CIRCUIT DESCRIPTION

Overall description of the circuit:
* This product uses MCU (TLSR8362) and WI-FI module TUYA TYWE3S to control the chromaticity and brightness of a string of colorful lights and the brightness of a warm light.
All operations are finally completed by the TUYA module wifi link to the network to achieve cloud control function.
* Various colors and brightness of the light board can be controlled through the panel buttons and mobile phone APP, mainly used in ambient lights, lighting, creative lights, warning reminders, etc.

Power supply part: external 12V3A adapter provides power supply for the whole machine. (Non-constant current 3A, the actual current consumption is determined by the working mode of the lamp). The 12v is transformed into 3.3v by the internal DC/DC converter for the main control MCU. The other is directly to the light board, which is converted to 5v by the light board's DC/DC converter to supply power to the phantom LED.

Control part: This product is realized by the MCU (TLSR8362) of the machine's LED white light drive and phantom color LED data flow, while responding to external buttons and mic signals.
The TUYA module TYWE3S is responsible for linking to the network in the form of wifi, and realizes the APP control function issued by the cloud from the mobile phone smart terminal. And through the internal communication interconnection to realize the response call of the mcu native function.