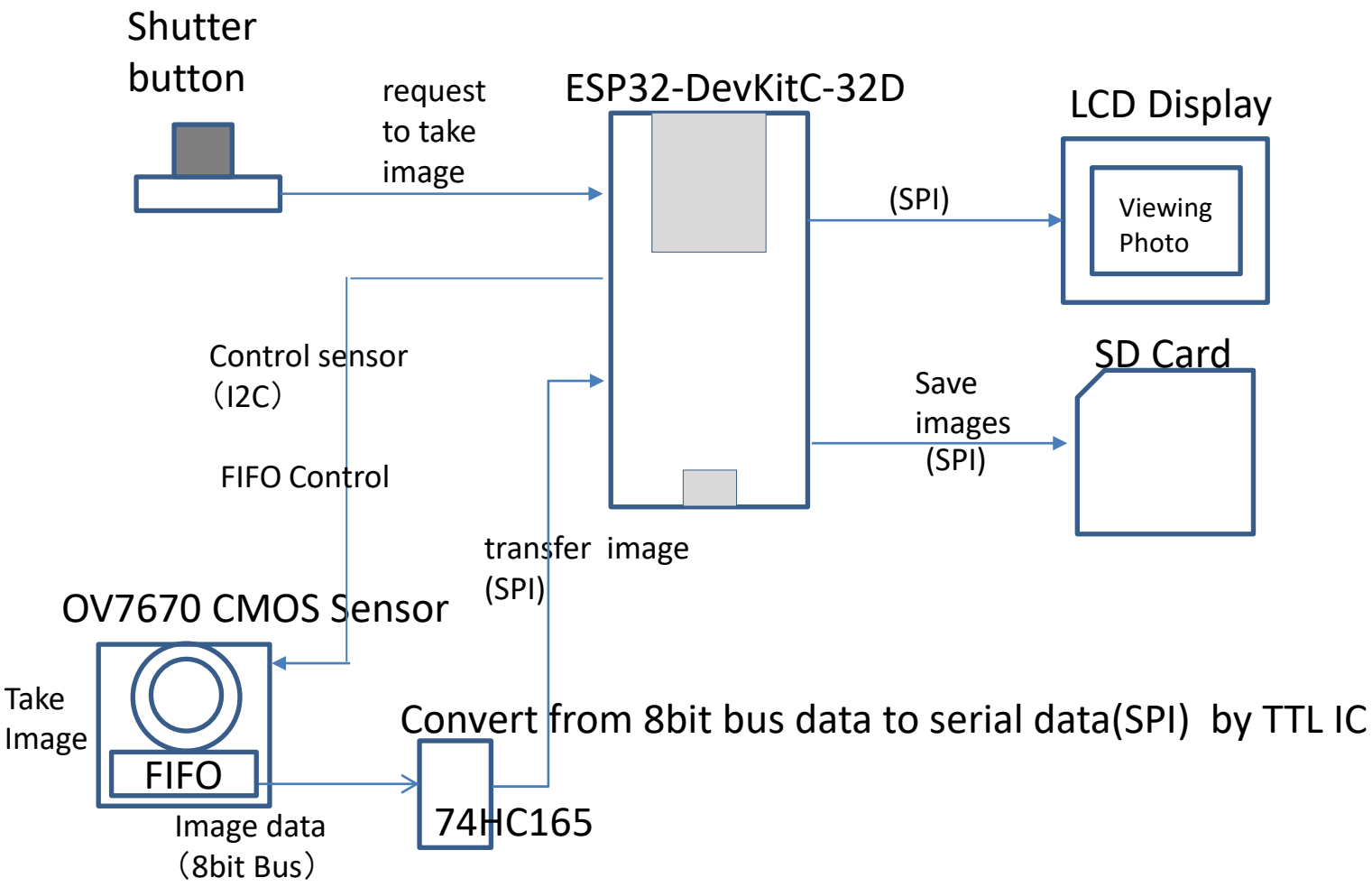
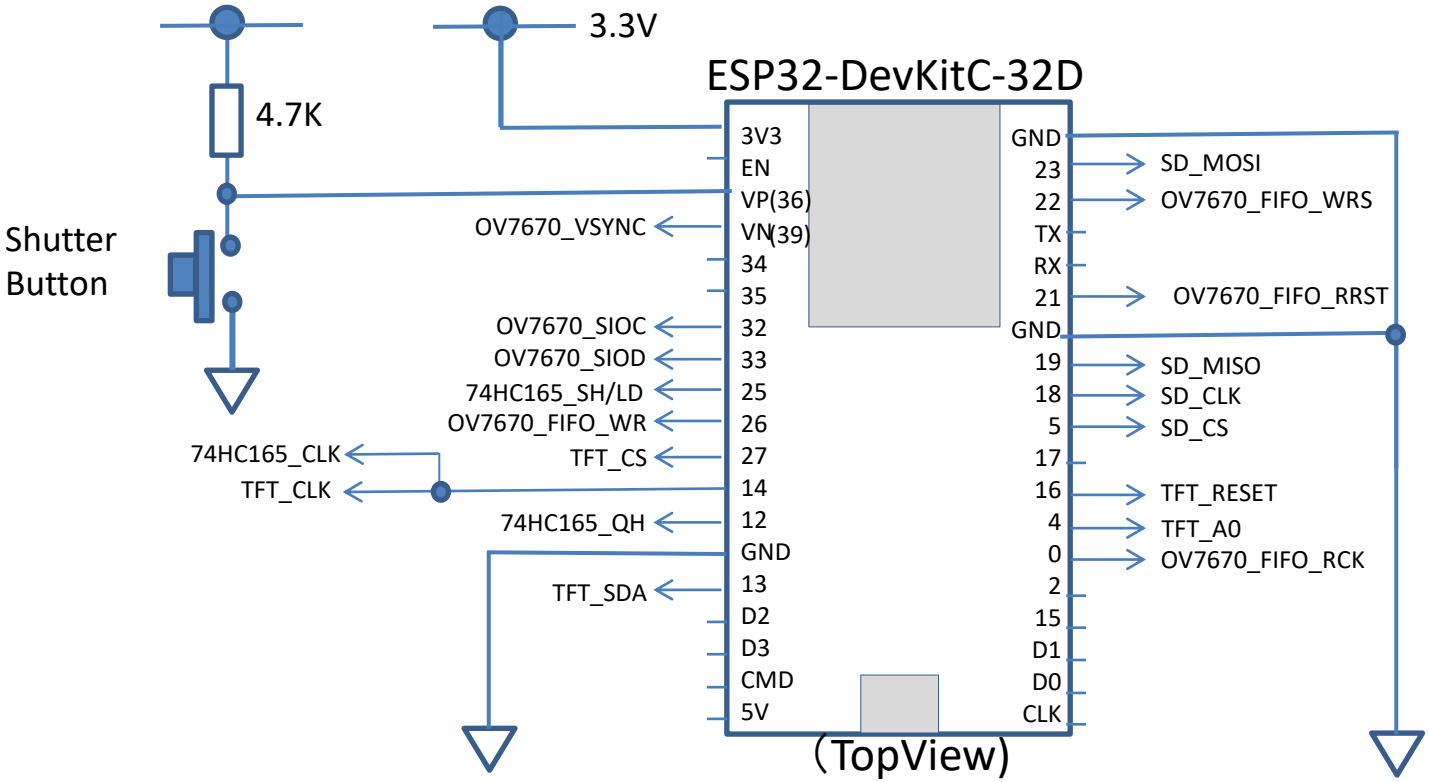
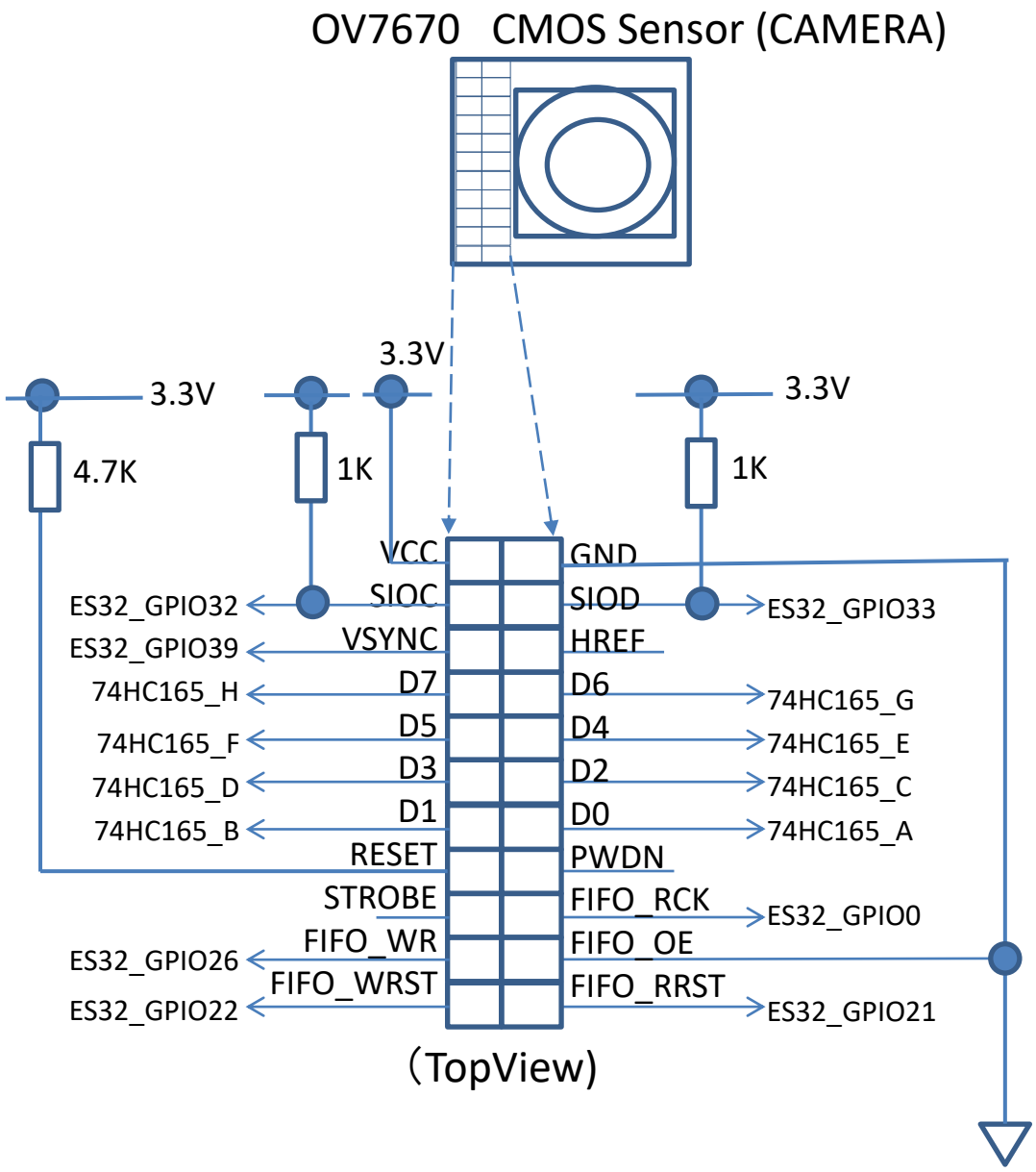
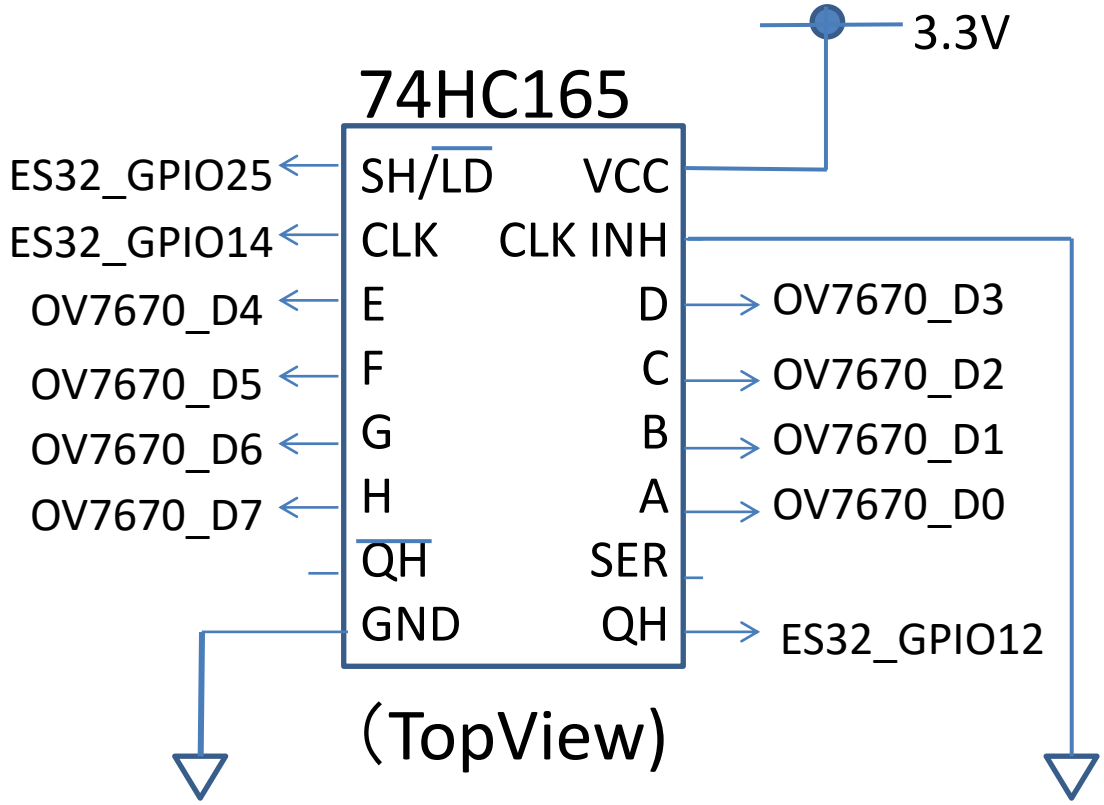
ESP32+OV7670 COMS Sensor

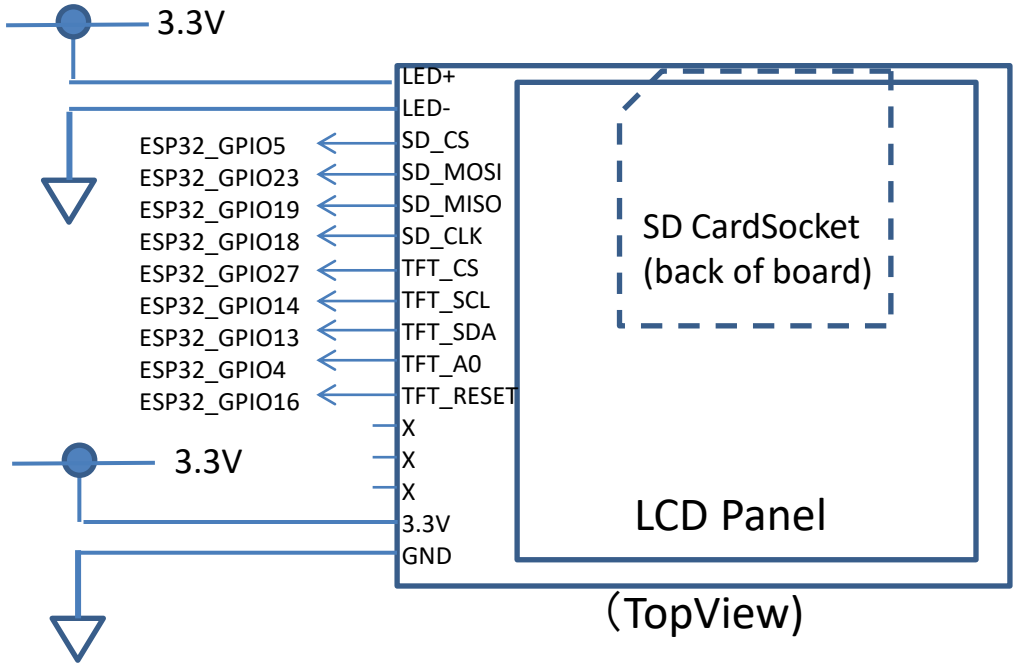



3.3V
ESP32-DevKitC-32D
4.7K
Shutter
Button
3V3
EN
VP(36)
VN(39)
34
35
32
33
25
26
27
14
12
GND
13
D2
D3
CMD
5V
GND
23
22
TX
RX
21
GND
19
18
5
17
16
4
0
2
15
D1
D0
CLK
OV7670_VSYNC
OV7670_SIOC
OV7670_SIOD
74HC165_SH/LD
OV7670_FIFO_WR
TFT_CS
74HC165_CLK
TFT_CLK
74HC165_QH
TFT_SDA
SD_MOSI
OV7670_FIFO_WRS
OV7670_FIFO_RRST
SD_MISO
SD_CLK
SD_CS
TFT_RESET
TFT_A0
OV7670_FIFO_RCK
(TopView)


OV7670 CMOS Sensor (CAMERA)
3.3V
3.3V
3.3V
4.7K
1K
1K
VCC
GND
SIOC
SIOD
VSYNC
HREF
D7
D6
D5
D4
D3
D2
D1
D0
RESET
PWDN
STROBE
FIFO_RCK
FIFO_WR
FIFO_OE
FIFO_WRST
FIFO_RRST
ES32_GPIO32
ES32_GPIO33
ES32_GPIO39
74HC165_H
74HC165_G
74HC165_F
74HC165_E
74HC165_D
74HC165_C
74HC165_B
74HC165_A
ES32_GPIO0
ES32_GPIO26
ES32_GPIO22
ES32_GPIO21
（TopView)



Convert from 8bit bus data to serial data(SPI) by 74HC165


3.3V
LED+
LED-
SD_CS
SD_MOSI
SD_MISO
SD_CLK
TFT_CS
TFT_SCL
TFT_SDA
TFT_A0
TFT_RESET
X
X
X
3.3V
GND
ESP32_GPIO5
ESP32_GPIO23
ESP32_GPIO19
ESP32_GPIO18
ESP32_GPIO27
ESP32_GPIO14
ESP32_GPIO13
ESP32_GPIO4
ESP32_GPIO16
3.3V
SD CardSocket
(back of board)
LCD Panel
（TopView)