

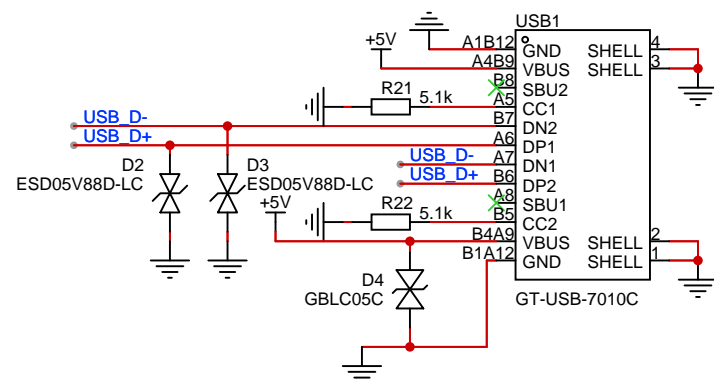
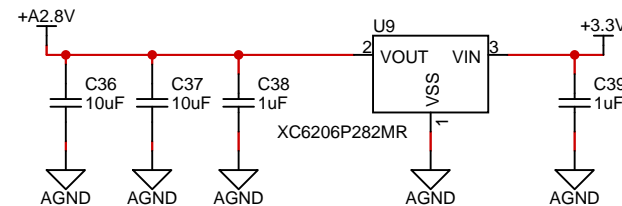
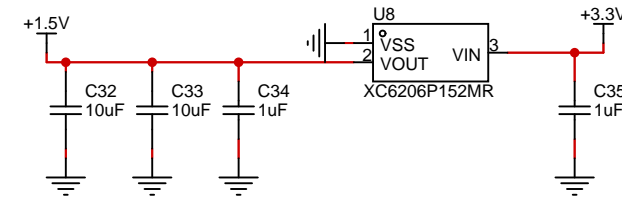
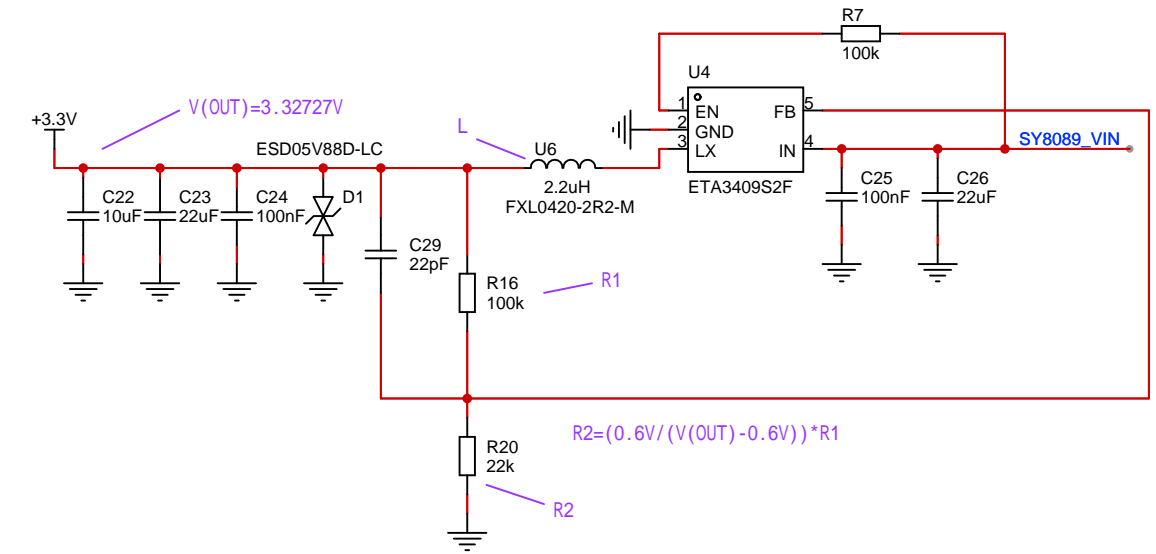
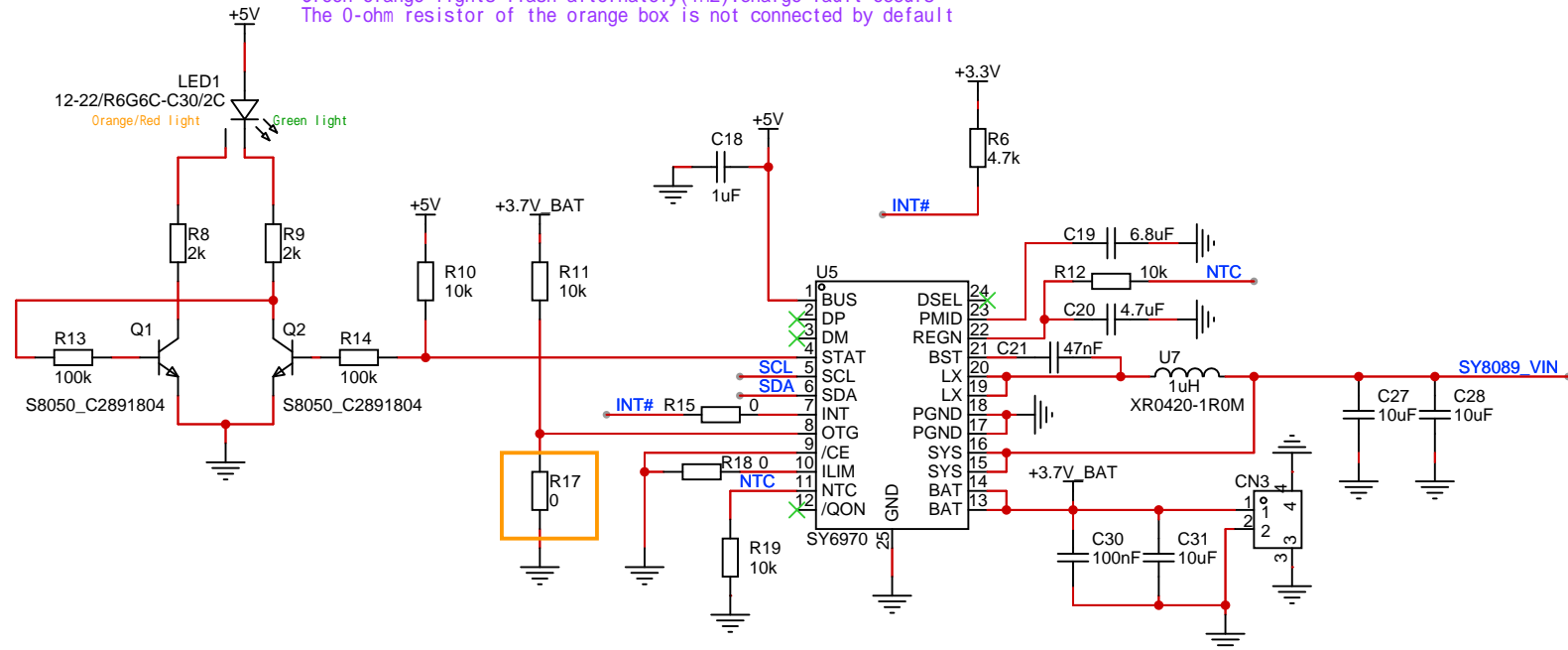
Project: T-CameraPlus-S3	Page: MCU	Ver: V1.1
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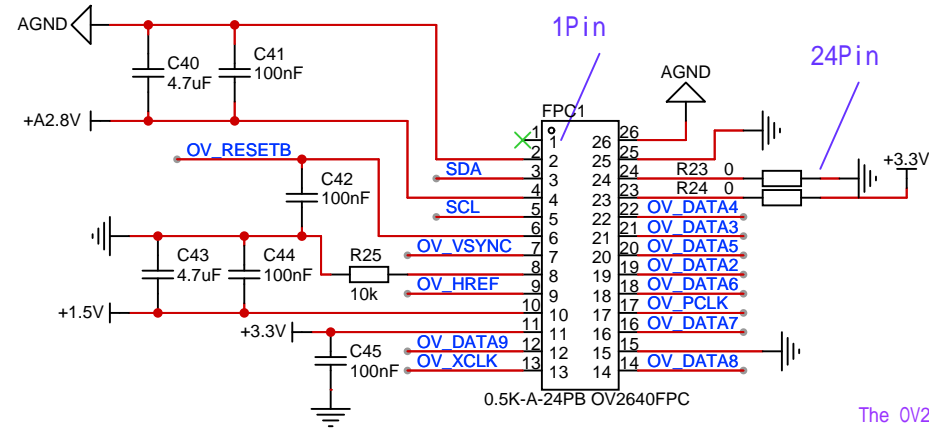


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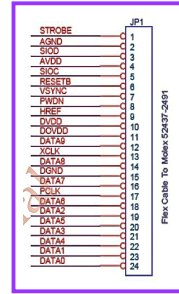
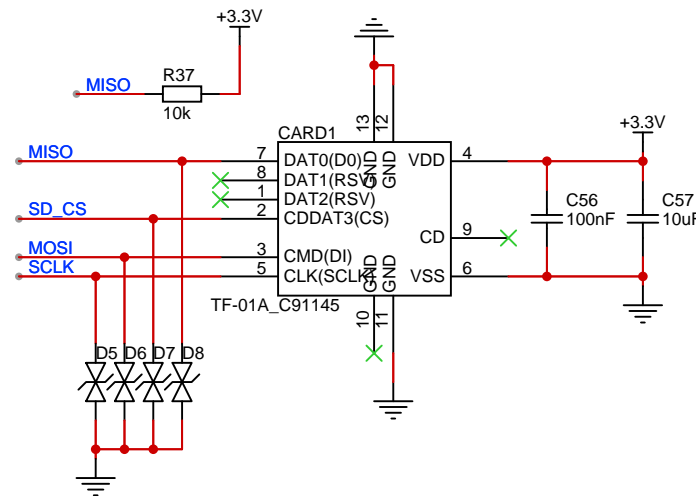
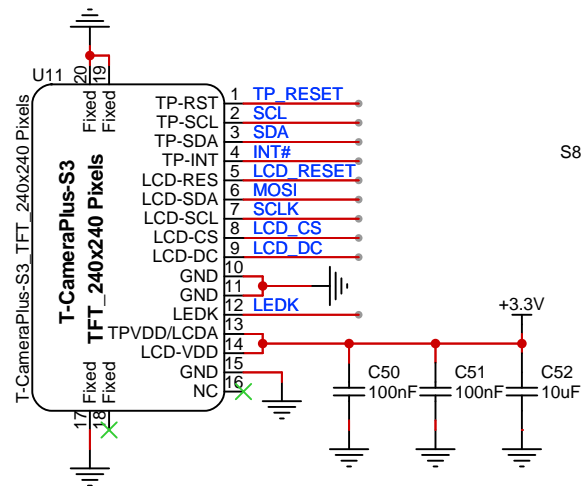
Data: 2023-08-18 LastEditTime: 2024-06-06

Green light: charge done or charge disabled
 Orange/Red light: charge in progress
 Green-orange lights flash alternately(1Hz): charge fault occurs
 The 0-ohm resistor of the orange box is not connected by default





The OV2640 pin tag reference diagram



Default mode: I2S/LJ GAIN 6dB
Attention: Over 6dB may cause broken sound
The 0-ohm resistor of the orange box is not connected by default
Blue box selects the mode

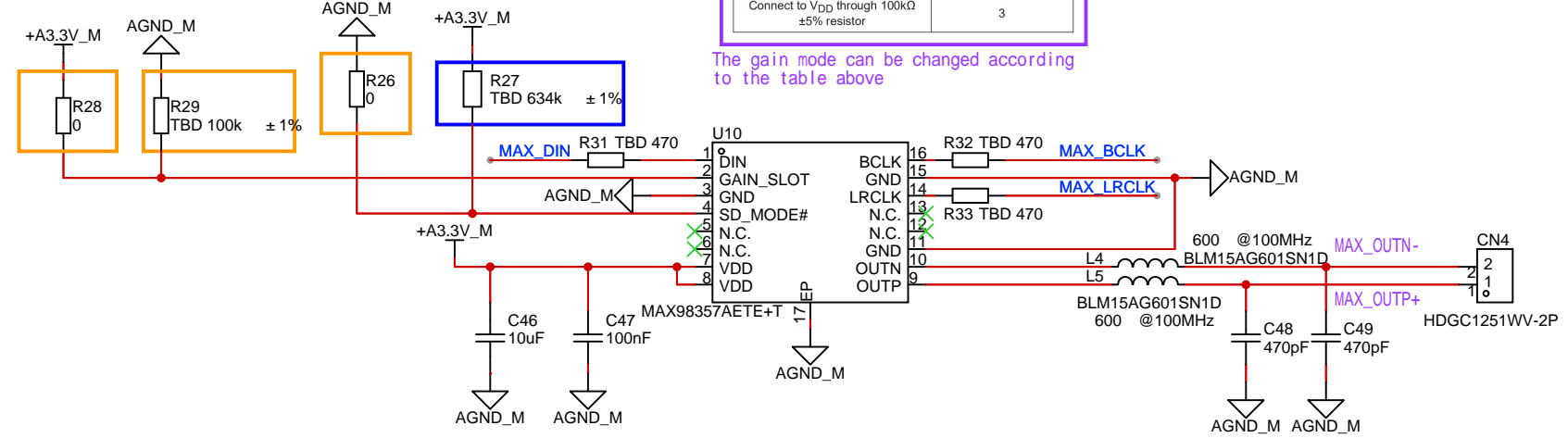


Table 5. SD_MODE Control

SD_MODE STATUS	SELECTED CHANNEL
High	VDD_MODE > B2 trip point
Pullup through R_SMALL	B2 trip point > VDD_MODE > B1 trip point
Pullup through R_LARGE	B1 trip point > VDD_MODE > B0 trip point
Low	B0 trip point > VDD_MODE
	Shutdown

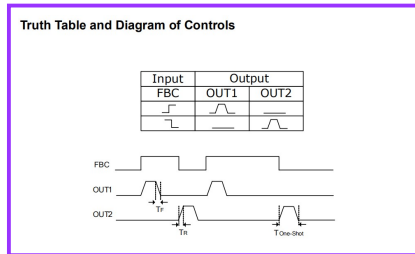
Table 6. Examples of SD_MODE Pullup Resistor Values

LOGIC VOLTAGE LEVEL (VDD) (V)	R_SMALL (kΩ)	R_LARGE (kΩ)
1.8	60.8	300
3.3	210.2	634

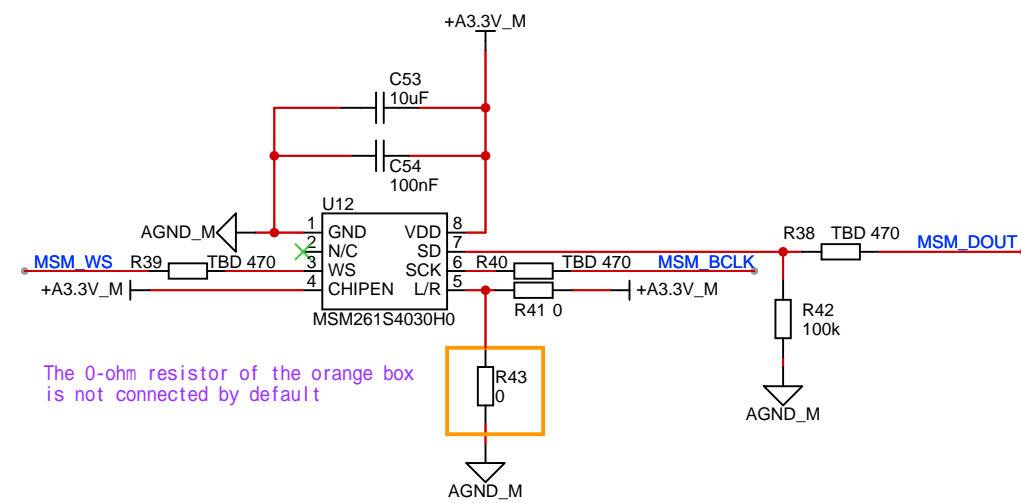
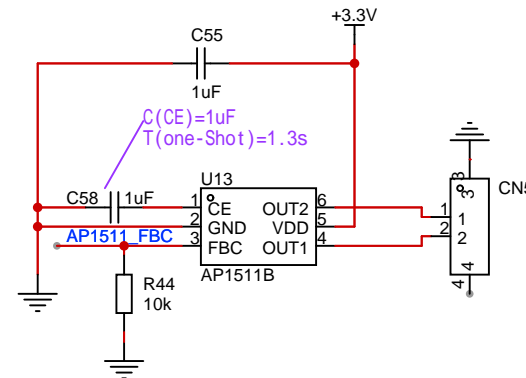
Table 8. Gain Selection

GAIN_SLOT	I2S/LJ GAIN (dB)
Connect to GND through 100kΩ ±5% resistor	15
Connect to GND	12
Unconnected	9
Connect to VDD	6
Connect to VDD through 100kΩ ±5% resistor	3

The gain mode can be changed according to the table above



The period of TOne-Shot is determined by the external capacitor connected on CE pin. It can be estimated from the equation:
 $T(\text{one-Shot}) = 1.3 \times 10^{-6} \times C(\text{CE})$ (second)



The 0-ohm resistor of the orange box is not connected by default

Project:
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