



S32Z2 Safe and Secure High-Performance Real-Time Processors

S32Z2

Active

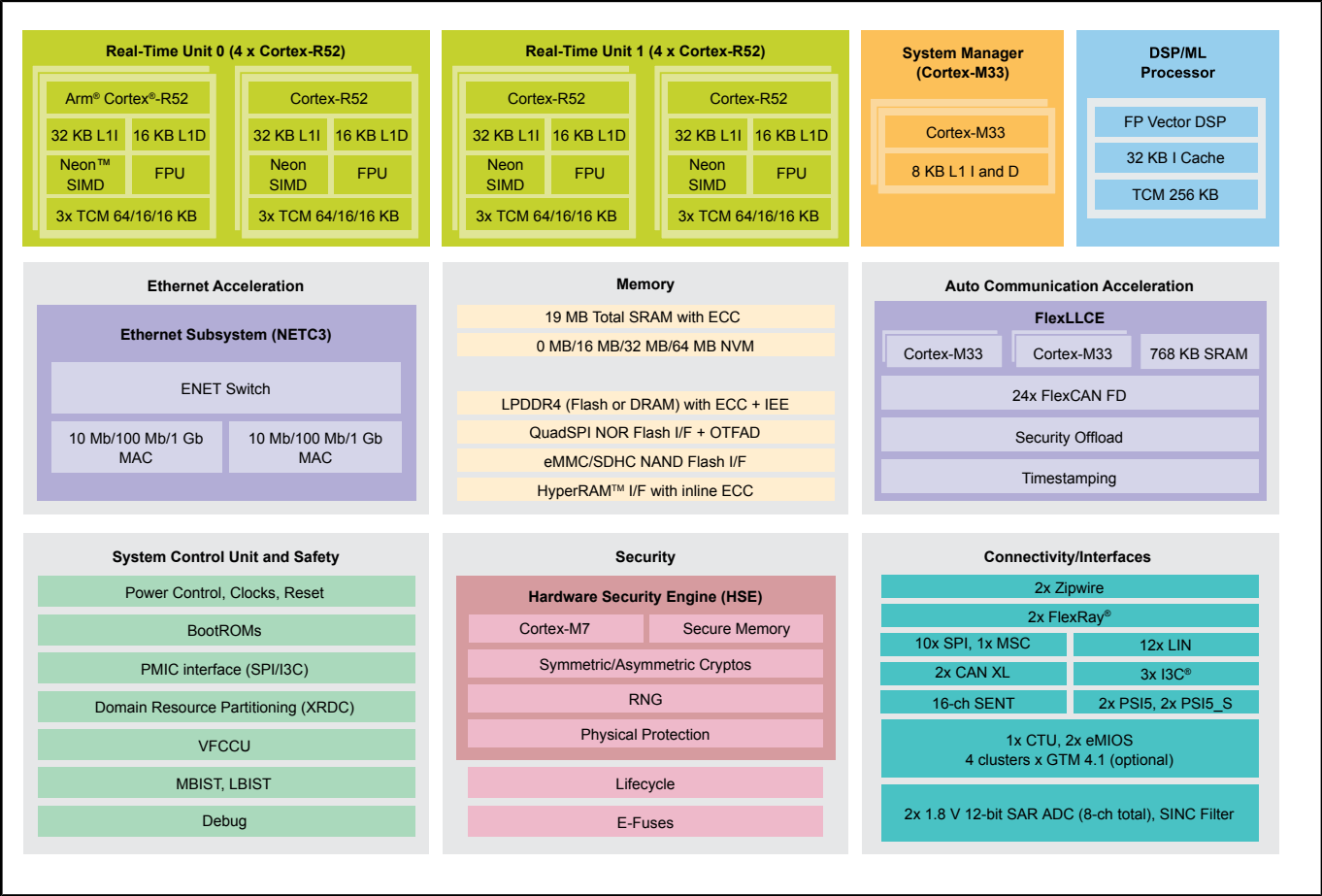
Last Updated: Sep 8, 2025

S32Z2 high-performance real-time processors accelerate the integration of diverse, real-time applications include safety processing and domain and zonal control. The S32Z2 processors help enable software-defined vehicles, reduce software integration complexity and enhance safety and security.

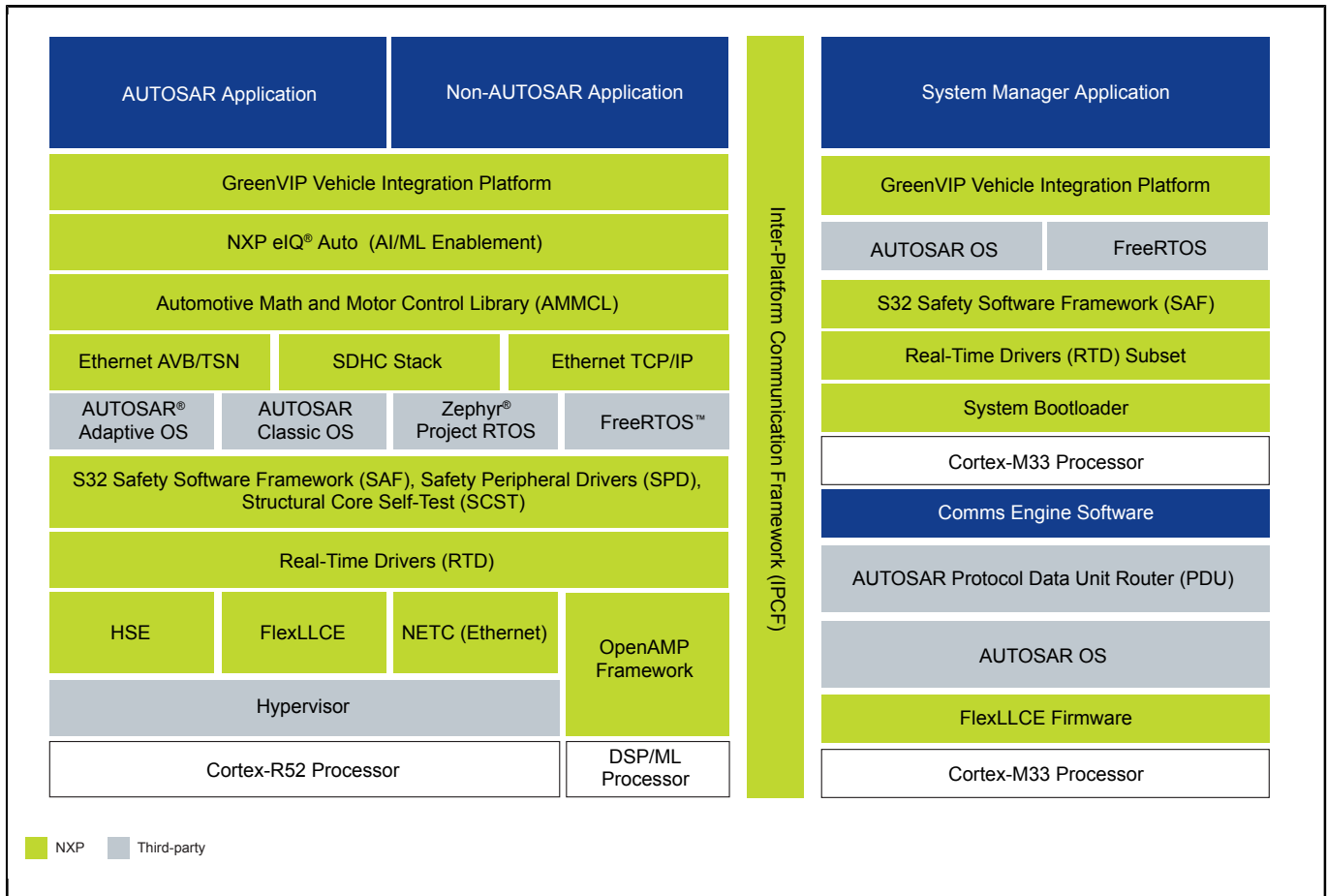
The 16nm S32Z2 processors combine real-time and DSP/ML processing with hardware virtualization, scalable non-volatile memory, flexible expansion memory support and network acceleration. The processors are developed according to processes that are certified to ISO/SAE 21434 for cybersecurity and ISO 26262 for ASIL D functional safety. The S32Z2 processors are software-compatible with the S32E2 processors that target electric vehicle (xEV) control and smart actuation applications.

The S32Z2 processors are enabled with GreenVIP vehicle integration platform software and the GreenBox 3 development platform, along with a strong partner ecosystem.

S32Z2 Real-Time Processors Block Diagram



S32Z and S32E Real-Time Processors Software Block Diagram



View additional information for [S32Z2 Safe and Secure High-Performance Real-Time Processors](#).

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

www.nxp.com

NXP and the NXP logo are trademarks of NXP B.V. All other product or service names are the property of their respective owners. The related technology may be protected by any or all of patents, copyrights, designs and trade secrets. All rights reserved. © 2025 NXP B.V.