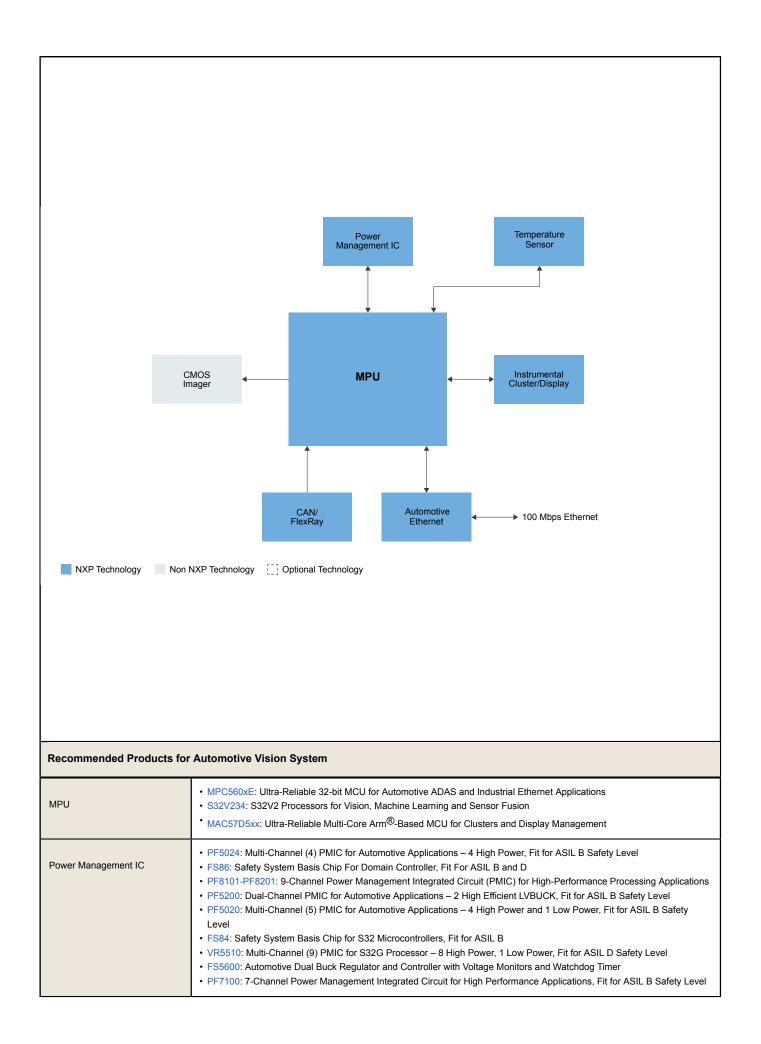


Automotive and Industrial Vision Systems

Last Updated: Feb 26, 2025

Accelerating innovation in automotive vision technology is fueling a transformation in advanced driver assistance systems (ADAS) and will help to enable the achievement of fully autonomous L5 vehicles. ADAS Vision Systems currently provide many assist functions for today's driver. The vision system is a key part of that capability as cars perceive their surroundings and decide on the actions required to maintain the safety of all road users. Co-piloting and then fully automating a car requires technology with automotive grade reliability, safety and security. Our S32V vision processor provides the requisite performance and features for vision system applications.

Automotive Vision System Block Diagram



Automotive Ethernet	TJA1120: TJA1120, ASIL B Compliant Automotive Ethernet 1000BASE-T1 PHY Transceiver TJA1104: TJA1104, MACsec Enabled ASIL B Compliant Automotive Ethernet 100BASE-T1 PHY Transceiver TJA1103: TJA1103, ASIL B Compliant Automotive Ethernet 100BASE-T1 PHY Transceiver TJA1101: TJA1101B, IEEE 100BASE-T1 Compliant Automotive Ethernet PHY Transceiver
CAN/FLexRay	TJA1043: High-Speed CAN Transceiver with Standby and Sleep Mode TJA1081G: FlexRay [™] Node Transceiver - Clamp 30 TJA1463: CAN Signal Improvement Capability Transceiver with Sleep Mode
Instrumental Cluster/Display	TJA1101: TJA1101B, IEEE 100BASE-T1 Compliant Automotive Ethernet PHY Transceiver TJA1103: TJA1103, ASIL B Compliant Automotive Ethernet 100BASE-T1 PHY Transceiver
Temperature Sensor	P3T1755DP: I3C/I ² C-Bus ±0.5 °C Accurate Digital Temperature Sensor P3T1750DP: I3C/I ² C-Bus, ±1 °C Accuracy, Digital Temperature Sensor

View our complete solution for Automotive and Industrial Vision Systems.

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