

R-Car M3Le

Automotive System-on-Chip (SoC) for Medium-Class Automotive Computing Systems

Description

The R-Car M3Le (R8A779MD) is an automotive System-on-Chip (SoC) for medium-class automotive computing systems. It can be used in a wide range of automotive applications requiring medium-class computing, including in-vehicle infotainment, low-end integrated cockpit, digital cluster, connected gateway, and central server.

The R-Car M3Le is compliant with the ISO 26262 (ASIL-B) functionality safety standard for automotive, and has enhanced security functions.

Features

- 2x Arm® Cortex®-A57 Dual for application processing
- 1x Arm Cortex-R7 dual-lockstep CPU cores for real-time processing
- Imagination Technologies' PowerVR® Series 7XE GE7800 for 3D graphics
- Display OUT, Video IN, Video Codecs, and Image Renders (IMR) for camera image distortion correction
- Peripherals: PCIe, USB, Ethernet, CAN, SPI, etc.
- LPDDR4 memory support with ECC
- Compliant with ISO 26262 (ASIL-B) functionality safety standard for automotive

Applications

- Digital cluster
- 2-wheeler cockpit
- In-vehicle infotainment
- Low-end integrated cockpit
- Connected gateway

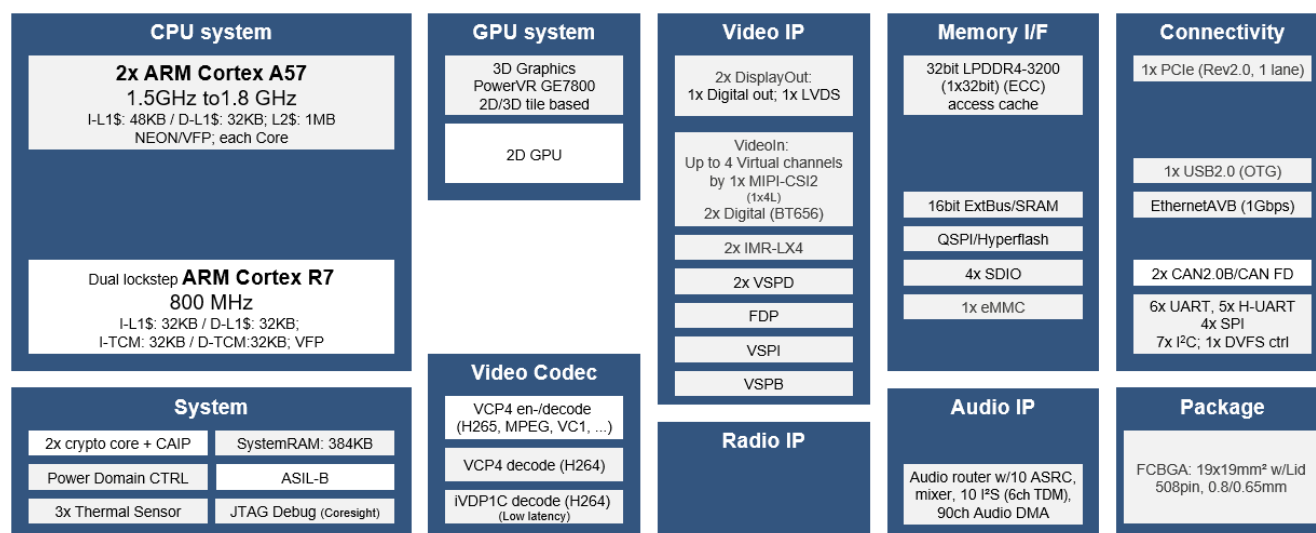


Figure 1. R-Car M3Le Block Diagram

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