

## TB302 Operation Description

TB302 is multimedia 2.1 channel soundboard. There are two parts of TB302, one is main set, another is 2.4G wireless subwoofer.

In the main set, there is MCU RF21266 which controls the unit. Functions include taking audio signal, checking input signal, managing power source, pairing wireless units, LED displaying and remote receiving. Input circuit can be divided into three items, one is optical signal, the others are simulated audio signal. To use ADC (CS5346) turning the audio signal into digital signal, use UDA1352 to treat optical signal, then transmit to ADC, and use CS5346 to treat audio signal to IC2 digital signal.

The main set uses wireless tx to transmit the signal, and subwoofer uses wireless rx to receive the signal, then transmit to Class D power amplifier (TPA3123).