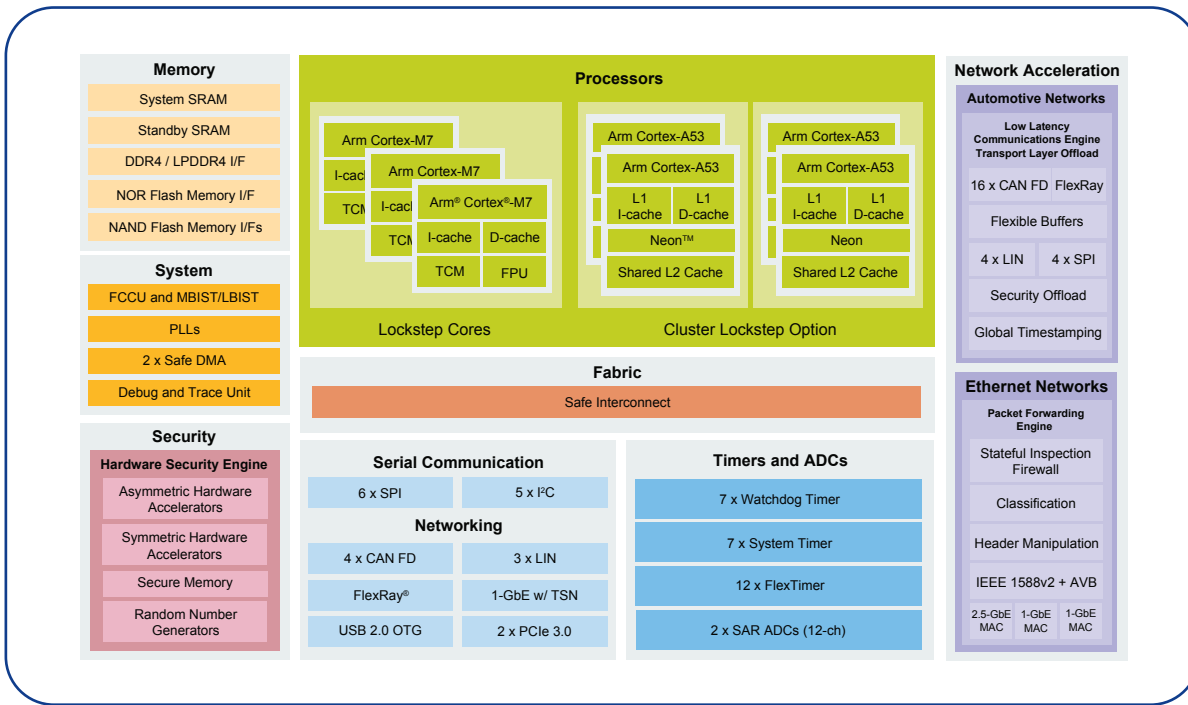


S32G SAFE AND SECURE VEHICLE NETWORK PROCESSOR

Key Features	Benefits
Designed and manufactured to satisfy automotive reliability and ISO 26262 ASIL D functional safety requirements	Accelerates development of functional safety applications, including advanced driver assistance systems (ADAS) and autonomous drive systems
Quad Arm® Cortex®-A53 cores with Arm Neon™ technology organized in two clusters of two cores with optional cluster lockstep	Supports high-performance processing and high-level operating systems for service-oriented gateways, ECU consolidation and safety applications
Triple Arm Cortex-M7 lockstep cores	Supports real-time processing and safety operating systems for safe processing and ECU consolidation
Low Latency Communications Engine (LLCE)	Enables deterministic automotive networks and offloads processors to focus on value-add services
Packet Forwarding Engine (PFE)	Provides high-performance stateful firewall, classification and header manipulation and offloads processors to focus on value-add services
Advanced functional safety hardware and software	Supports fail-operational fault recovery with capability through detection, isolation and resolution of faults without system shutdown
Hardware Security Engine (HSE)	Accelerates security services to offload processors and network accelerators and provides protection against IP theft and cyber security attacks
AEC-Q100 Grade 2 device (-40°C to -105°C)	Supports a wide range of automotive applications

S32G274A BLOCK DIAGRAM



SafeAssure® FUNCTIONAL SAFETY PROGRAM

Functional safety. Simplified.

Our SafeAssure functional safety program is designed to help system manufacturers more easily achieve system compliance with International Standards Organization (ISO) 26262 and International Electrotechnical Commission (IEC) 61508 functional safety standards. The program highlights our hardware and software solutions that are optimally designed to support functional safety implementations and come with a rich set of enablement collateral.

For more information, visit www.nxp.com/SafeAssure.



www.nxp.com/S32G

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