with Low Power, for ASIL D Systems</li> <li>\$PF5030: Multi-Channel PMIC for Automotive Applications</li> <li>\$JA1110: Multi-Gig Safe and Secure TSN Ethernet Switch with Integrated 100BASE-T1 PHYS</li> <li>\$FS86: Safety System Basis Chip For Domain Controller, Fit For ASIL B and D</li> <li>\$TJA1120: TJA1120, ASIL B Compliant Automotive Ethernet 100BASE-T1 PHY Transceiver</li> <li>\$TJA1104: TJA1104, MACsec Enabled ASIL B Compliant Automotive Ethernet 100BASE-T1 PHY Transceiver</li> </ul>
Central Vehicle Computer	S32N Vehicle Super-Integration Processors: S32N Vehicle Super-Integration Processors S32G3 Vehicle Networking Reference Design GoldBox 3 Vehicle Networking Development Platform GOLDVIP: S32G Vehicle Integration Platform (GoldVIP) VR5510: Multi-Channel (9) PMIC for S32G Processor – 8 High Power, 1 Low Power, Fit for ASIL D Safety Level PF53: 12 A / 8 A / 15 A Core Supply Regulator with AVP and Watchdog TJA1120: TJA1120, ASIL B Compliant Automotive Ethernet 1000BASE-T1 PHY Transceiver TJA1104: TJA1104, MACsec Enabled ASIL B Compliant Automotive Ethernet 100BASE-T1 PHY Transceiver SJA1110: Multi-Gig Safe and Secure TSN Ethernet Switch with Integrated 100BASE-T1 PHYs
End Node	S32M2: S32M2 Integrated Solution for 12V Motor Control S32K3: S32K3 Microcontrollers for Automotive General Purpose S32K1: S32K1 Microcontrollers for Automotive General Purpose S32K1: S32K1 Microcontrollers for Automotive General Purpose FS24: Safety Mini CAN FD SBC for Automotive Applications Fit for ASIL-B FS23: Safety System Basis Chip (SBC) Family with Power Management, CAN and LIN FS26: Safety System Basis Chip with Low Power, for ASIL D Systems TJA1463: CAN Signal Improvement Capability Transceiver with Sleep Mode TJA1103: TJA1103, ASIL B Compliant Automotive Ethernet 100BASE-T1 PHY Transceiver TJA1104: TJA1104, MACsec Enabled ASIL B Compliant Automotive Ethernet 100BASE-T1 PHY Transceiver

View our complete solution for Central Compute.

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

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