Circuit Description

* The product can control the color and brightness of one RGB LED channel and the brightness of one white LED channel via MCU (TLSR8362) and Wi-Fi module Tuya WB3S.
All the operation is cloud controlled after tuya module is wifi connected to network.
* Users can control and change colors and brigtness though the product buttons and phone APP, and mainly work as mood light, lighting, creative decoration and warning etc.
* Power supply is a external 5V 2A adapter (no constant current 2A, the acutal current consumption depends on the actual lighting mode), 5V will be transformed as 3.3V to supply module and MCU by inner DC/DC transformer, the other channel feeds RGB LED and white LED.
* Control is via MCU (TLSR8362) to have white LED drive and RGB LED data stream transmitted, and respond for button and mic signal at the same time.
* Wi-Fi module Tuya WB3S is for achieving the cloud issued instructions to have APP control function after connected with network by wifi, and respond to MCU signals though interal communications