



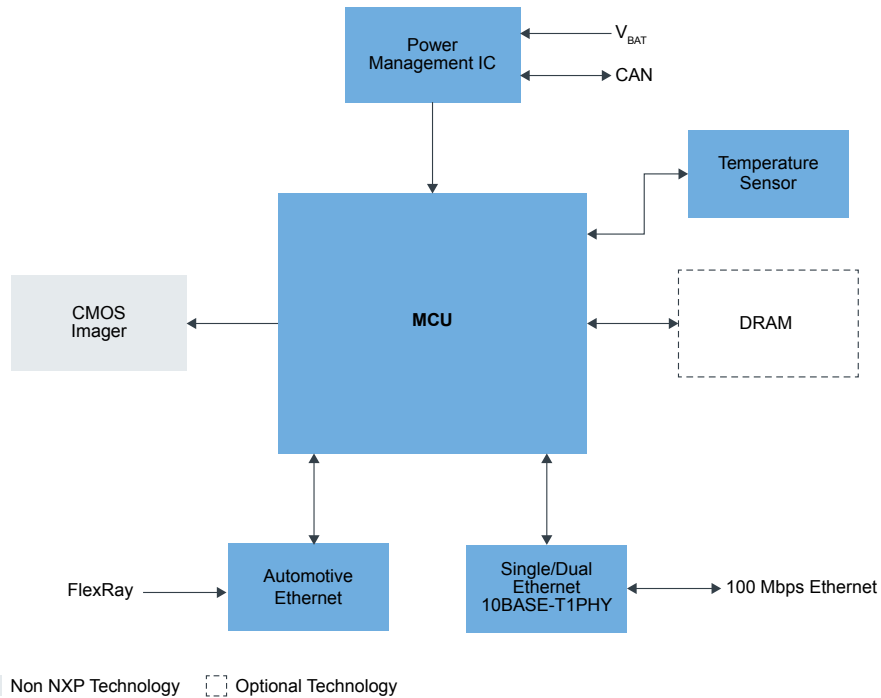
Front View Camera

Last Updated: Jun 5, 2023

Camera systems in advanced driver assistance systems can analyze the video content for lane departure warning (LDW), automatic lane keeping assist (LKA), high/low beam headlight control and traffic sign recognition (TSR).

For a front view camera, an image sensor provides incoming video frames to a dual-core MCU optimized with DSP extensions for image processing. Additional system requirements include an appropriate physical communication interface, a power supply, an optional DRAM and embedded flash for low system cost.

Front View Camera Block Diagram



Recommended Products for Front View Camera

MCU	<ul style="list-style-type: none"> • MPC567xK: Ultra-Reliable MPC567xK MCU for Automotive and Industrial Radar Applications • S32V234: S32V2 Processors for Vision, Machine Learning and Sensor Fusion
Automotive Ethernet	<ul style="list-style-type: none"> • SJA1110: Multi-Gig Safe and Secure TSN Ethernet Switch with Integrated 100BASE-T1 PHYs • TJA1103: TJA1103, ASIL B Compliant Automotive Ethernet 100BASE-T1 PHY Transceiver • TJA1120: TJA1120, ASIL B Compliant Automotive Ethernet 1000BASE-T1 PHY Transceiver • SJA1105TEL: Five- Ports AVB and TSN Automotive Ethernet Switch • TJA1101: TJA1101B, IEEE 100BASE-T1 Compliant Automotive Ethernet PHY Transceiver
Power Management IC	<ul style="list-style-type: none"> • FS8400: Safety System Basis Chip for S32 Microcontrollers, Fit for ASIL B • FS5600: Automotive Dual Buck Regulator and Controller with Voltage Monitors and Watchdog Timer • PF7100: 7-Channel Power Management Integrated Circuit for High Performance Applications, Fit for ASIL B Safety Level • PF5024: Multi-Channel (4) PMIC for Automotive Applications – 4 High Power, Fit for ASIL B Safety Level

Automotive Ethernet	<ul style="list-style-type: none"> • SJA1105TEL: Five- Ports AVB and TSN Automotive Ethernet Switch • TJA1101: TJA1101B, IEEE 100BASE-T1 Compliant Automotive Ethernet PHY Transceiver
Temperature Sensor	<ul style="list-style-type: none"> • P3T1750DP: I3C/I²C-Bus, ±1 °C Accuracy, Digital Temperature Sensor • P3T1755DP: I3C/I²C-Bus ±0.5 °C Accurate Digital Temperature Sensor

View our complete solution for [Front View Camera](#).

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