

VTB30 Circuit Description

1. The Battery's power(3.7V) provided by USB socket regulated by U2 , LED2 is the indicator for charge, ,the battery supply to Bluetooth module ,DSP ,LED DISPLAY after regulated by IC (U1 .U8 .U11)

2. Bluetooth Module

The bluetooth module come into normal working state after power on , it will communicate with mobile phone after pairing .R1 and R5 sample the battery's voltage , R6 and C1 are the reset circuit for bluetooth module , S1.S2.S3 is function control , SCL and SDA supply to LCM DISPLAY data , PCM_CLK.PCM_OUT.PCM_IN.PCM_SYNC and U6(DSP) paired and communicate with each other , LED1 is the indicator for bluetooth state.

3. LCD1 shows the phone number and the status of the device. U3 is the memory of 32K-Bit.

4. U6 is digital signal processing circuitry, to eliminate echo. The service frequency is 4.096MHz(Y1),8K-Bit is the memorizer U5. R54 and C32 are the IC Reset Circuit. MIC0_P and MIC_N are the input of Microphone, SPKOUT_P and SPKOUT_N are the output of speaker, output the sound signal from other side.

5. U4 is the amplification circuit of the audio signal, amplify the voice signal from U6 and export to the speakers to play through V01 and V02.