

The circuit description of SIP-T58V and SIP-T58A and SIP-T56A

The T58V/T58A/T56A is a smart media phone with Android system. The CPU of them is RK3128 made by Rockchip. Quad-core Cortex-A7 is integrates with separately Neon and FPU coprocessor also shared 256KB L2 Cache. Mali400 MP2 GPU is embedded to support smoothly high-resolution (1080p) display and mainstream game.

The whole system can powered by 5V/2A adapter and PoE. Crystal 24MHz provides reference frequency to the RK3128, the internal module of phase-locked loop doubled the frequency to various frequency for each modules. he frequency of DDR3 is 396MHz. The T58V/T58A also support USB Camera of H.264 720p 30fps, SIP-T58V is packaged with Yealink USB Camera. SIP-T58A without the Additional purchase. SIP-T56A doesn't support USB Camera.

The Audio Codec is ALC5640 .The ALC5640 is a low-power stereo audiocodec with stereo headphone amplifier, as well as multiple inputs and outputs programmable in single-ended or fully differential configurations extensive register-based power control is included enabling stereo 48-kHz DAC

SIP-T58V/SIP-T58A/SIP-T56A are equipped with AP6212 WIFI/BT module which support WiFi 11b/g/n and Bluetooth 4.0. Crystal 26MHz provides basic reference frequency to the WiFi module , the internal module of phase-locked loop doubled the frequency to 2.4GHz. Crystal 32.768KHz provides based the reference frequency to the BT module, the internal module of phase-locked loop doubled the frequency to 2.4GHz, the WiFi or BT signals transmits through the external antenna.