S32Z280-400EVB High-Performance Real-Time Processors Evaluation Board

S32Z280-400EVB
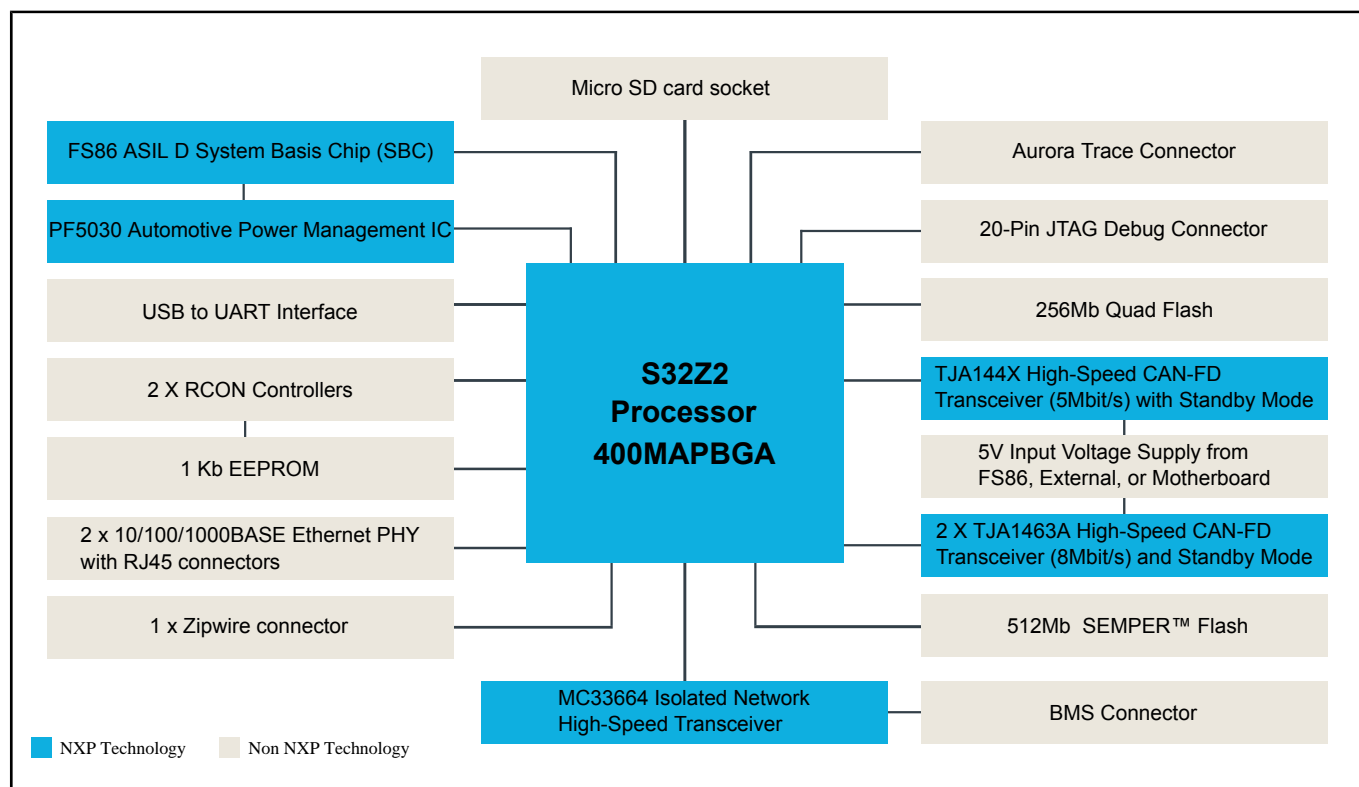
Preproduction

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S32Z280-400EVB is an evaluation board for the S32Z2 family of safe and secure high-performance real-time processors. It provides a platform to accelerate the integration of diverse, real-time applications including safety processing and domain and zonal control.

Based on a production-grade 16 nm S32Z280 processor in the 400 MAPBGA package that combines real-time and DSP/ML processing with hardware virtualization power management devices, multiple clock, boot, I/O and external memory options, GB Ethernet, CAN FD, UART and SPI interfaces, and JTAG/Aurora debug support.

The S32Z280-400EVB is enabled with the GreenVIP vehicle integration platform software that integrates NXP standard and reference design software, along with open source and third-party software to support evaluation, development and rapid prototyping.

The S32Z280-400EVB is a standalone development board. However, it can also be utilized with the S32X-MB for additional functionality and access to I/O and peripherals. Some of these additional peripherals include CAN FD, Ethernet, FlexRay, LIN and motor control.

S32Z280-400EVB Evaluation Board Block Diagram

	Micro SD card socket	
FS86 ASIL D System Basis Chip (SBC)		Aurora Trace Connector
PF5030 Automotive Power Management IC		20-Pin JTAG Debug Connector
USB to UART Interface		256Mb Quad Flash
2 X RCON Controllers	**S32Z2 Processor 400MAPBGA**	TJA144X High-Speed CAN-FD Transceiver (5Mbit/s) with Standby Mode
1 Kb EEPROM		5V Input Voltage Supply from FS86, External, or Motherboard
2 x 10/100/1000BASE Ethernet PHY with RJ45 connectors		2 X TJA1463A High-Speed CAN-FD Transceiver (8Mbit/s) and Standby Mode
1 x Zipwire connector		512Mb SEMPER™ Flash
	MC33664 Isolated Network High-Speed Transceiver	BMS Connector

■ NXP Technology   ■ Non NXP Technology

View additional information for S32Z280-400EVB High-Performance Real-Time Processors Evaluation Board.

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