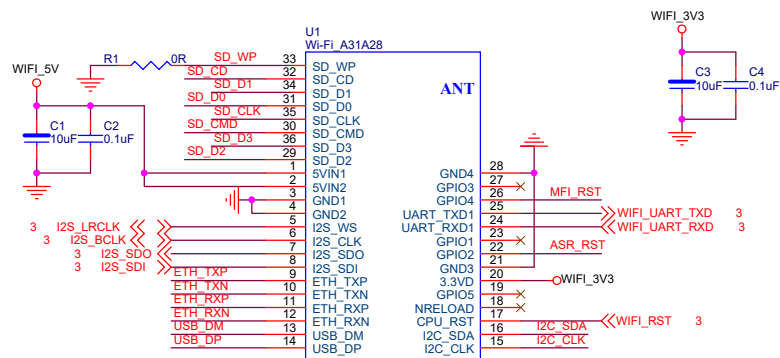
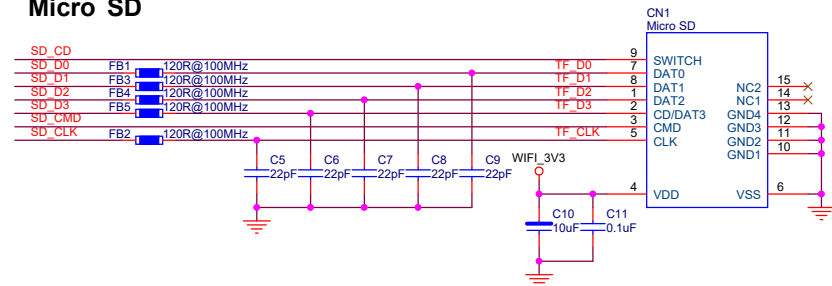


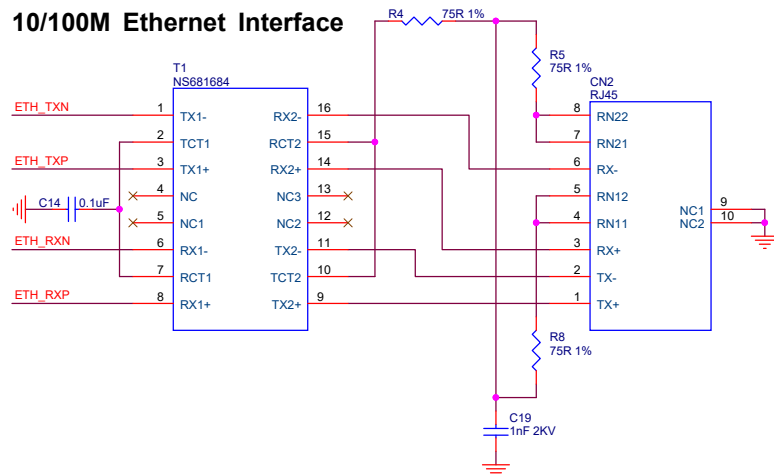
A28/A31 WiFi Audio Module Interface



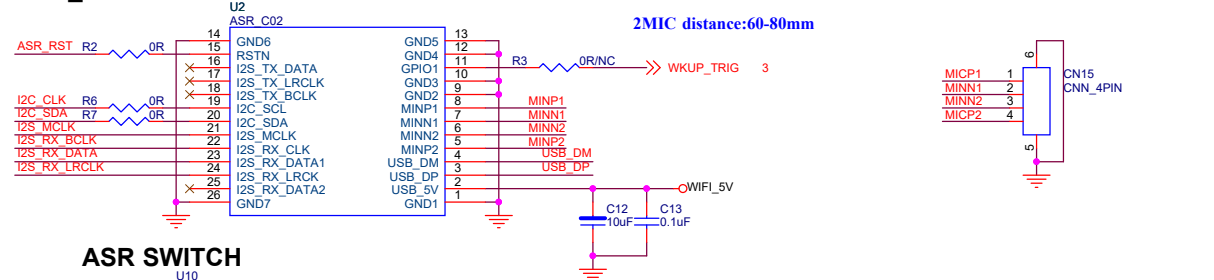
Micro SD



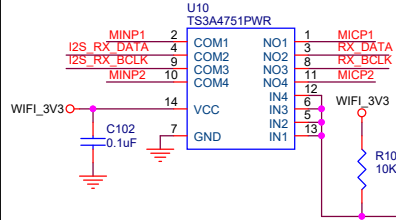
10/100M Ethernet Interface



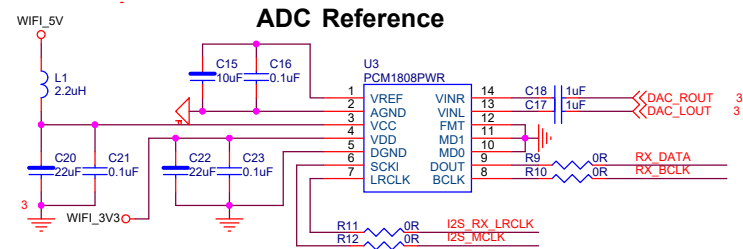
ASR_C02 Module



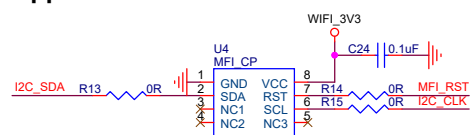
ASR SWITCH



ADC Reference



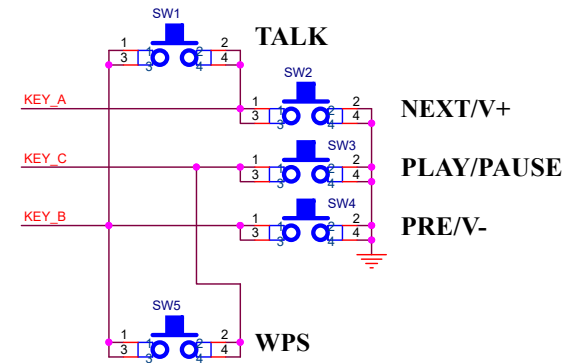
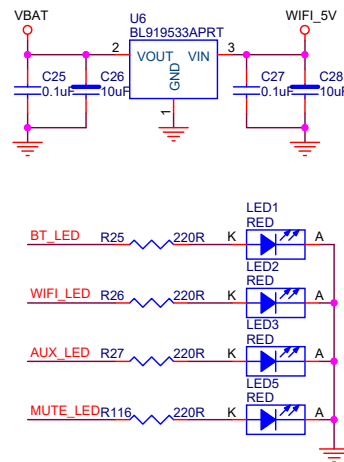
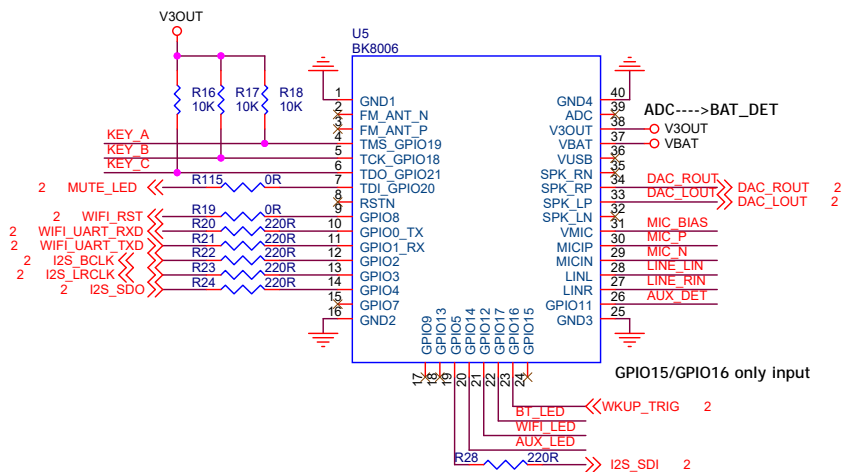
Apple MFi Certification



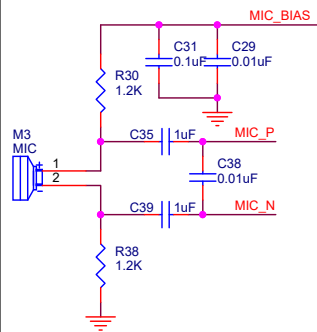
Note:

1. When the microphone is muted, the MIC+ and MIC- signals are required by Amazon, and the mute indicator lights up. So you must use the analog switch, analog switch selection is not specified using the reference design of the TI brand, you can use alternative materials. As the microphone signal is a small signal, so need to use a small impedance of the analog switch, TI brand analog switch on-resistance is 1 ohm, acoustic test can also verify the alternative material, microphone acoustics test results need OK, such as : Sensitivity, frequency response, signal to noise ratio and other parameters.
2. Cut off the reference signal is not Amazon's request, because the microphone no input signal in the case of continuous transmission of the reference signal, may cause the C02 module work exception. Therefore, in the silent state can be cut off the software through the reference signal, that is no problem. The use of software to cut off the way you need to do the test, after the release of the reference signal to be silent within 100 milliseconds to recover.
3. Using the analog switch to cut off the reference signal, it is not necessary to use the reference design of the four analog switches, you can use dual analog switch to cut the microphone signal, you can use another analog switch or digital switch to cut off the two reference signals, The oscilloscope measures whether the waveform is normal after passing through the switch circuit. If you choose two two-way switching lines, it will make the layout alignment easier.

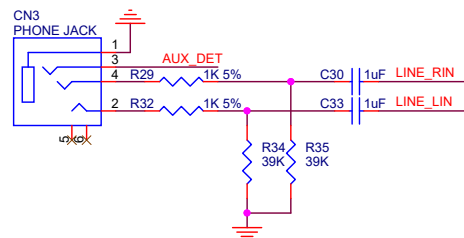
Bluetooth BK8006



Microphone Input



LINE IN



Analog AMP <---- DAC Output

