

1. Main Chip JL7016C8

CPU

32-bit DSP supports hardware Float Point Unit (FPU) Up to 160MHz programmable processor
64 Vectored interrupts 4 Levels interrupt priority DSP Audio Processing SBC, AAC Audio decodes supported for BT audio mSBC voice codecs supported for BT phone
Supports MP2, MP3, WMA, APE, FLAC, AAC, MP4, M4A, WAV, AIF, AIFC audio decoding
Packet Loss Concealment (PLC) for voice processing
Acoustic echo cancellation/suppression (AEC,AES)
Single/Dual MIC Environmental Noise Cancellation (ENC)
Multi-band DRC limiter
10-band EQ configuration for voice Effects
Audio Codec
One channels 24-bit DAC, SNR $\geq$ 98dB
One channels 24-bit ADC , SNR $\geq$ 104dB
Sampling rates of 8KHz/11.025KHz/16KHz/22.05KHz/24KHz/ 32KHz/44.1KHz/48KHz are supported
One analog MIC amplifier, build-in MIC bias generator
Supports two PDM digital MIC inputs
Two channels Mono analog MUX
Supports cap-less, single-ended, and differential mode at the DAC path
Supports 16ohm and 32ohm Speaker loading
Bluetooth
Compliant with Bluetooth (GFSK, $\pi/4$ -DQPSK, 8DPSK) specification
Fast AGC for enhanced dynamic range Supports

2. Charging circuit .

DC 5V charging, current is 500mA . when charging LED indicator in red , when fully charged , LED indicator turns off

3 Crystal

The clock of bluetooth, frequency is 24MHz, request range is 10ppm

4.power amplifier

One audio power amplifier MIX2018,max power is 3W.

5 BT ANT

PCB ANT

Frequency Range: 2402~2480MHz