

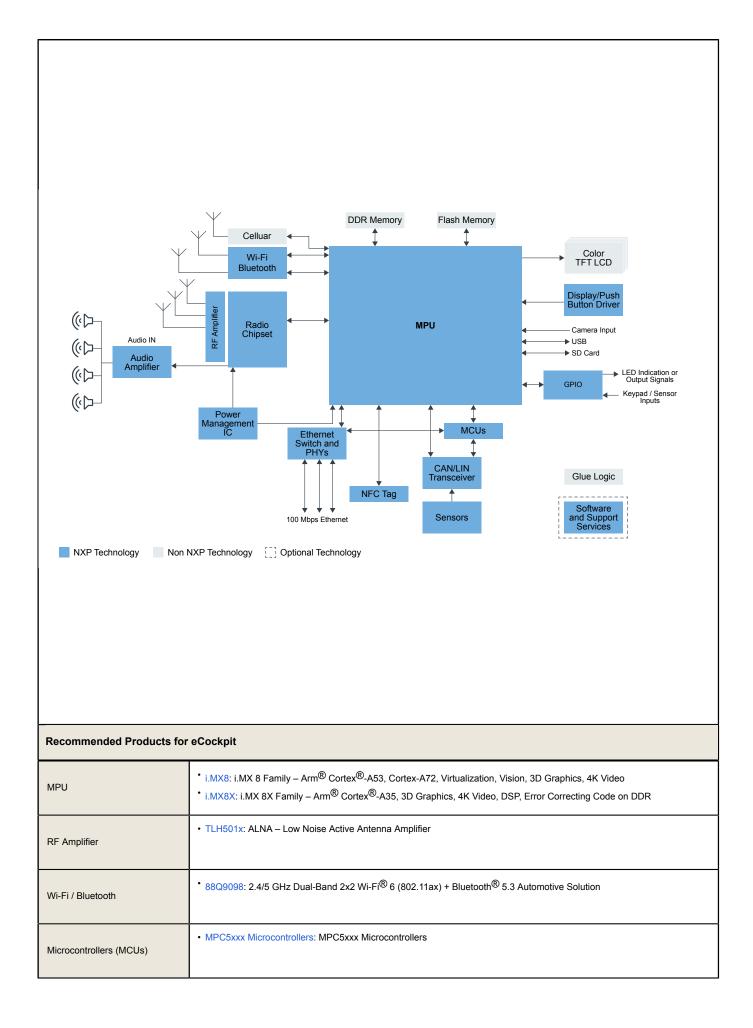


In recent years, we have seen the complexity of infotainment systems increasing every day.

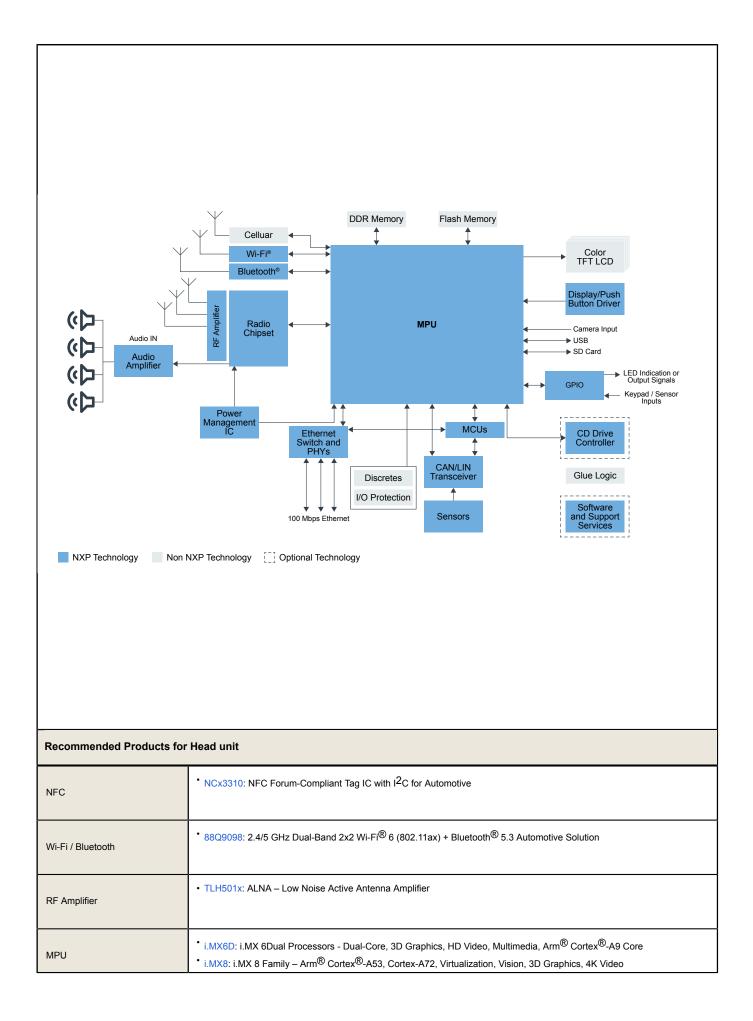
The amount of information to process and represent in a useful way is increasing, requiring powerful and flexible hardware solutions with high-performance graphics capabilities and a large range of interfaces.

NXP offers dedicated automotive applications processors along with Software Defined Radio (SDR) and audio amplifier solutions to satisfy all OEM requirements and specifications. NXP's extensive selection of automotive discrete and networking products, improved radio performance and advanced audio algorithms power a full infotainment system solution.

eCockpit Block Diagram



Radio Chipset	 TDF8541: I²C-Bus Controlled 4 x 45 W Power Amplifier SAF4000: Multi-Standard Software Defined Radio Processor With Integrated Audio
Audio Amplifier	Car Audio Amplifiers: Car Audio Amplifiers
Display/Push Button Driver	Automotive LCD Drivers: Automotive LCD Drivers Automotive Lighting LED Driver ICs: Automotive Lighting - LED Driver ICs
CD Drive Controller	Audio Converters: Audio Converters
CAN/LIN Transceiver	 TJA1128: LIN Mini System Basis Chip TJA144x: Automotive CAN FD Transceiver Family TJA1462: CAN Signal Improvement Capability Transceiver with Standby Mode TJA1463: CAN Signal Improvement Capability Transceiver with Sleep Mode Automotive LIN Solutions: Automotive LIN Solutions
Power Management IC	 FS5600: Automotive Dual Buck Regulator and Controller with Voltage Monitors and Watchdog Timer PF8101-PF8201: 9-Channel Power Management Integrated Circuit (PMIC) for High-Performance Processing Applications PF8100-PF8200: 12-Channel Power Management Integrated Circuit (PMIC) for High-Performance Processing Applications PF7100: 7-Channel Power Management Integrated Circuit for High Performance Applications, Fit for ASIL B Safety Level VR5500: High Voltage PMIC with Multiple SMPS VR5510: Multi-Channel (9) PMIC for S32G Processor – 8 High Power, 1 Low Power, Fit for ASIL D Safety Level MMPF0100: 14-Channel Configurable PMIC PF5020: Multi-Channel (5) PMIC for Automotive Applications – 4 High Power and 1 Low Power, Fit for ASIL B Safety Level PF5024: Multi-Channel (4) PMIC for Automotive Applications – 4 High Power, Fit for ASIL B Safety Level
Sensors	Sensors: Sensors
Wi-Fi / Bluetooth	• 88Q9098: 2.4/5 GHz Dual-Band 2x2 Wi-Fi [®] 6 (802.11ax) + Bluetooth [®] 5.3 Automotive Solution
Software	 i.MX Software: i.MX Software and Development Tools Professional Support for Processors and Microcontrollers NXP Engineering Services: NXP Engineering Services
Ethernet Switch and PHYs	 TJA1120: TJA1120, ASIL B Compliant Automotive Ethernet 1000BASE-T1 PHY Transceiver SJA1110: Multi-Gig Safe and Secure TSN Ethernet Switch with Integrated 100BASE-T1 PHYs SJA1105PQRS: SJA1105PEL/QEL/REL/SEL Series Ethernet Switches 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
NFC Tag	NCx3310: NFC Forum-Compliant Tag IC with I ² C for Automotive
GPIO	PCAL9722: 22-Bit SPI I/O Expander with Agile I/O Features PCAL9714: 14-Bit SPI I/O Expander with Agile I/O Features



	• i.MX8X: i.MX 8X Family – Arm [®] Cortex [®] -A35, 3D Graphics, 4K Video, DSP, Error Correcting Code on DDR
Radio Chipset	SAF4000: Multi-Standard Software Defined Radio Processor With Integrated Audio
Audio Amplifier	Car Audio Amplifiers: Car Audio Amplifiers
Display/Push Button Driver	Automotive LCD Drivers: Automotive LCD Drivers Automotive Lighting LED Driver ICs: Automotive Lighting - LED Driver ICs
CD Drive Controller	Audio Converters: Audio Converters
CAN Transceiver	TJA144x: Automotive CAN FD Transceiver Family TJA1043: High-Speed CAN Transceiver with Standby and Sleep Mode Automotive LIN Solutions: Automotive LIN Solutions
Power Management IC	 FS5600: Automotive Dual Buck Regulator and Controller with Voltage Monitors and Watchdog Timer PF8100-PF8200: 12-Channel Power Management Integrated Circuit (PMIC) for High-Performance Processing Applications PF8101-PF8201: 9-Channel Power Management Integrated Circuit (PMIC) for High-Performance Processing Applications PF7100: 7-Channel Power Management Integrated Circuit for High Performance Applications, Fit for ASIL B Safety Level VR5500: High Voltage PMIC with Multiple SMPS VR5510: Multi-Channel (9) PMIC for S32G Processor – 8 High Power, 1 Low Power, Fit for ASIL D Safety Level MMPF0100: 14-Channel Configurable PMIC PF5020: Multi-Channel (5) PMIC for Automotive Applications – 4 High Power and 1 Low Power, Fit for ASIL B Safety Level PF5024: Multi-Channel (4) PMIC for Automotive Applications – 4 High Power, Fit for ASIL B Safety Level
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Microcontrollers (MCUs)	MPC5xxx Microcontrollers: MPC5xxx Microcontrollers
GPIO	PCAL9722: 22-Bit SPI I/O Expander with Agile I/O Features PCAL9714: 14-Bit SPI I/O Expander with Agile I/O Features

View our complete solution for eCockpit.

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