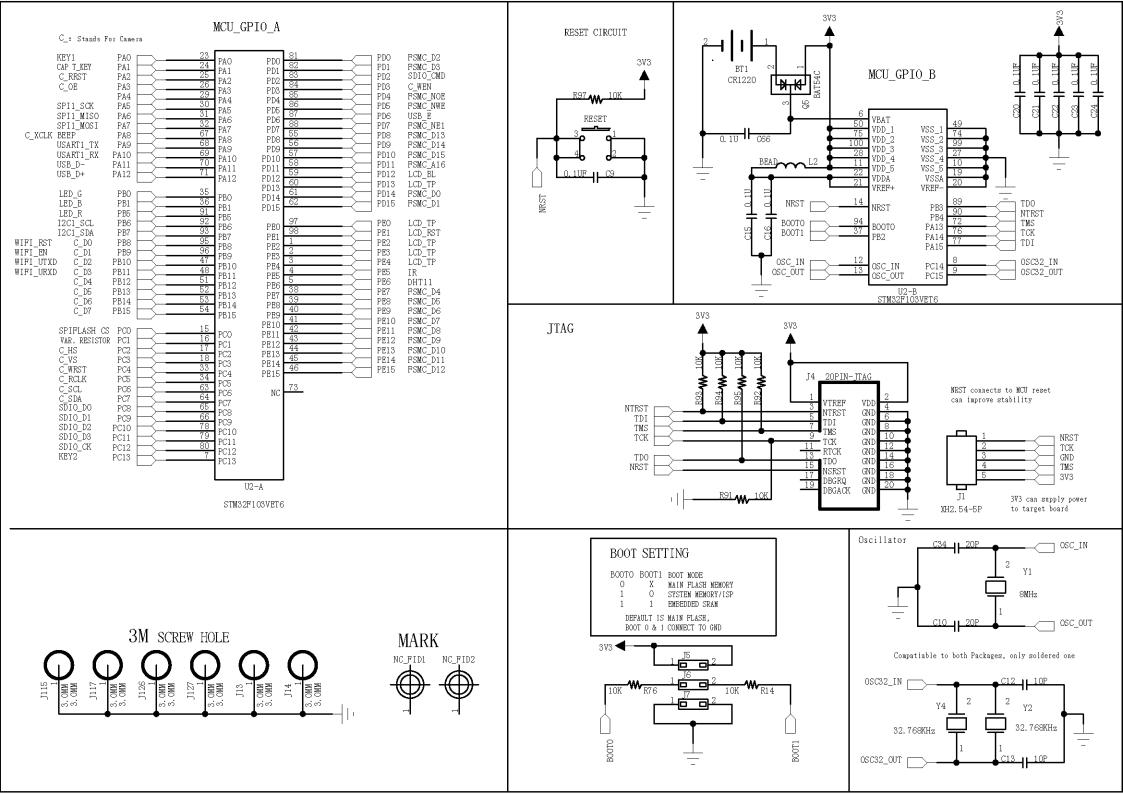
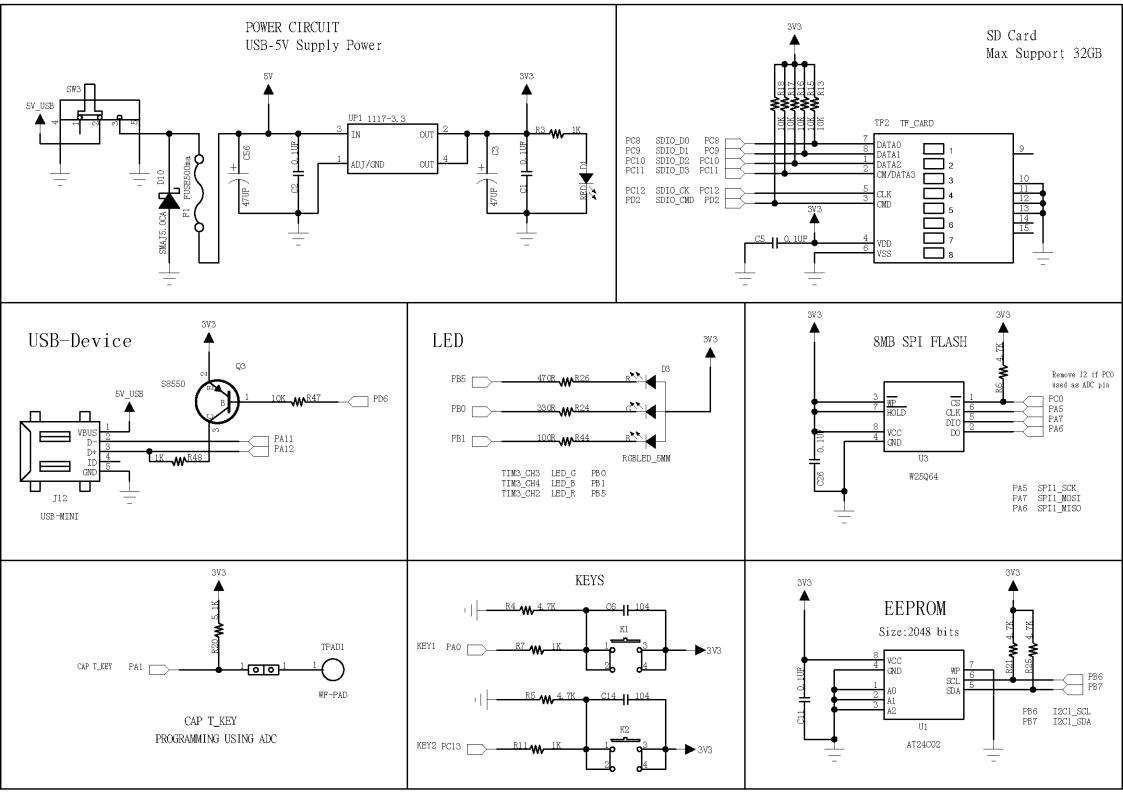
Port	Color Code
Α	
В	
С	
D	
E	

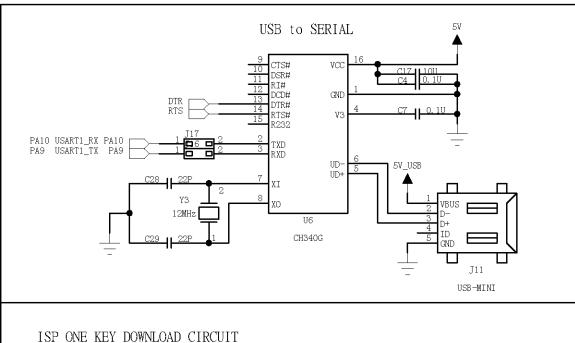
Function	Device	Port	Pin	Hardware Config
Button	KEY1	Α	0	External Pulled Low
Bullon	KEY2	С	13	External Pulled Low
		D	14	LCD data bus 0
		D	15	LCD data bus 1
		D	0	LCD data bus 2
		D	1	LCD data bus 3
		D	7	LCD data bus 4
		D	8	LCD data bus 5
		D	9	LCD data bus 6
		E	10	LCD data bus 7
		E	11	LCD data bus 8
		Е	12	LCD data bus 9
	I CD Dioplay	Е	13	LCD data bus 10
	LCD Display	Е	14	LCD data bus 11
		E	15	LCD data bus 12
TFT		D	8	LCD data bus 13
		D	9	LCD data bus 14
		D	10	LCD data bus 15
		E	1	LCD Reset
		D	12	LCD Backlight
	LCD Touch	D	7	LCD ~Select
		D	4	LCD ~Output Enable
		D	5	LCD ~Write Enable
		D	11	LCD CMD or Data
		E	0	LCD Touch CLK
		E	3	LCD Touch Dout
		E	2	LCD Touch Din
		D	13	LCD Touch Select
		E	4	LCD Touch IRQ

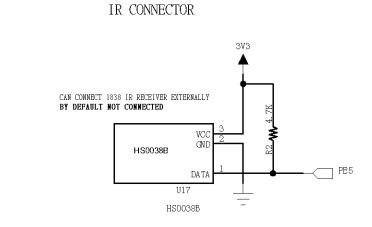
Device	Port	Pin	Hardware Config
LED R	В	5	active low
LED G	В	0	active low
LED B	В	1	active low
SD D0	С	8	SD Card Data Bus 0
SD D1		9	SD Card Data Bus 1
SD D2		10	SD Card Data Bus 2
SD D3		11	SD Card Data Bus 3
SD CLK		12	SD Card Clock
SD CMD	D	2	SD Card Command
USB-	Α	11	-
USB+	Α	12	-
USART1_TX	Α	9	-
USART1_RX	Α	10	-
Buzzer	Α	8	-
			Open Drain
I2C1 SDA	В	7	Open Drain
			Pull Up Resistor
			-
			-
SPI Flash MISO	Α	6	-
	LED R LED G LED B SD D0 SD D1 SD D2 SD D3 SD CLK SD CMD USB- USB+ USART1_TX USART1_RX	LED R LED G LED B B SD D0 C SD D1 C SD D2 C SD D3 C SD CLK C SD CMD D USB- USB+ A USART1_TX A Buzzer A I2C1 SCL I2C1 SDA B SPI Flash CS SPI Flash CS SPI Flash MOSI A	LED R LED G LED B B 0 LED B B 1 SD D0 C 8 SD D1 C 9 SD D2 C 10 SD D3 C 11 SD CLK C 12 SD CMD D 2 USB- USB+ A 12 USART1_TX A 10 Buzzer A 8 I2C1 SCL I2C1 SDA B 7 SPI Flash CS SPI Flash CS SPI Flash MOSI A 7

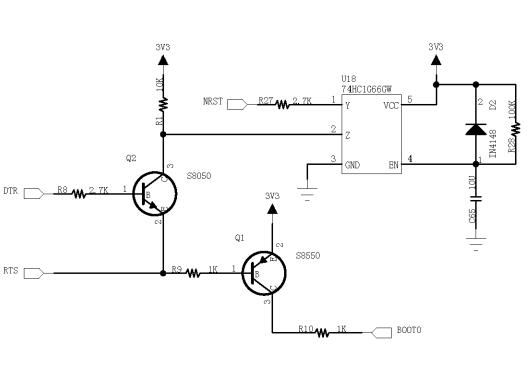
Function	Device	Port	Pin	Hardware Config
	Camera data bus 0	В	8	-
	Camera data bus 1	В	9	-
	Camera data bus 2	В	10	-
	Camera data bus 3	В	11	-
	Camera data bus 4	В	12	-
	Camera data bus 5	В	13	=
	Camera data bus 6	В	14	-
	Camera data bus 7	В	15	-
Camera	Camera control SCL	С	6	Open Drain
Camera	Camera control SDA	С	7	Open Drain
	Camera control HS	С	2	-
	Camera control VS	С	3	-
	Camera FIFO XCLK	Α	8	-
	Camera FIFO RCLK	С	5	-
	Camera FIFO RRST	Α	2	-
	Camera FIFO WRST	С	4	-
	Camera FIFO WEN	D	3	-
	Camera FIFO OEN	Α	3	=
IR	IR Data	Е	5	Pull Up Resistor
DHT11	DHT11 Data	Е	6	Pull Up Resistor

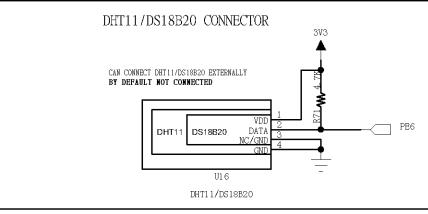


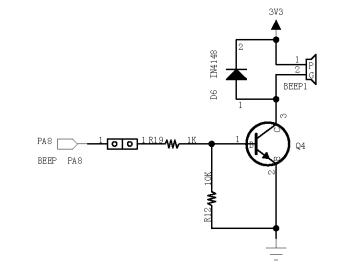








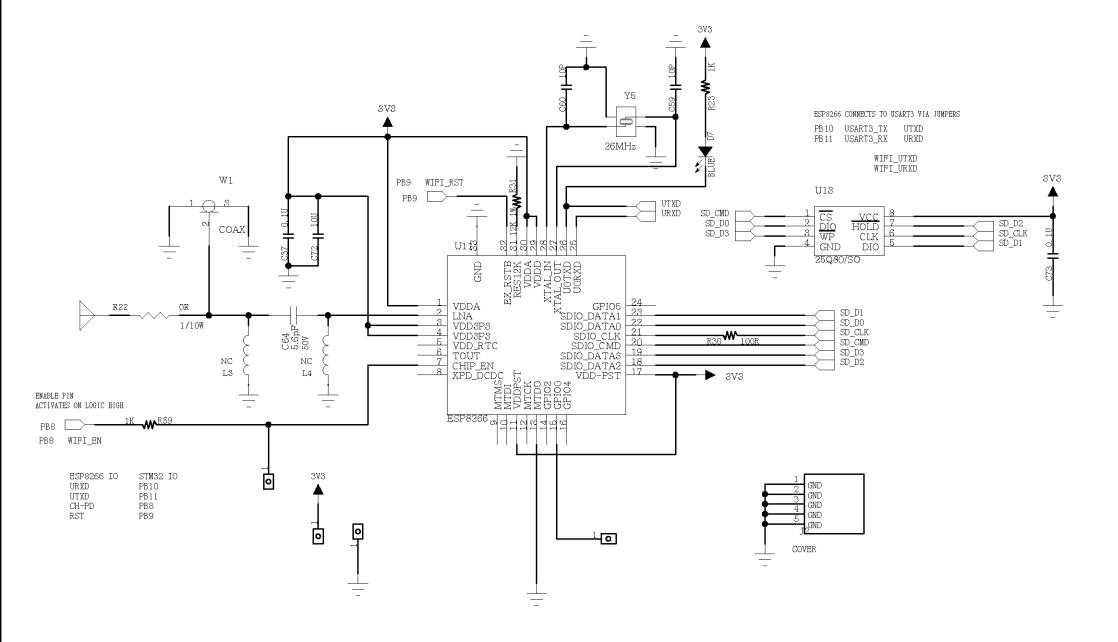


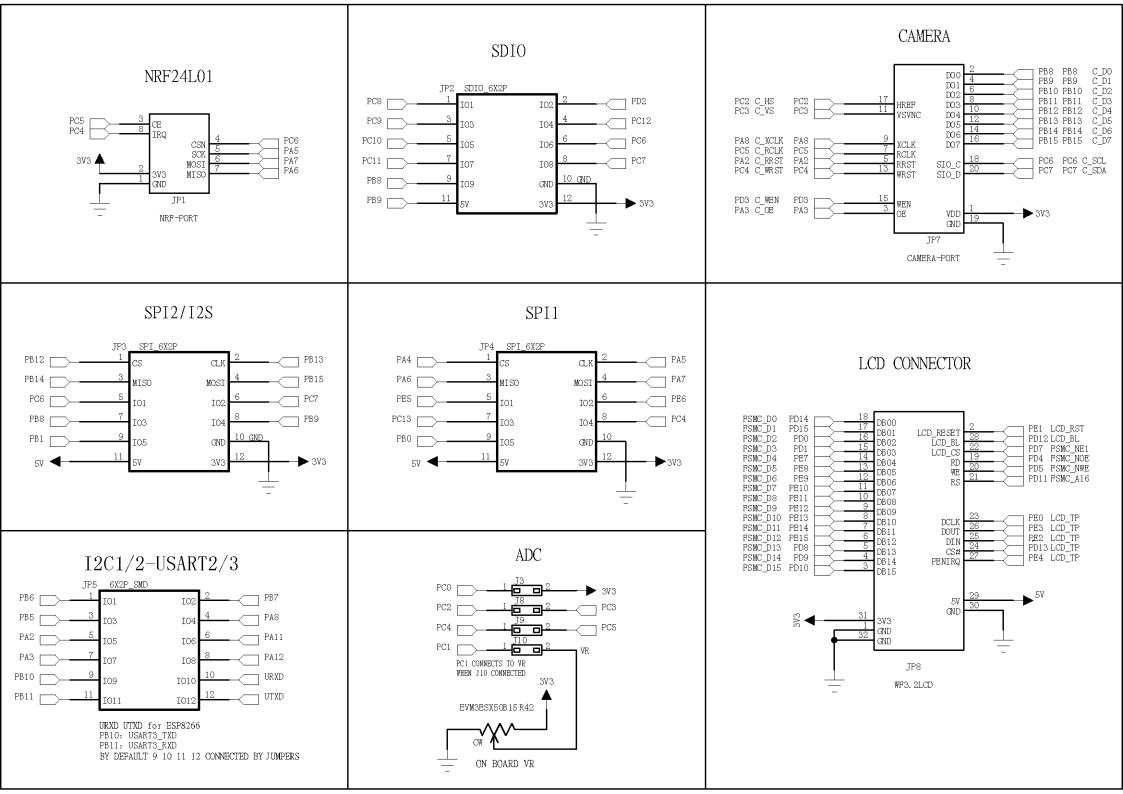


WIFI ESP8266

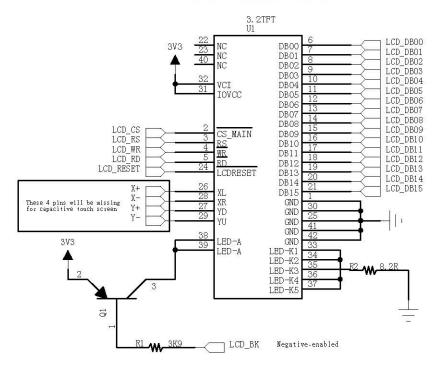
Note

- 1. ESP8266 is designed for transferring small amount of data (e.g. less than 200 bytes)
- 2. The board is tested at a distance of 10-meter

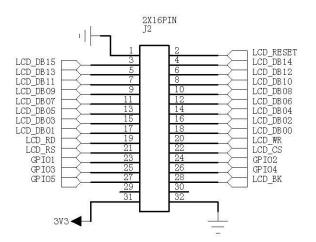




3.2 inch TFT

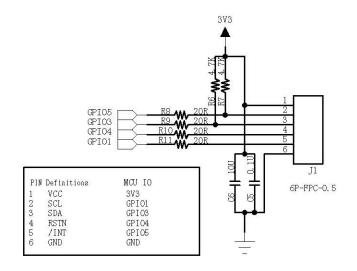


2X16PIN Connector



3.2 inch Capactive Touch Scren

No need to solder this part if resistive touch screen is used



Resistive Touch Screen Controller

No need to solder this part if capactive touch screen is used

