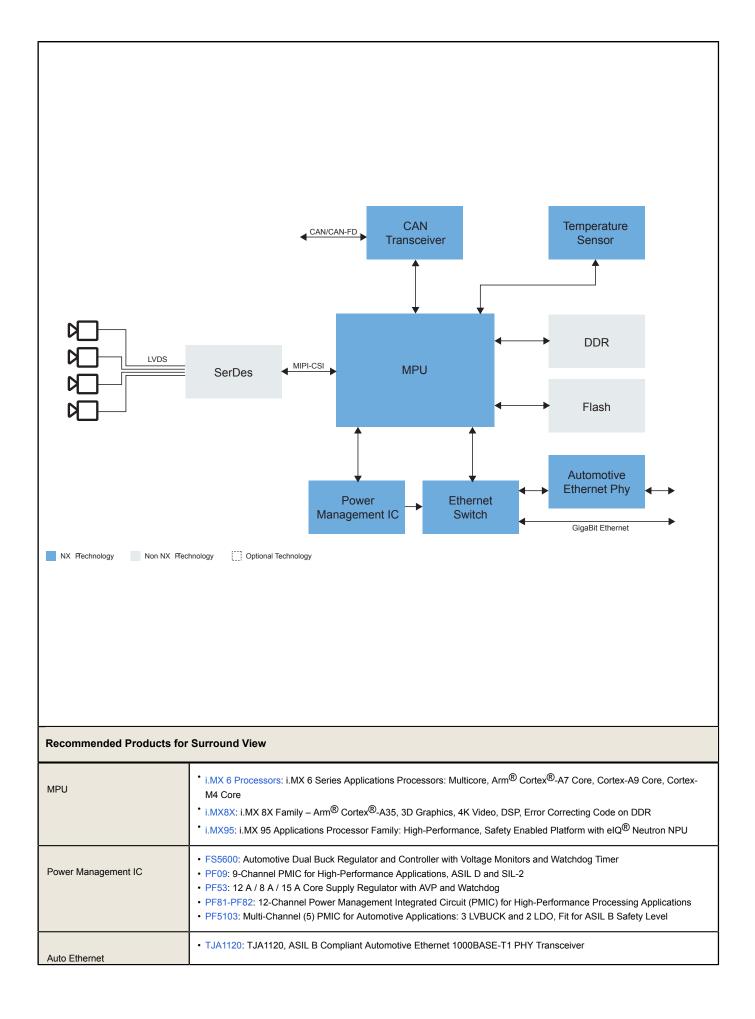


Surround View

Last Updated: Apr 15, 2025

Multi-camera surround view and sense park assist systems capture and display onscreen the area surrounding the car from a virtual 3D view. The perspective is dynamically moved depending upon the trajectory of the car, providing a 360° view around the car. Advanced parking systems deploy four to five high-dynamic range (HDR) > 1 MP cameras using a costeffective link such as MIPI-CSI or Gb Ethernet. Our i.MX 95 applications processor family provides up to six high-performance Arm® Cortex®-A55 cores, advanced graphics, video and machine learning accelerators for high performance vision applications. It includes an integrated Image Signal Processor and can support up to eight raw camera streams for an aggregate 500 Mpixel/s throughput.

Surround View Block Diagram



	TJA1103: TJA1103, ASIL B Compliant Automotive Ethernet 100BASE-T1 PHY Transceiver
Ethernet Switch	 SJA1110: Multi-Gig Safe and Secure TSN Ethernet Switch with Integrated 100BASE-T1 PHYs SJA1105PQRS: SJA1105PEL/QEL/REL/SEL Series Ethernet Switches
CAN Transceiver	 TJA1043: High-Speed CAN Transceiver with Standby and Sleep Mode TJA1463: CAN Signal Improvement Capability Transceiver with Sleep Mode
Temperature Sensor	 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 Surround View.

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

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