



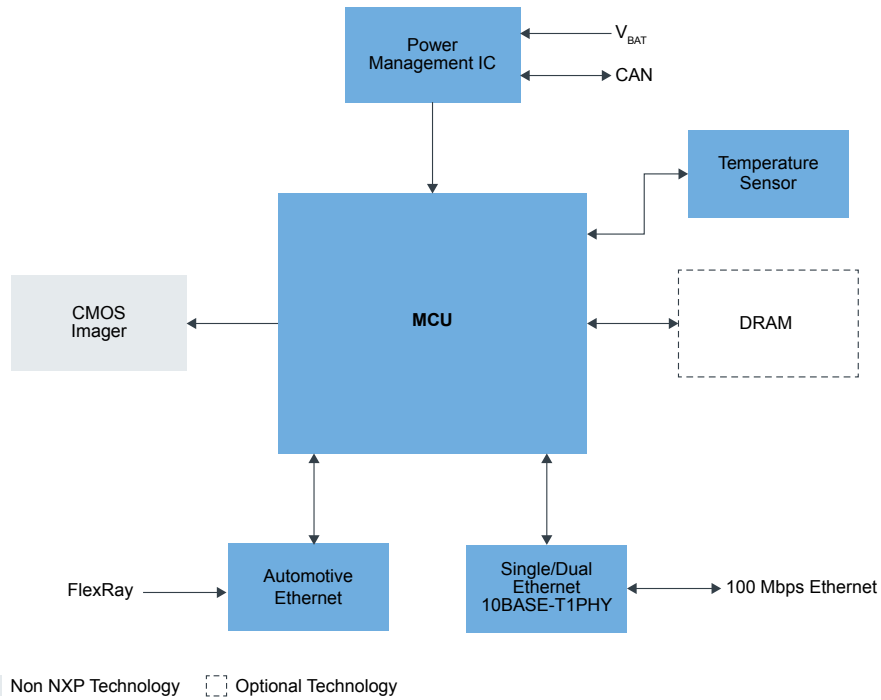
# Front View Camera

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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

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

Automotive Ethernet	<ul style="list-style-type: none"> <li>• <a href="#">SJA1105TEL</a>: Five- Ports AVB and TSN Automotive Ethernet Switch</li> <li>• <a href="#">TJA1101</a>: TJA1101B, IEEE 100BASE-T1 Compliant Automotive Ethernet PHY Transceiver</li> </ul>
Temperature Sensor	<ul style="list-style-type: none"> <li>• <a href="#">P3T1750DP</a>: I3C/I<sup>2</sup>C-Bus, ±1 °C Accuracy, Digital Temperature Sensor</li> <li>• <a href="#">P3T1755DP</a>: I3C/I<sup>2</sup>C-Bus ±0.5 °C Accurate Digital Temperature Sensor</li> </ul>

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

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

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