

TM2115 (AR801) 2.4GHz Audio SiP for 24Bit/48K sampling rate wireless audio

Introduction

The SiP is an Audio IC including 2.4 GHz RF transceiver, Codec, and MCU with one I2S interface. It supports 2Mbps or 5Mbps data rate over air and bandwidth efficient modulation format. Its output power is up to +10/16dBm and -87/-90 dBm sensitivity. Its dimension is 20x20mm with 48 pins package with shielding can.



Applications and Notes

1. 5 or 2 Mbps over-the-air data rate, selectable,
2. Bandwidth-efficient modulation format
3. Excellent link budget with programmable output power up to +11/17dBm and -87/-90dBm sensitivity
4. Frequency Hopping, Receiving mode / Transmitting mode, Idle / sleep mode, Re-transmit
5. Mute and CRC
6. Codec selectable
7. Applications: Wireless Sound bar, Wireless earphone, Wireless speaker 2.1, 1 to 4 wireless Audio
8. USB dongle ready and UI customized.
9. At high power output, DC must be very clean.

System Block Diagram

