







THE WORLD'S FIRST WI-FI SPEAKER DEDICATED PROCESSOR

Overview

The Allwinner G202 is a dual-core ARM Cortex™-A7 processor targeted at the Wi-Fi speaker market. It is a fully integrated dedicated audio system and features Wi-Fi wireless playback, includes audio codecs with 24bit/192KHz DAC playback and supports for popular digital audio interfaces (I2S/PCM,DSD,DMIC,SPDIF). The G202 enables a high fidelity (Hi-Fi) audio experience for home entertainment, education, meetings and broadcasting applications,etc.

Highlights

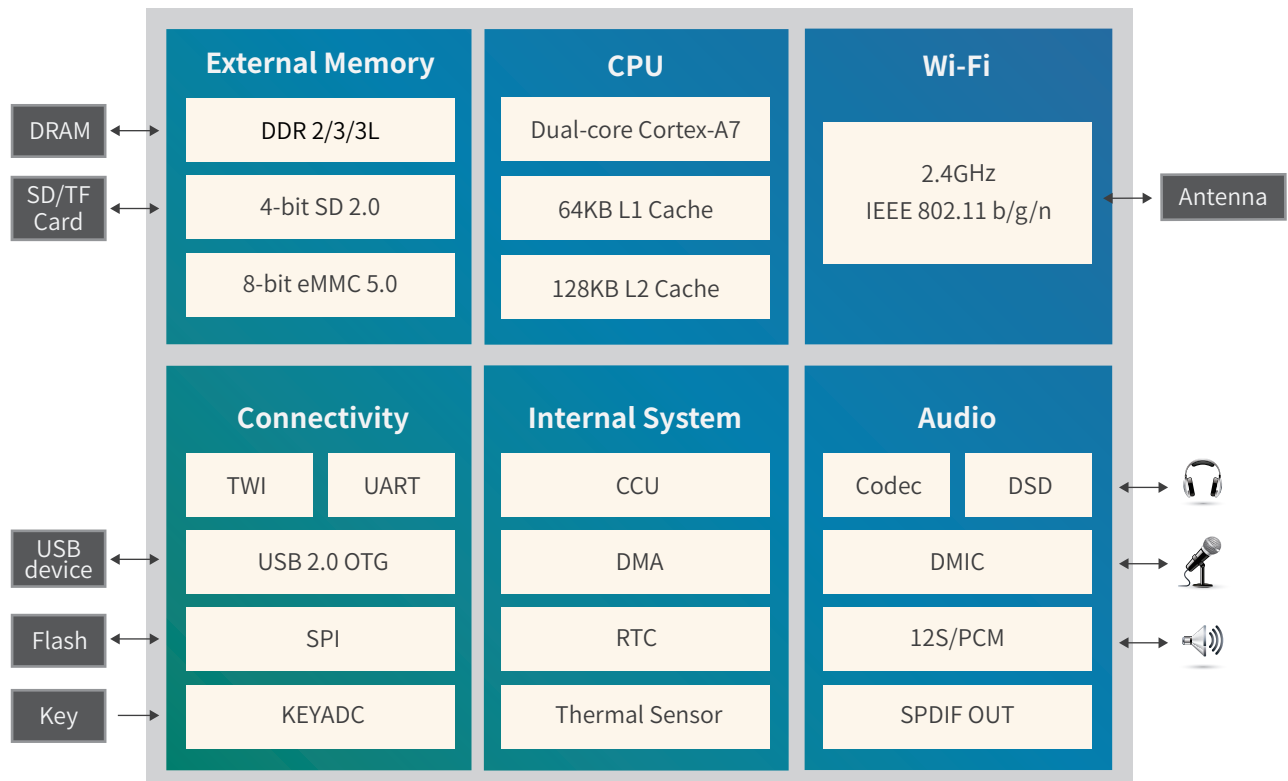
-  Built-in Allwinner Wi-Fi, which can significantly lower the overall system cost.
-  Supports two Time Division Multiplexing mode Inter-IC Sound Bus (TDM I2S) with 384KHz sample rate, which can provide lossless audio quality.
-  Far-field voice recognition hears you from across the room with the array MIC function.
-  Immerse yourself in a high-definition, detailed surround sound experience with Direct Stream Digital (DSD) interface.
-  Supports Linux 3.10 and Android 4.4 System.
-  Tether device to a smartphone or tablet for remote activation.

Features

| | |
|--------|--|
| CPU | <ul style="list-style-type: none"> • Dual-core ARM Cortex™-A7 Processor |
| Memory | <ul style="list-style-type: none"> • Supports DDR2 /DDR3 /DDR3L SDRAM • eMMC 5.0, SD 2.0 compliant |
| Audio | <ul style="list-style-type: none"> • Supports 24bit/192KHz audio playback |

| | |
|-------------|--|
| | <ul style="list-style-type: none"> • Supports two I2S/PCM interfaces up to 384KHz sample rate, and 16 channel TDM with 32bit sample resolution • Supports DSD interface with 2 channels, 64/128/256bit sample mode • Supports DMIC interface with 8 channels, maximum 48KHz sample rate • Supports SPDIF OUT interface |
| Wi-Fi | <ul style="list-style-type: none"> • Supports 802.11 b/g/n protocol • Full security support: WPS, WPA, WPA2, WEP, TKIP |
| Integration | <ul style="list-style-type: none"> • Supports USB 2.0 OTG, UART, SPI, TWI |
| Package | <ul style="list-style-type: none"> • FBGA 236 balls, 11 x 11 mm, 0.65 pitch |

Block Diagram



ABOUT ALLWINNER

Allwinner Technology is a leading fabless design company dedicated to smart application processor SoCs and smart analog ICs. Its product line includes multi-core application processors for smart devices and smart power management ICs used by brands worldwide.

With its focus on cutting edge UHD video processing, high performance multi-core CPU/GPU integration, and ultra-low power consumption, Allwinner Technology is a mainstream solution provider for the global tablet, internet TV, smart home device, automotive in-dash device, smart power management, and mobile connected device markets. Allwinner Technology is headquartered in Zhuhai, China.

CONTACT US

For more product info, please contact service@allwinnertech.com, or scan the QR code to follow us on Wechat.

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