

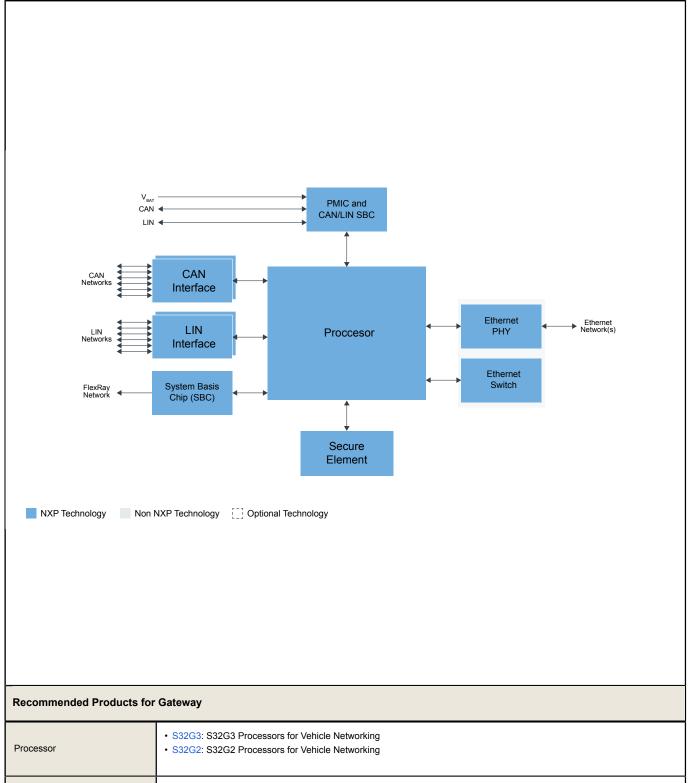
## Gateway

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The gateway is a central hub in the vehicle that securely interconnects and processes data across heterogeneous vehicle networks to and from functional domains such as powertrain, chassis and safety, body control, infotainment, telematics and advanced driving assistance systems.

Automotive gateways process different communication protocols, such as CAN, LIN, FlexRay and Gigabit Ethernet while securely filtering data in real time to protect it from hacking. Gateways also enable over-the-air (OTA) firmware updates for the different electronic control units (ECUs) within the car.

**Gateway Block Diagram** 



Processor	S32G3: S32G3 Processors for Vehicle Networking     S32G2: S32G2 Processors for Vehicle Networking
CAN Transceiver	CAN Transceivers: CAN Transceivers
LIN Transceiver	Automotive LIN Solutions: Automotive LIN Solutions
PMIC and CAN/LIN SBC	TJA1128: LIN Mini System Basis Chip VR5510: Multi-Channel (9) PMIC for S32G Processor – 8 High Power, 1 Low Power, Fit for ASIL D Safety Level CAN/LIN SBCs: CAN/LIN System Basis Chips (SBCs)

FlexRay Transceivers	UJA113xA: Buck/Boost High-Speed CAN/LIN System Basis Chip     FlexRay Transceivers: FlexRay Transceivers
Ethernet PHY	TJA1120: TJA1120, ASIL B Compliant Automotive Ethernet 1000BASE-T1 PHY Transceiver     TJA1103: TJA1103, ASIL B Compliant Automotive Ethernet 100BASE-T1 PHY Transceiver
Ethernet Switch	SJA1105EL: SJA1105EL: Five- Ports AVB Automotive Ethernet Switch     SJA1105TEL: Five- Ports AVB and TSN Automotive Ethernet Switch     SJA1105PQRS: SJA1105PEL/QEL/REL/SEL Series Ethernet Switches     SJA1110: Multi-Gig Safe and Secure TSN Ethernet Switch with Integrated 100BASE-T1 PHYs
Secure Elements	NCJ37x: Automotive Secure Element with Passive NFC, I <sup>2</sup> C and SPI Interfaces     NCJ38A: Automotive-Qualified Embedded Secure Element (SE)

View our complete solution for Gateway.

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

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