



# One-Chip RFCMOS Automotive Radar SoC for Distributed Architectures

## SAF86XX

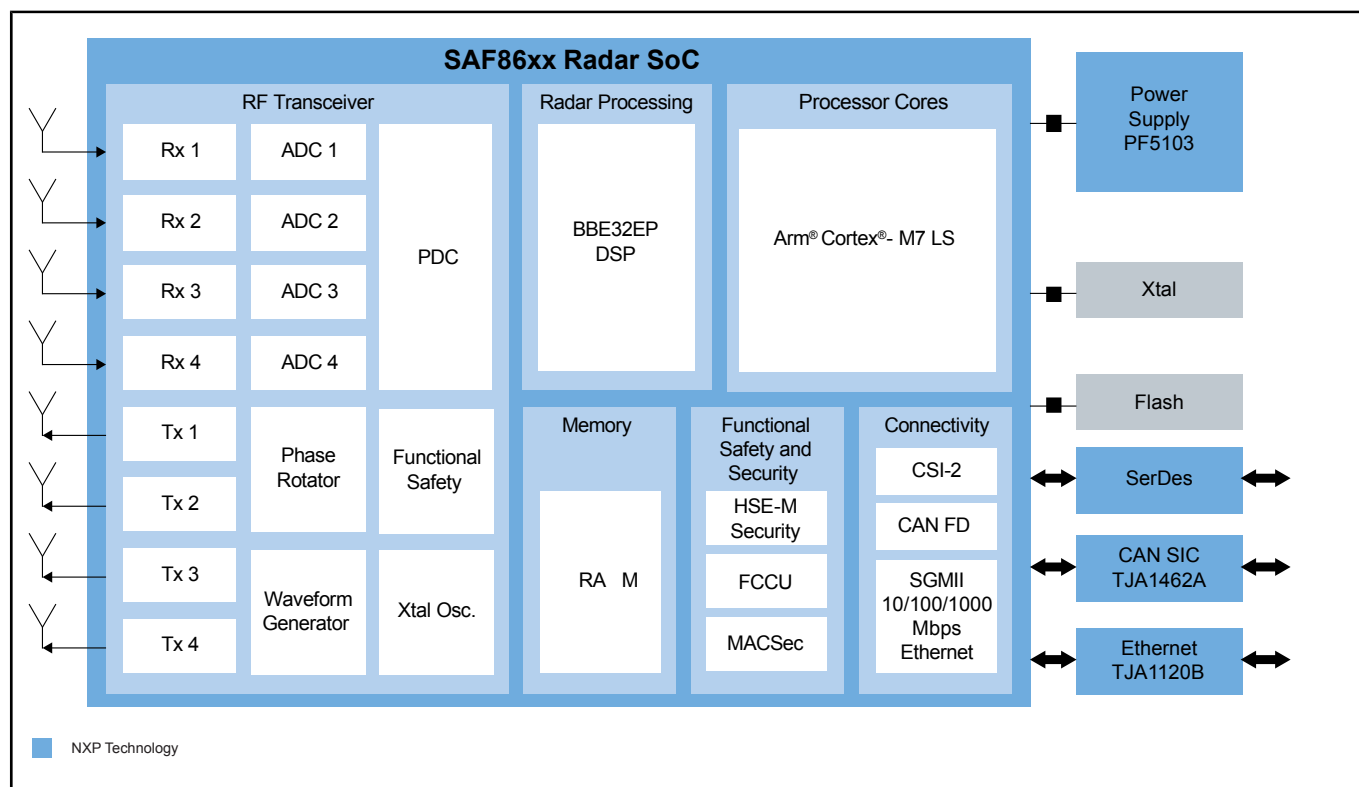
### Preproduction

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The SAF86xx is a highly integrated one-chip RFCMOS radar SoC supporting future distributed automotive radar architectures. The integrated RFCMOS chip contains 4 transmitters, 4 receivers, ADC conversion, phase rotator, low-phase-noise VCO, BBE32EP DSP, Arm® Cortex® – M7 core and SRAM to support various use cases in short-range, medium-range and long-range automotive radar applications. It provides pre-processed radar data, e.g. compressed or uncompressed Range-FFT over Gigabit Ethernet to a radar post-processing unit. SAF86xx is developed in accordance with the functional safety standard ISO 26262 supporting ASIL Level B and ISO/SAE 21434 specifying engineering requirements for cybersecurity risk management. It is meeting the latest security requirements through its HSE security and MACsec engine.

## SAF86xx Radar SoC Block Diagram



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