



Version:

1C: 2019-2-14, xubh

1. Add R50 to set IO12 low when power on to set SPI work at 3.3V
2. Change LCD-SPI to IO12-15: IO0<->IO15, IO16<>IO13, IO17->IO14, IO4->TOUCH, IO17->I2S\_DO  
V4 and SW2 change to IO4
3. Add a LDO for good price
4. Change R42, R43 to 1K;  
Change R54 to DNP
5. Move LED to KEY1-4, Delete Q1,R14->1K connect to LCD\_RS; Add C27-C30 as hw filter , DNP R27,R30,R31,R32
6. Change R6 to GND, R7 to VCC, config LCD working in 4line mode
7. Fix Q2 err, and set it DNP, add V11

1D: 2019-5-28 xubh

1. LCD and SD mux SPI2 interface
2. I2S fix MCLK bug
3. Remove U8, C25; Add J8, J9, G1, Q5, S5
4. LED MUX with zigbee\_uart, I2C\_SDA and SD\_CD
5. Suppot PSRAM, 3g sensor
6. Merge AGND to GND

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