

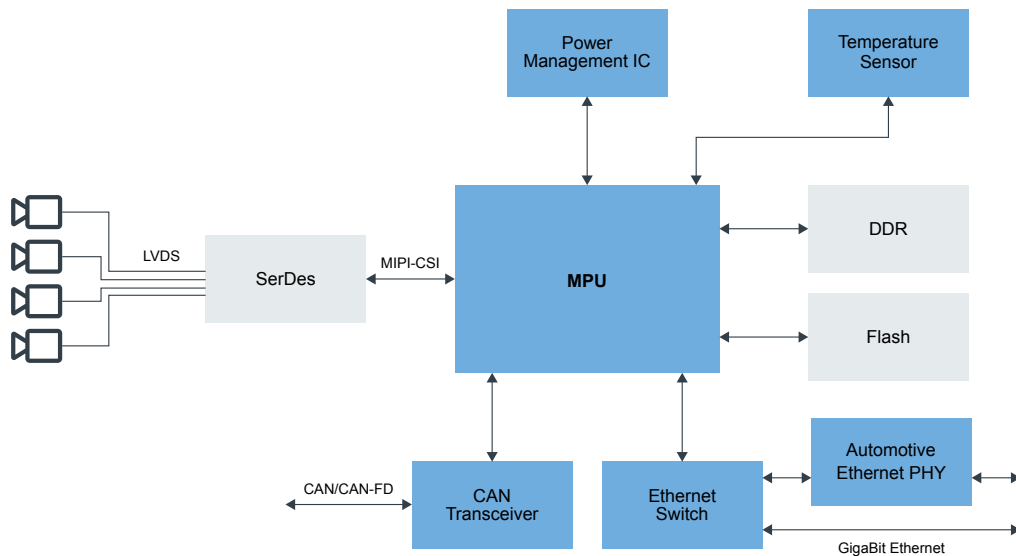


Surround View

Last Updated: Jun 2, 2023

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 cost-effective link such as MIPI-CSI or Gb Ethernet. Our S32V family provide up to four high-performance Arm® Cortex®-A53 cores, advanced graphics and vision accelerators for processing of up to five >1 MP video streams at > 30 fps.

Surround View Block Diagram



■ NXP Technology
 ■ Non NXP Technology
 Optional Technology

Recommended Products for Surround View

MPU

- **i.MX 6プロセッサ**: i.MX 6シリーズ・アプリケーション・プロセッサ：マルチコア、Arm[®] Cortex[®]-A7コア、Cortex-A9コア、Cortex-M4コア
- **S32V234**: S32V2 Processors for Vision, Machine Learning and Sensor Fusion

パワーマネジメントIC

- **FS86**: ドメイン・コントローラ用セーフティ・システムベース・チップ、ASIL BおよびDに適合
- **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
- **MMPF0100**: 14-Channel Configurable PMIC
- **PF8100-PF8200**: 12-Channel Power Management Integrated Circuit (PMIC) for High-Performance Processing Applications
- **PF5020**: Multi-Channel (5) PMIC for Automotive Applications – 4 High Power and 1 Low Power, Fit for ASIL B Safety Level
- **PF7100**: 7-Channel Power Management Integrated Circuit for High Performance Applications, Fit for ASIL B Safety Level

Auto Ethernet	<ul style="list-style-type: none"> • TJA1120: TJA1120、ASIL B準拠、車載用イーサネット100BASE-T1 PHYトランシーバ • TJA1103: TJA1103、ASIL B準拠車載イーサネット100BASE-T1 PHYトランシーバ
イーサネット・スイッチ	<ul style="list-style-type: none"> • SJA1110: Multi-Gig Safe and Secure TSN Ethernet Switch with Integrated 100BASE-T1 PHYs • SJA1105PQRS: SJA1105PEL/QEL/REL/SEL Series Ethernet Switches
CANトランシーバ	<ul style="list-style-type: none"> • TJA1043: High-Speed CAN Transceiver with Standby and Sleep Mode • TJA1463: CAN Signal Improvement Capability Transceiver with Sleep Mode
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 [Surround View](#).

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