One-chip Solution, Scalable Audio DSP Processing with AI/ML Capability

SAF9100   NEW

Preproduction

This page contains information on a preproduction product. Specifications and information herein are subject to change without notice. For additional information contact support or your sales representative.
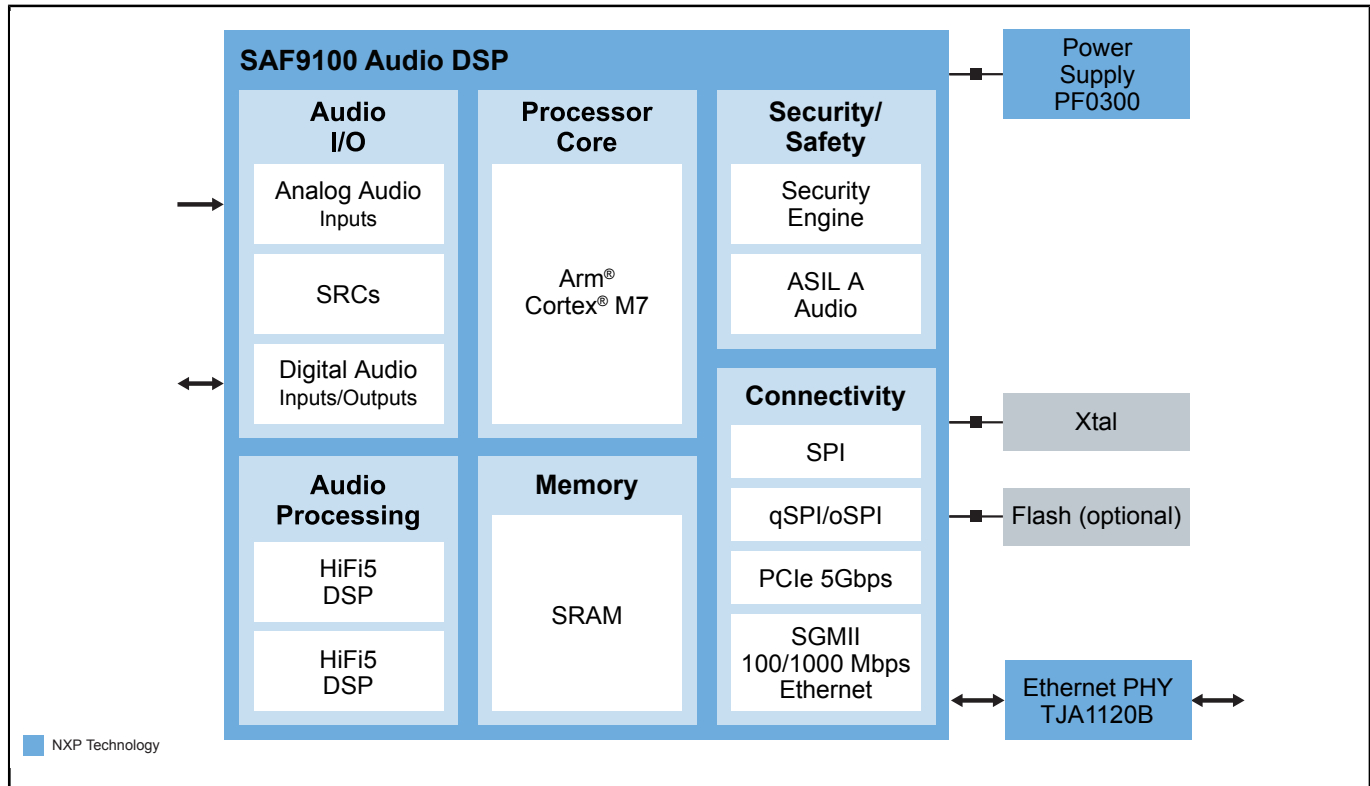
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The SAF9100 is an automotive audio one-chip solution enabling car infotainment for the software defined car. It includes two open core latest generation audio DSPs that can satisfy today's and tomorrow's audio processing demands for entry level, mid-range and high-end audio applications. In addition, the SAF9100 has an embedded MCU and comprehensive connectivity including PCIe and Gbit-Ethernet.

The SAF9100 supports AI/ML accelerators and includes NXP's own hardware-based biquad accelerators.

The SAF9100 hardware and enablement (documentation, software and boards) are available for selected customers with an approved NDA. For additional information and availability, contact support or your local sales representative.

SAF9100 Block Diagram

SAF9100 Audio DSP			Power Supply PF0300

Audio I/O
- Analog Audio Inputs
- SRCs
- Digital Audio Inputs/Outputs

Processor Core
- Arm® Cortex® M7

Security/ Safety
- Security Engine
- ASIL A Audio

Connectivity
- SPI
- qSPI/oSPI
- PCIe 5Gbps
- SGMII 100/1000 Mbps Ethernet

Audio Processing
- HiFi5 DSP
- HiFi5 DSP

Memory
- SRAM

Xtal

Flash (optional)

Ethernet PHY TJA1120B

NXP Technology

View additional information for One-chip Solution, Scalable Audio DSP Processing with AI/ML Capability.

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