The SAF85xx RFCMOS automotive radar System-on-Chip (SoC) is a high performance one-chip for automotive FMCW radar application, which is optimized for fast chirp modulation. This device is designed to operate from 76 GHz to 81 GHz covering the full automotive radar frequency band. SAF85xx integrates a radar transceiver with radar microprocessor unit (MPU) based on Arm® Cortex® - A53, Arm Cortex - M7 cores and SRAM. Entry NCAP sensor all the way up to high performance front radar sensors are enabled by this 3rd generation RFCMOS radar device supporting short-range, medium-range and long-range radar applications in a compact form factor.

This fully integrated RFCMOS chip contains 4 transmitters, 4 receivers, ADC conversion, phase rotator, low-phase-noise VCO, SPT radar accelerator, BBE32 Vector DSP, Arm Cortex - A53, Arm Cortex - M7 cores and SRAM to support various use cases and different radar data outputs such as object data, point cloud data or FFT output.

SAF85xx is an ISO 26262 compliant device targeting ASIL Level B and is developed to meet the latest SHE+, EVITA Full security requirements through its HSE security engine.
View additional information for **High Performance 77GHz RF CMOS Automotive Radar One-Chip SoC**.

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