

MT8362B Platform

Wireless Connected Audio Solution

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MT8362B Platform is a highly integrated solution for wireless connected audio systems incorporating a power efficient Quad-core Arm® Cortex®-A35 processor operating at 1.3 GHz. The support for various DRAM interfaces (LPDDR3, DDR3L, DDR4) and Flash storage solutions (eMMC™, Raw NAND) provides high flexibility in the memory configuration. With several I2S interfaces as well as 8-channel TDM audio input and 8-channel TDM audio output MT8362B can process algorithms for multiple high-resolution audio streams at the same time. This rich set of interfaces provides a system BOM cost reduction by eliminating the need of external DSP solution.

MT8362B paired with MT7668 offers a complete Connected Platform. The MT7668 connectivity chipset combines a dual-band 2x2 802.11ac Wi-Fi with MU-MIMO and the latest Bluetooth® 5 wireless technology together in a single package. The optimized RF architecture and baseband algorithms provide superb performance and low power consumption. MT7668 is designed to meet a diverse set of home connectivity needs. It can stream high definition

multimedia with low-latency over 802.11ac Wi-Fi at up to 867Mbps to/from home or mobile devices or multimedia equipment such as wireless connected audio systems/soundbars.

MT8362B Platform power management solution is based on MT6392 PMIC supplying various power rails for the platform chipsets and other system needs.

64-bit CPU

- Quad-core Arm® Cortex®-A35 processor operating at 1.3 GHz with DVFS
- Most power efficient 64-bit Armv8-A processor with full Armv7-A compatibility
- Arm® NEON™ advanced SIMD extension

MT8362B

| | |
|----------------------|---|
| CPU | 64-bit Quad-core Arm Cortex-A35 up to 1.3 GHz |
| Memory | 32-bit LPDDR3/DDR3L up to 800 MHz 32-bit DDR4 up to 667 MHz |
| Flash | eMMC SLC NAND |
| Storage | SD Card |
| Interfaces | I2C, UART, SPI, SDIO3.0, USB2.0 OTG and Host, Ethernet |
| Audio Codec | Integrated audio stereo ADC and stereo DAC |
| Audio Inputs | Up to 3 analog or 2 digital microphones 8-channel TDM for microphone-array I2S x2 S/PDIF |
| Audio Outputs | Line Out Headphone 8-channel TDM I2S x2 S/PDIF |
| Connectivity | Dual-band 2x2 802.11ac Wi-Fi Bluetooth 5 |

Microphone-array multi-channel audio input and audio front-end algorithms support

- Wake-word engine
- Far-field
- Beamforming
- Acoustic Noise Reduction
- Acoustic Echo Cancelling

Multi-channel high-resolution audio output

- TDM interface to up to 8-channel DAC
- 192kHz/24-bit

Connectivity IC (MT7668)

- Dual-band (2.4 GHz and 5 GHz) 2x2 802.11ac Wi-Fi with MU-MIMO
- Bluetooth 5

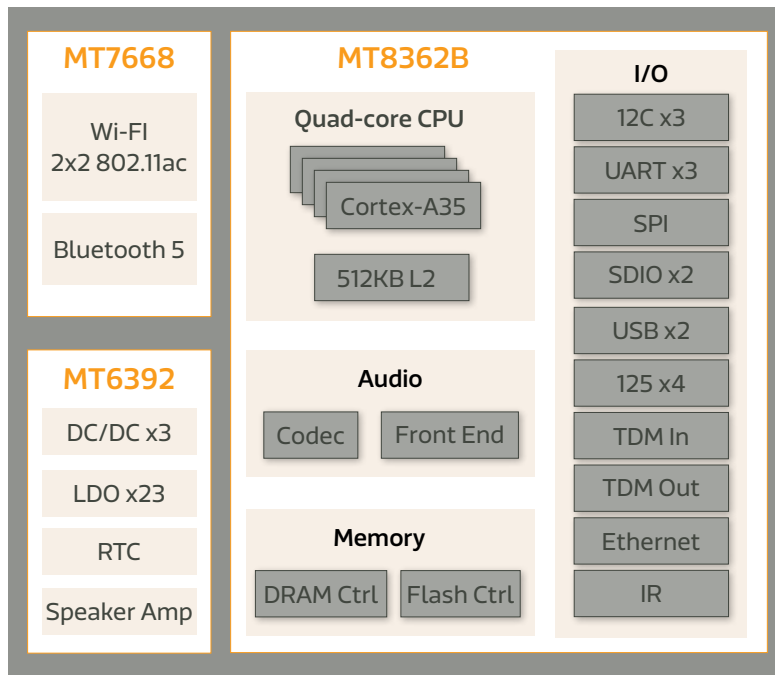
Integrated Power Management IC (MT6392)

Linux BSP support and Evaluation Kit available

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BENEFITS

- Quad-core Arm Cortex-A35 64-bit processor
- Flexible DRAM and Flash memory interfaces
- Integrated stereo audio codec
- Rich audio interfaces to support various microphones and speakers configurations
- Multi-channel high-resolution audio up to 192kHz/24-bit
- 10/100 Ethernet MAC with RMI interface
- Advanced Wi-Fi/Bluetooth connectivity

APPLICATIONS

- Voice Assistant
- Smart Speaker
- Soundbar
- Wireless Connected Audio System
- Internet of Things