



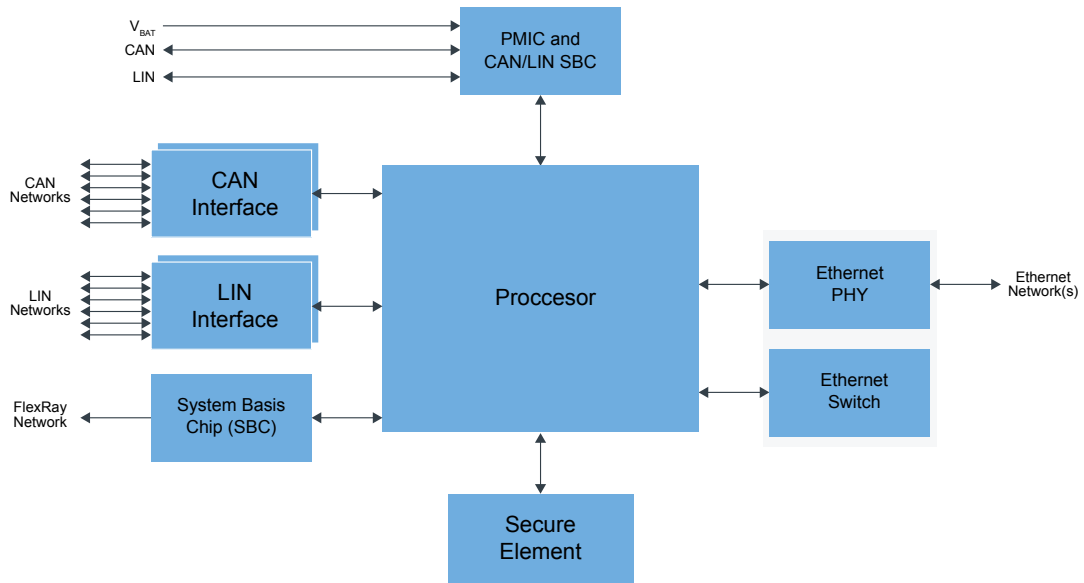
Gateway

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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



NXP Technology
 Non NXP Technology
 Optional Technology

Recommended Products for Gateway

プロセッサ	<ul style="list-style-type: none"> • S32G3: 車載ネットワーク向けS32G3プロセッサ • S32G2: 車載ネットワーク向けS32G2プロセッサ
CAN Transceiver	<ul style="list-style-type: none"> • CANトランシーバ: CANトランシーバ
LIN Transceiver	<ul style="list-style-type: none"> • オートモーティブLINソリューション: オートモーティブLINソリューション
PMIC and CAN/LIN SBC	<ul style="list-style-type: none"> • TJA1128: LINミニ・システムベース・チップ • VR5510: Multi-Channel (9) PMIC for S32G Processor – 8 High Power, 1 Low Power, Fit for ASIL D Safety Level

	<ul style="list-style-type: none"> • CAN/LIN SBC: CAN/LINシステム基本チップ(SBC)
FlexRay Transceivers	<ul style="list-style-type: none"> • FlexRayトランシーバ: FlexRayトランシーバ
Ethernet PHY	<ul style="list-style-type: none"> • TJA1120: TJA1120、ASIL B準拠、車載用イーサネット1000BASE-T1 PHYトランシーバ • TJA1103: TJA1103、ASIL B準拠車載イーサネット100BASE-T1 PHYトランシーバ
Ethernet Switch	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • NCJ37x: Automotive Secure Element with Passive NFC, I²C and SPI Interfaces • NCJ38A: Automotive-Qualified Embedded Secure Element (SE)

View our complete solution for [Gateway](#).

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