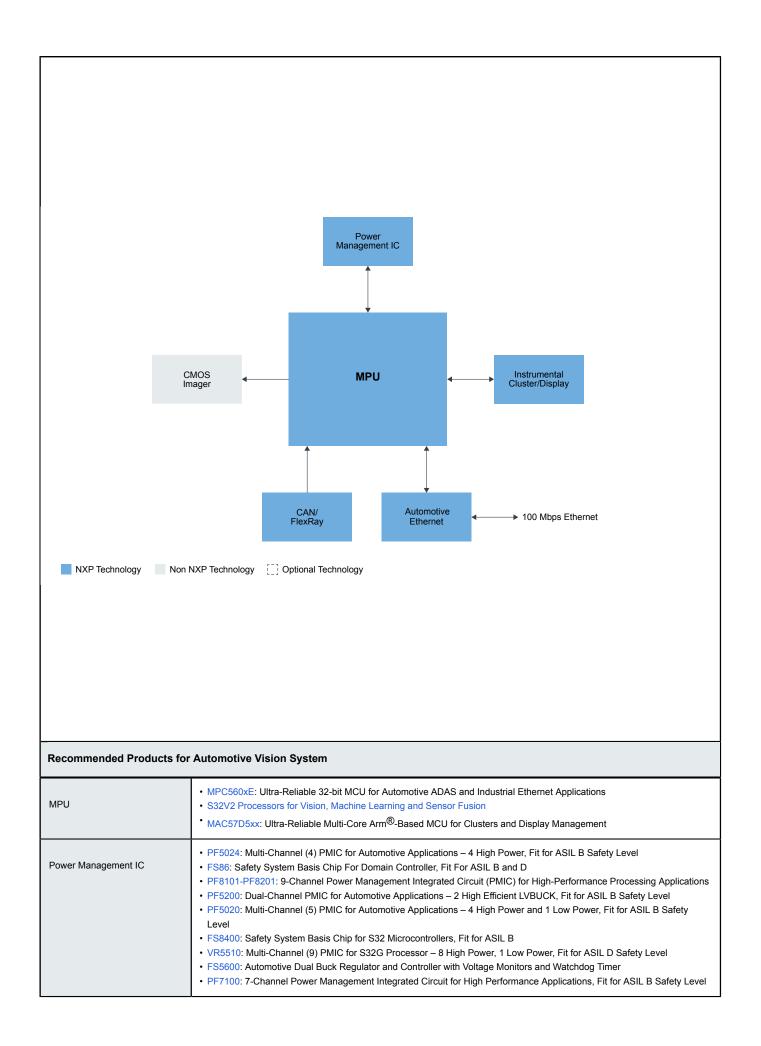


Automotive Vision Systems

Last Updated: Feb 24, 2023

Accelerating innovation in automotive vision technology is fueling a transformation in advanced driver assistance systems (ADAS) and will ultimately 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. Copiloting 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 Automotive Ethernet PHY 1000BASE-T1, ASIL-B and TC-10 TJA1101: TJA1101/TJA1101B: Robust, Low Power 100BASE-T1 PHY Transceiver TJA1103: ASIL B Compliant 100BASE-T1 Ethernet PHY
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: TJA1101/TJA1101B: Robust, Low Power 100BASE-T1 PHY Transceiver TJA1103: ASIL B Compliant 100BASE-T1 Ethernet PHY

View our complete solution for Automotive Vision Systems.

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

www.nxp.com

NXP and the NXP logo are trademarks of NXP B.V. All other product or service names are the property of their respective owners. The related technology may be protected by any or all of patents, copyrights, designs and trade secrets. All rights reserved. © 2023 NXP B.V.