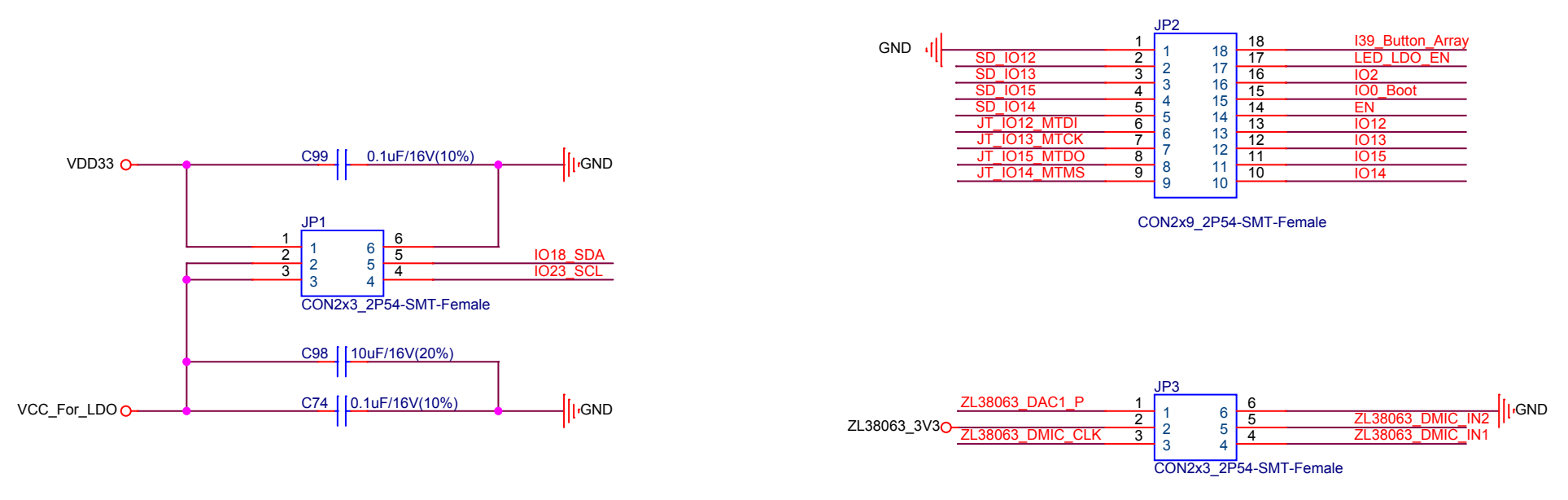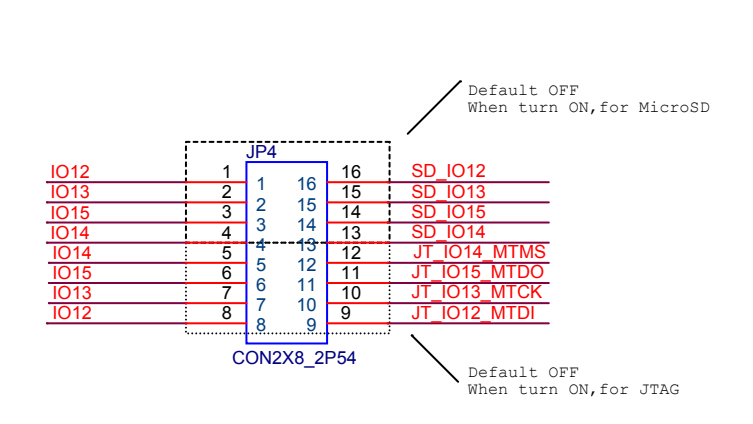This is the subboard of MicroSemiDSP develpoment board.This board mainly contains LEDs display and Key-press function,and also including Reset button and Boot button.

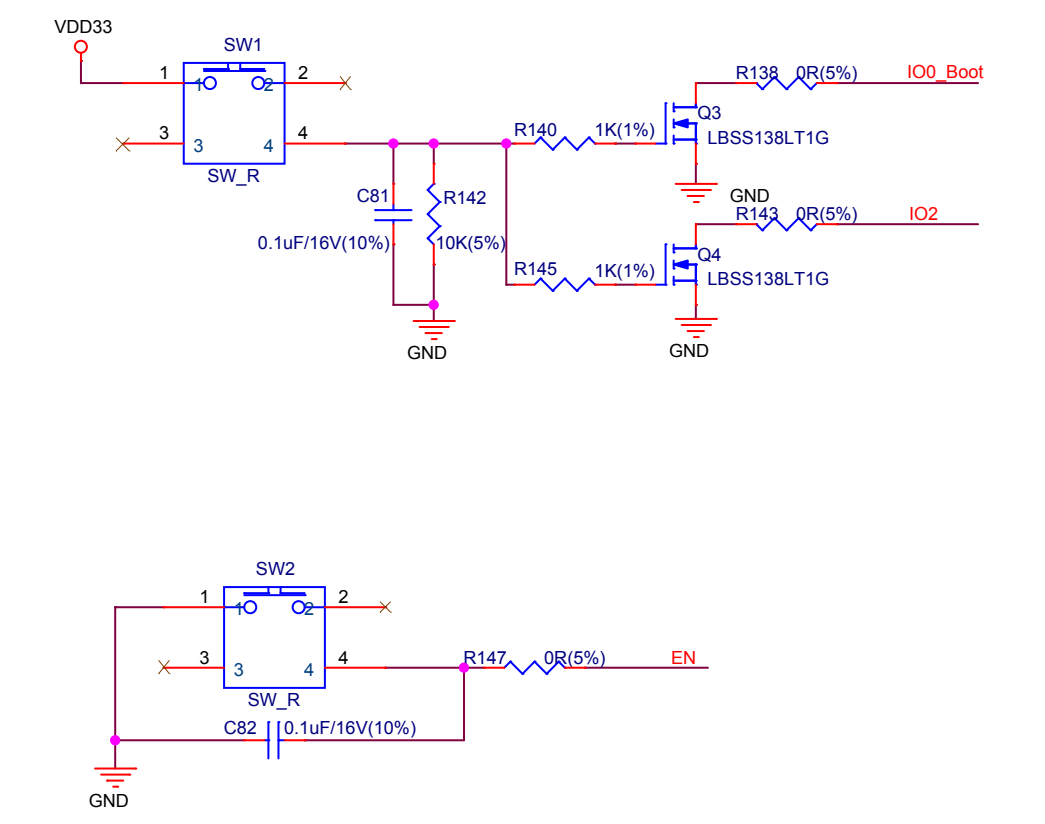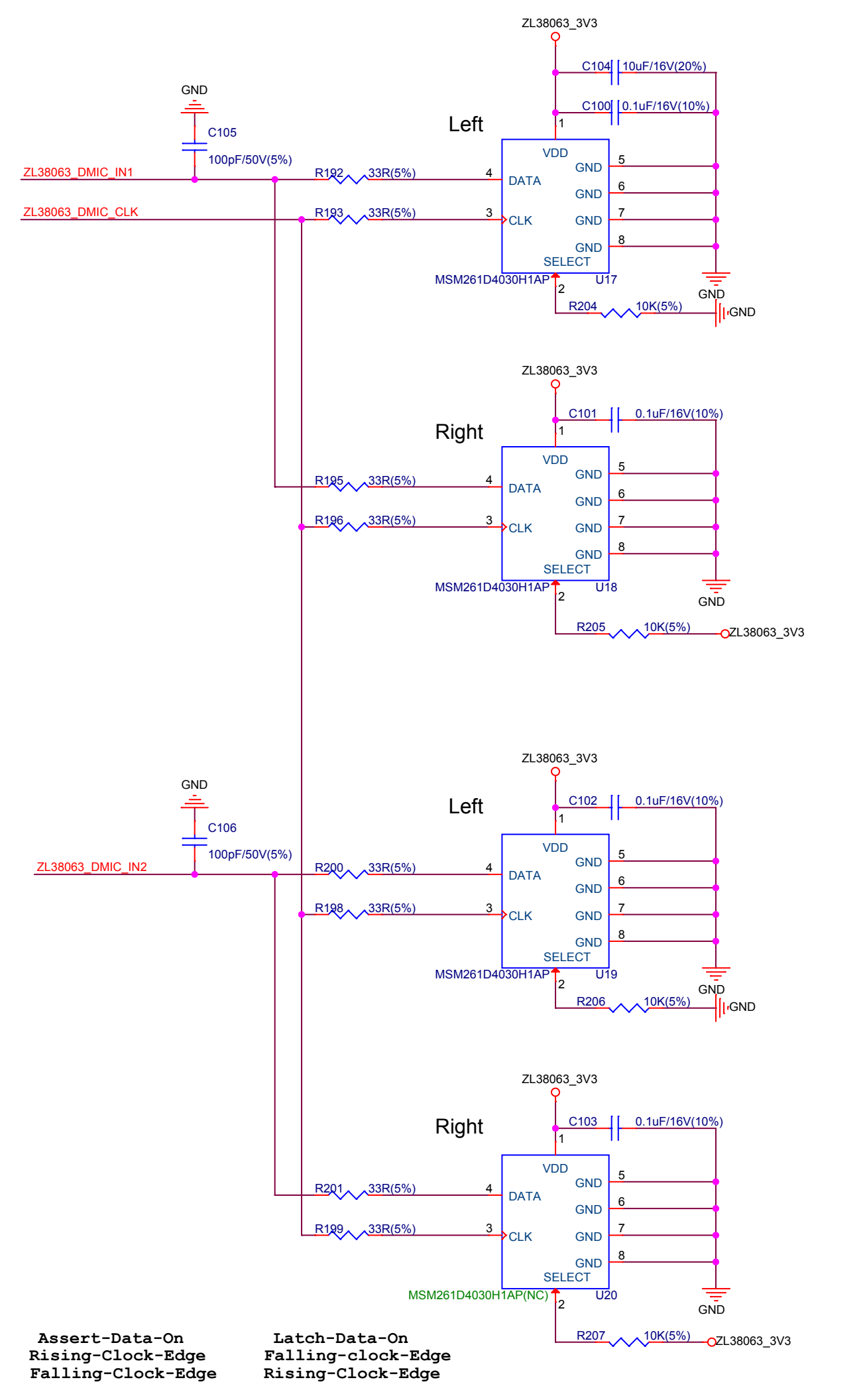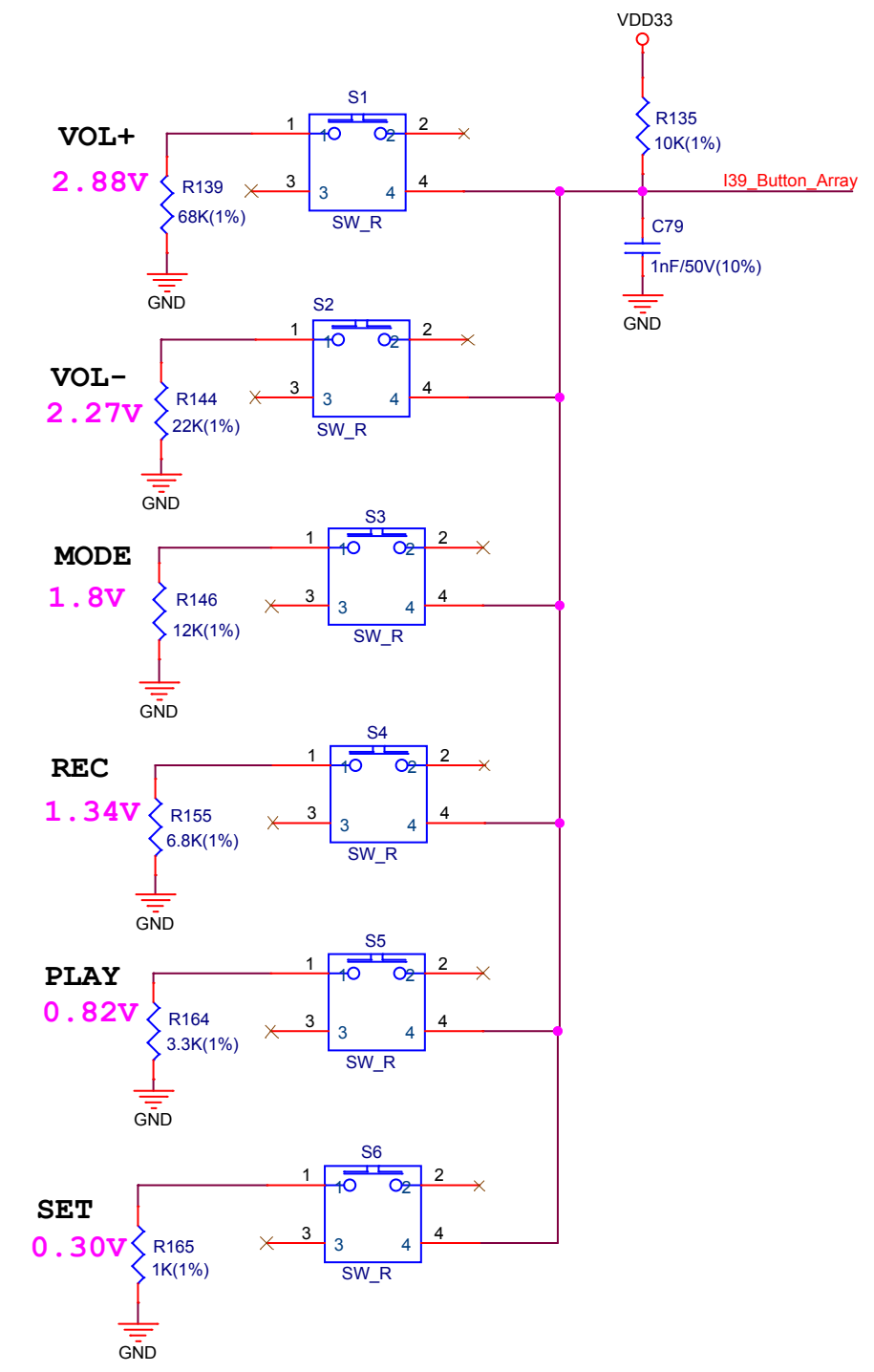**Connectors:**

Switch Keys:

Default OFF
When turn ON,for MicroSD

Default OFF
When turn ON,for JTAG

Reset/Download Button:

MICs:

Left

Right

Left

Right

L/R	Mic	Assert-Data-On	Latch-Data-On
VDD	High	Rising-Clock-Edge	Falling-clock-Edge
GND	Low	Falling-Clock-Edge	Rising-Clock-Edge

6-Physical-Buttons:

VOL+ 2.88V
VOL- 2.27V
MODE 1.8V
REC 1.34V
PLAY 0.82V
SET 0.30V

Power for LED Driver:
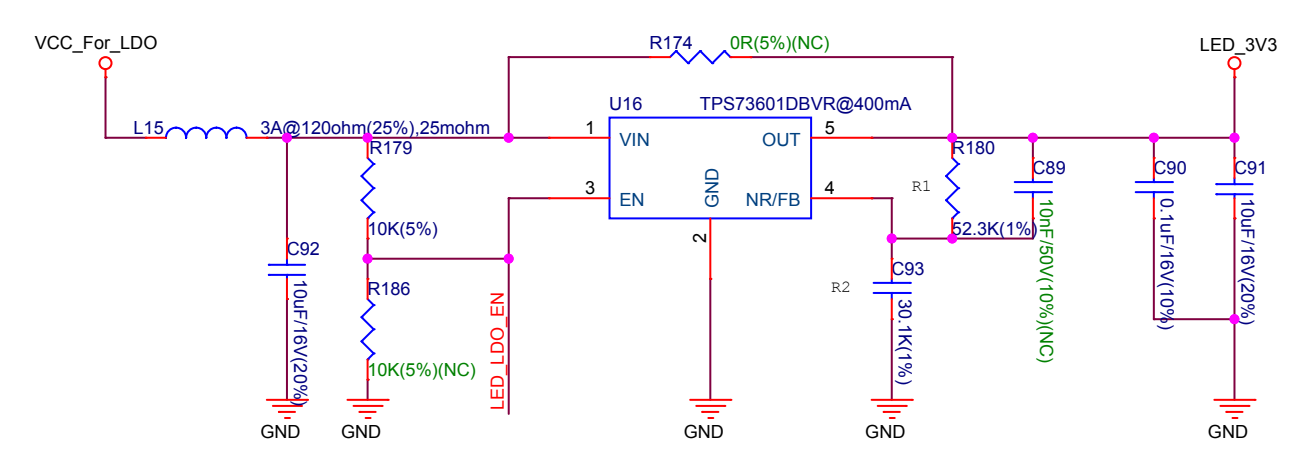
Notes:
1.Vout=1.204*(1+R1/R2)=3.296V;
  R1=52.3K,R2=30.1K are recommended for better performance.
2.RT9043GB from RichTek for second source.

LED Drivers:

CS:011 --- Output current:5mA

System LEDs

AD=0: I2C slave address:0'b 1110 100X;

ESPRESSIF
乐鑫信息科技（上海）有限公司
Title ESP32-LyraTD-MSC_B
Size D   Document Number <Doc>   Rev V1.1
Date: Friday, November 09, 2018   Sheet 1 of 1