

This section describes the principle of the TS-KM101 microphone. TS-KM101 is at 2402~2480 MHz, using AC6965E4 Bluetooth microphone chip, antenna using onboard antenna, antenna gain is -0.58dBi. It supports BR + EDR specification. Support GFSK, $\pi/4$ DQPSK, 8DPSK, clock frequency 24MHz.

1. Circuit description

The TS-KM101 is a Bluetooth microphone. The antenna part of Bluetooth chip adopts onboard antenna without antenna matching circuit.

The Bluetooth A2DP protocol handles the demodulation of audio signals and pushes the speaker directly through the chip's built-in DAC and amplifier. External microphones support HSP/HFP protocol invocation.

The rated voltage of the power input is 5V DC. Connect to the M7 charging chip via Micro USB to charge the battery.

The circuit also supports serial communication of UART for debugging.

2. Function description

The TS-KM101 microphone is a mono Bluetooth microphone that can be connected to a primary device such as a mobile phone or computer that plays music to the primary device.

* microphone has 7 buttons, 2 potentiometers, complete the previous/next song; volume addition and subtraction; switch machine; Play / Pause operation. A potentiometer is used to adjust the volume of

thermic , and a potentiometer is used to adjust the reverberation depth.

The two leds show different operating conditions . Charging red light

long bright. The blue light shines when switched on.