



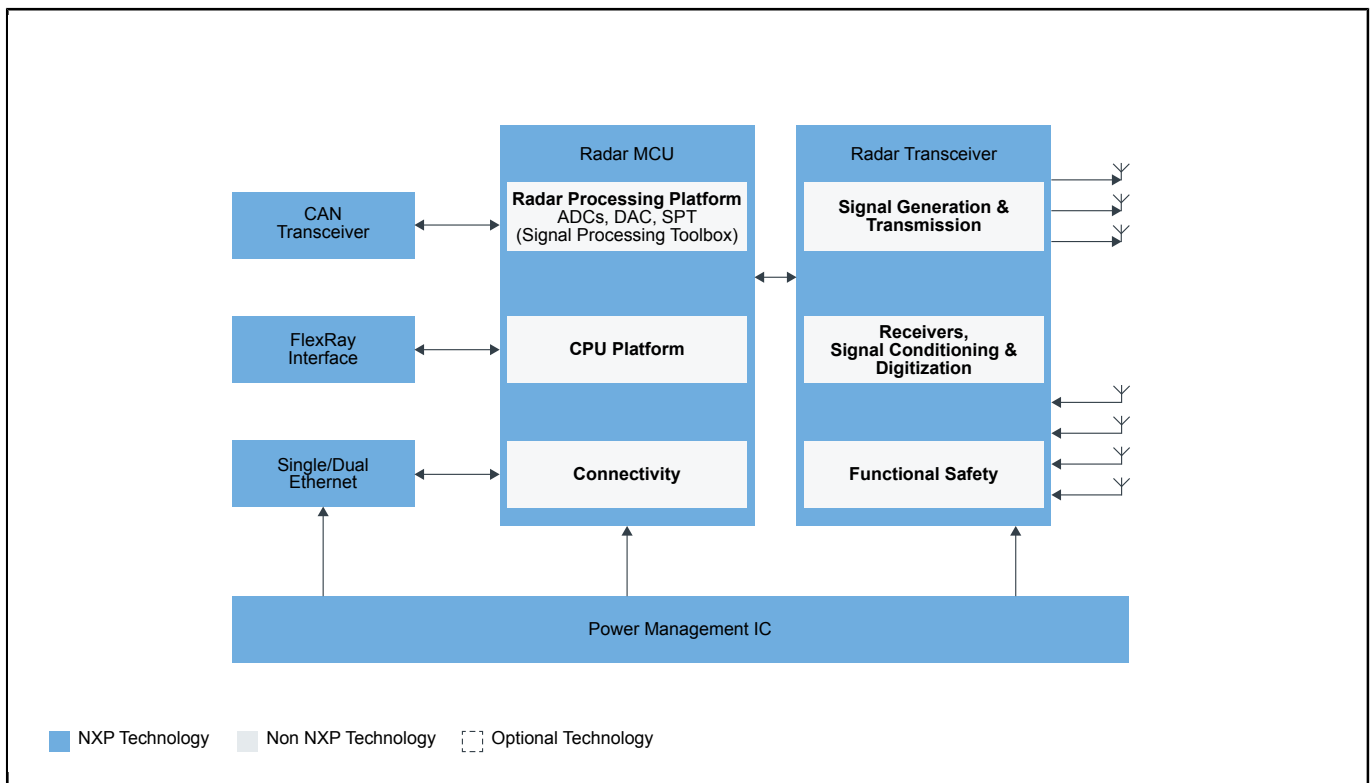
Automotive Radar Systems

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Radar is a core ADAS technology for enhancing safety and convenience. NXP provides scalable portfolio of highly integrated, safe and secure family of products for the complete range of automotive radar applications for NCAP and beyond.

System designers require a portfolio of scalable, streamlined and highly-integrated processing platform that strikes the optimal balance of compute agility and power efficiency for the next-generation of radar solutions which can be paired together with high performance radar transceivers with very small form factor. Coupled with NXP's complete solution offering of PMIC, CAN, Ethernet and Flexray products, NXP eases time of development for engineers when developing scalable solutions to meet the next generation safety requirements and applications.

Radar Systems Block Diagram



Recommended Products for Radar Systems	
Radar MCU	<ul style="list-style-type: none"> • S32R45: S32R Radar MPU – High Performance for Imaging Radar • S32R41: S32R Radar MCU – high performance for high resolution Radar • S32R294: Radar Microcontroller • S32R2X: S32R26 and S32R27 Microcontrollers for High-Performance Radar
Radar Transceiver	<ul style="list-style-type: none"> • TEF82xx: Fully Integrated 77 GHz RFCMOS Automotive Radar Transceiver • TEF810X: TEF810x Fully-Integrated 77 GHz Radar Transceiver
CAN Transceiver	<ul style="list-style-type: none"> • TJA144x: Automotive CAN FD Transceiver Family • TJA1043: High-speed CAN Transceiver with Standby and Sleep Mode • TJA1463: CAN Signal Improvement Capability Transceiver with Sleep Mode
Power Management IC	<ul style="list-style-type: none"> • PF5200: Dual-Channel PMIC for Automotive Applications – 2 High Efficient LVBUCK, Fit for ASIL B Safety Level • FS8400: Safety System Basis Chip for S32 Microcontrollers, Fit for ASIL B • PF5024: Multi-Channel (4) PMIC for Automotive Applications – 4 High Power, Fit for ASIL B Safety Level
FlexRay Interface	<ul style="list-style-type: none"> • TJA1081G: FlexRay™ Node Transceiver - Clamp 30
Single/Dual Ethernet	<ul style="list-style-type: none"> • TJA1101/TJA1101B: Robust, Low Power 100BASE-T1 PHY Transceiver • TJA1103: ASIL B Compliant 100BASE-T1 Ethernet PHY

View our complete solution for [Automotive Radar Systems](#).

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