



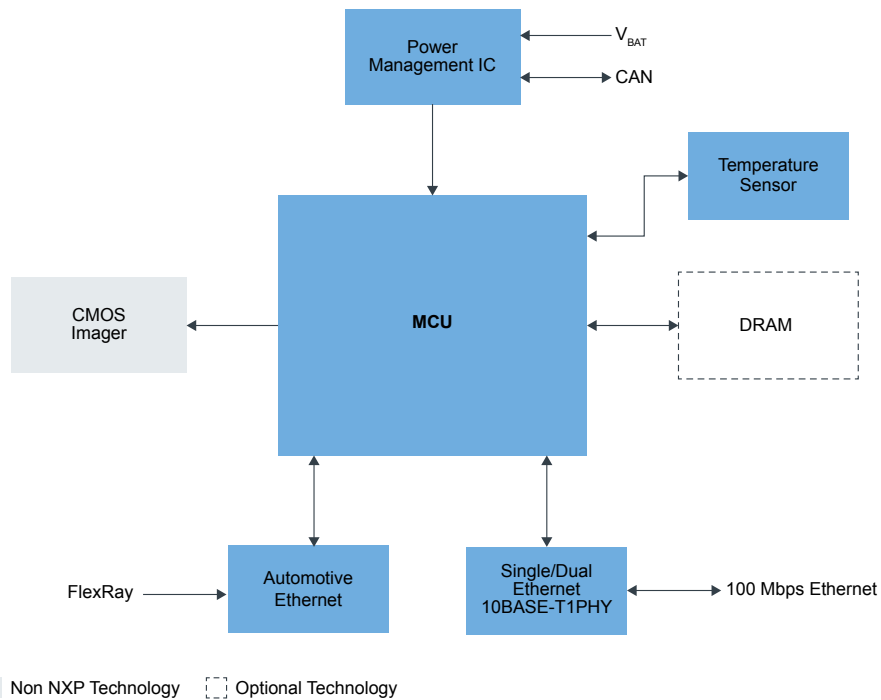
Front View Camera

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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

マイクロコントローラ (MCU)	
車載イーサネット	<ul style="list-style-type: none"> • SJA1110: Multi-Gig Safe and Secure TSN Ethernet Switch with Integrated 100BASE-T1 PHYs • TJA1103: TJA1103、ASIL B準拠車載イーサネット100BASE-T1 PHYトランシーバ • TJA1120: TJA1120、ASIL B準拠、車載用イーサネット1000BASE-T1 PHYトランシーバ • SJA1105TEL: Five- Ports AVB and TSN Automotive Ethernet Switch • TJA1101: TJA1101B、IEEE 100BASE-T1準拠、車載用イーサネットPHYトランシーバ
パワーマネジメント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準拠、車載用イーサネットPHYトランシーバ
温度センサ	<ul style="list-style-type: none"> • P3T1750DP: I3C/I²Cバス、±1° C精度、デジタル温度センサ • P3T1755DP: I3C/I²Cバス対応、±0.5° C精度デジタル温度センサ

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

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