Service-Oriented Gateway

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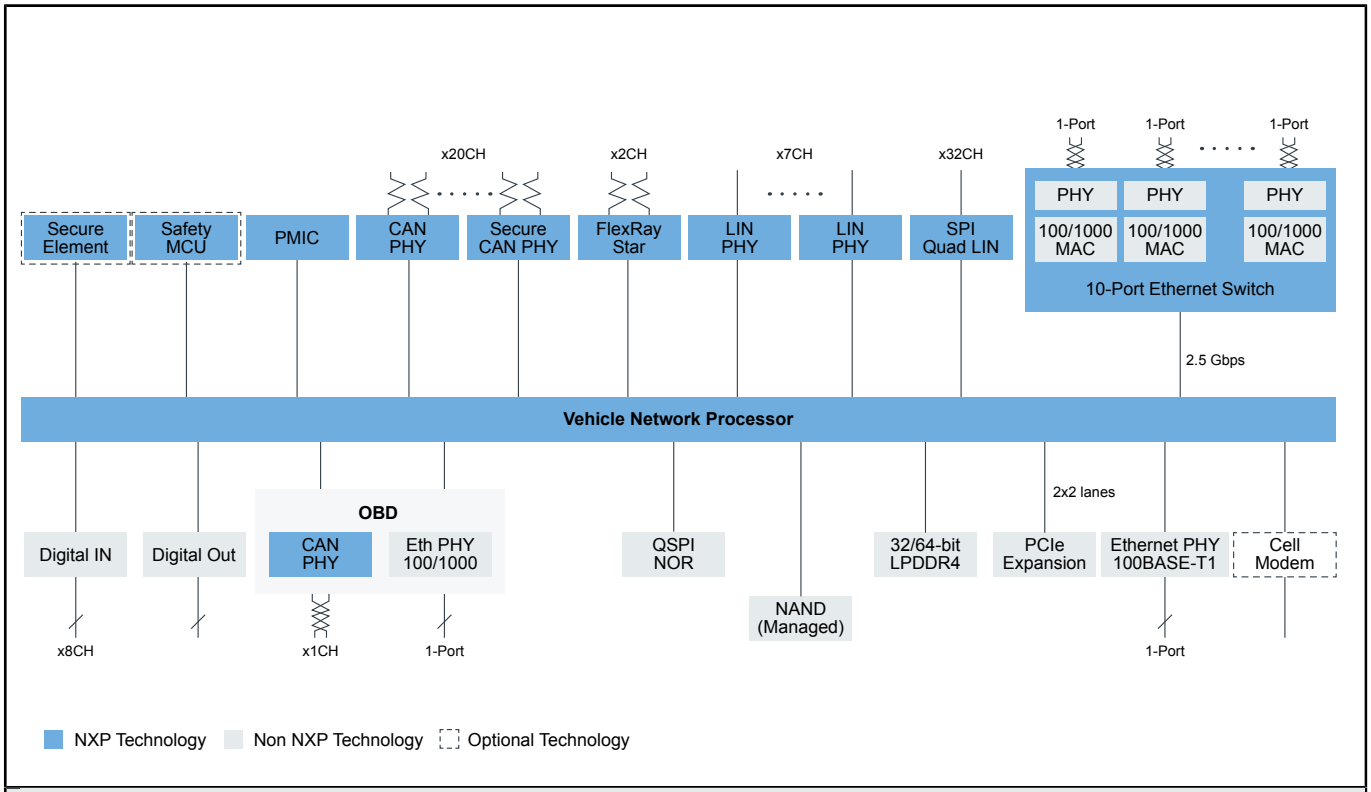
Service-oriented gateways require high performance and networking capabilities to meet the processing requirements and high-bandwidth vehicle data usage for services. Examples of services include vehicle health monitoring or prognostics, vehicle-wide OTA updates, edge data analytics and car sharing support, with many new services expected in the future.

These services can transform the automotive industry by providing disruptive opportunities that generate new revenue streams for automakers, enhance safety and security, improve user experiences and reduce costs.

Service-oriented Gateway Block Diagram



Recommended Products for Service-oriented Gateway

Vehicle Network Processors	• S32G2 Processors for Vehicle Networking • S32G Vehicle Integration Platform (GoldVIP)
Safety Microcontrollers	• S32K1 Microcontrollers for General-Purpose
PMIC	• VR5510: Multi-Channel (9) PMIC for S32G Processor – 8 High Power, 1 Low Power, Fit for ASIL D Safety Level
CAN PHY	• TJA1046TK: Dual High-Speed CAN Transceiver with Standby Mode • TJA1046VTK: VeLIO Certified, Dual High-Speed CAN Transceivers with Standby Mode for Automotive Applications
Secure CAN PHY	• Secure CAN Transceivers: Secure TJA115x CAN Transceiver Family • TJA1462: CAN Signal Improvement Capability Transceiver with Standby Mode • TJA1463: CAN Signal Improvement Capability Transceiver with Sleep Mode • TJA144x: Automotive CAN FD Transceiver Family
LIN PHY	• TJA1022: Dual LIN 2.2A/SAE J2602 Transceiver • TJA1024HG: Quad LIN 2.2 A/SAE J2602 Transceiver
Ethernet	• SJA1110: Multi-Gig Safe and Secure TSN Ethernet Switch with Integrated 100BASE-T1 PHYs
FlexRay Star	• TJA1085G: FlexRay Active Star Coupler – 4 Branch • TJA1085: FlexRay Active Star Coupler – 4 Branch
SPI-QuadLIN	• SJA1124: Quad LIN Commander Transceiver with LIN Commander Controller
Secure Element	• NCJ38A: Automotive-Qualified Embedded Secure Element (SE)

View our complete solution for Service-Oriented Gateway.

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