Port	Color Code
Α	
В	
С	
D	
E	

Last Update 04-Mar-21



Function	Device	Port	Pin	Hardware Config
Button	KEY1	Α	0	External Pulled Low
Dullon	KEY2	С	13	External Pulled Low
C_Key	T_CAP	Α	1	External Pulled Up
		D D	14 15	LCD data bus 0 LCD data bus 1
		D	0	LCD data bus 1
		D	1	LCD data bus 2
		E	7	LCD data bus 3
		Ē	8	LCD data bus 5
		Ē	9	LCD data bus 6
		Ē	10	LCD data bus 7
		Ē	11	LCD data bus 8
		Ē	12	LCD data bus 9
	1 OD D: 1	Ē	13	LCD data bus 10
	LCD Display	Ē	14	LCD data bus 11
		E	15	LCD data bus 12
TFT		D	8	LCD data bus 13
		D	9	LCD data bus 14
	LCD Touch	D	10	LCD data bus 15
		E	1	LCD Reset
		D	12	LCD Backlight
		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
		Е	4	LCD Touch IRQ

Function	Device	Port	Pin	Hardware Config
	LED R	В	5	active low
Color LED	LED G	В	0	active low
	LED B	В	1	active low
	SD D0	С	8	SD DB0 Pulled Up
	SD D1	С	9	SD DB1 Pulled Up
SDIO	SD D2	С	10	SD DB2 Pulled Up
3010	SD D3	С	11	SD DB3 Pulled Up
	SD CLK	С	12	SD Clock
	SD CMD	D	2	SD Cmd Pulled Up
				•
	USB-	Α	11	-
USB	USB+	Α	12	-
	USB EN	D	6	USB Device Enable
				-
LIADT	USART1 TX	Α	9	-
UART	USART1 RX	Α	10	-
	_			
VR	Variable Resistor	С	1	-
Buzzer	Buzzer	Α	8	-
UO (EEDDOM)	I2C1 SCL	В	6	External Pulled Up
IIC (EEPROM)	I2C1 SDA	В	7	External Pulled Up
				·
	SPI Flash CS	С	0	External Pulled Up
8MB Flash	SPI Flash CLK	Α	5	- '
	SPI Flash MOSI	A	7	_
	SPI Flash MISO	A	6	_
	OI II IUSII WIIOO	, n	J	*
	OSC32IN	С	14	32k Oscillator
OSC32	OSC32OUT	C	15	32k Oscillator
	00002001		.0	32. Coolidto

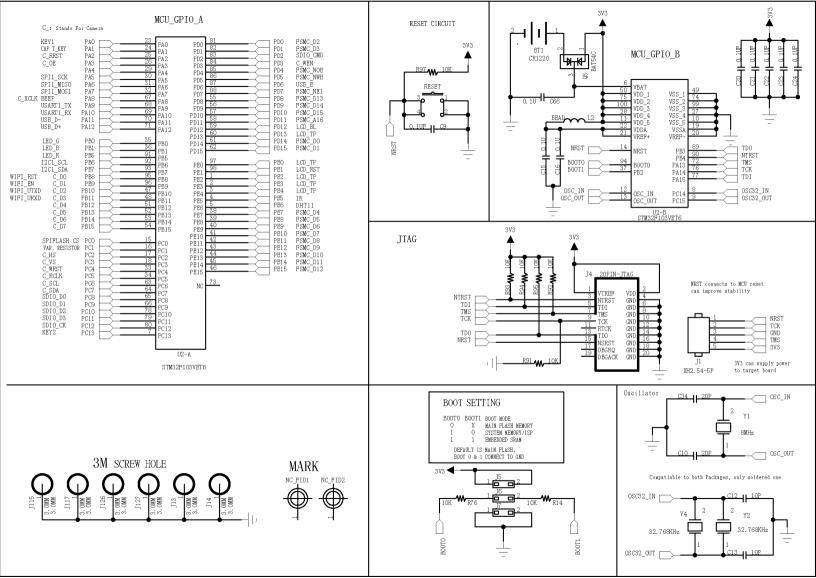
Function	Device	Port	Pin	Hardware Config
	Camera data bus 0	В	8	WIFI_EN
	Camera data bus 1	В	9	WIFI_RST
	Camera data bus 2	В	10	WIFI_URxD
	Camera data bus 3	В	11	WIFI_UTxD
	Camera data bus 4	В	12	-
	Camera data bus 5	В	13	-
	Camera data bus 6	В	14	-
	Camera data bus 7	В	15	-
Camera	Camera control SCL	С	6	Open Drain
Calliela	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	External Pulled Up
DHT11	DHT11 Data	Е	6	External Pulled Up
BOOT1	BOOT1	В	2	GND
NC	Not Connected	Α	4	
	TDO	В	3	
l	NTRST	В	4	
SWD to	TMS	A	13	To Debugger
JTAG	TCK	A	14	. o Dobuggoi
l	TDI	A	15	

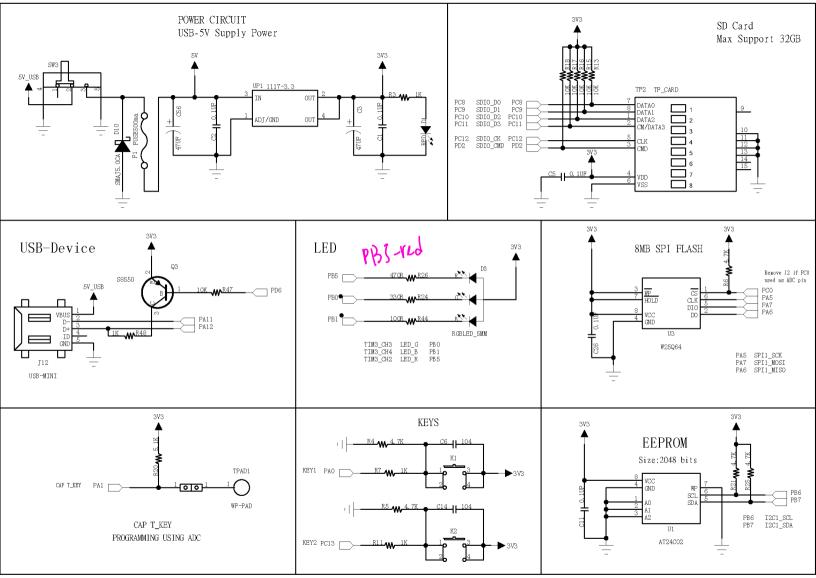
Below pins are connected by removable jumpers by default, the pin can be accessed by removing the corresponding jumper.

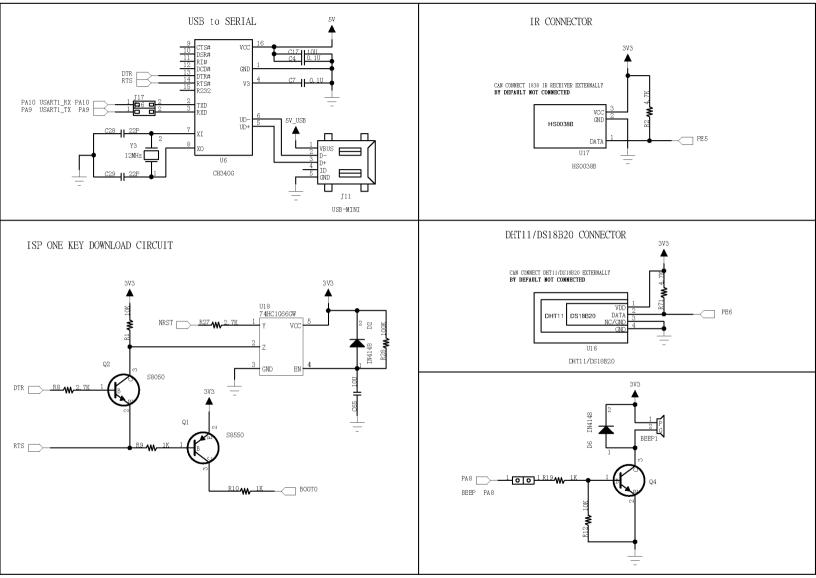
Function	Device	Port	Pin	Hardware Config
C_Key	T_CAP	Α	1	External Pulled Up
VR	Variable Resistor	С	1	-
Buzzer	Buzzer	Α	8	-
WIFI	WiFi RxD	В	10	WIFI_URxD
WIFI	WiFi TxD	В	11	WIFI_UTxD



It is IMPORTANT for you to KEEP J17 as shown on LEFT.
ANY CHANGE OF JUMPERS WILL RESULT FAIL TO DOWNLOAD
PLEASE ALTER IT UNLESS YOU KNOW WHAT YOU ARE DOING.



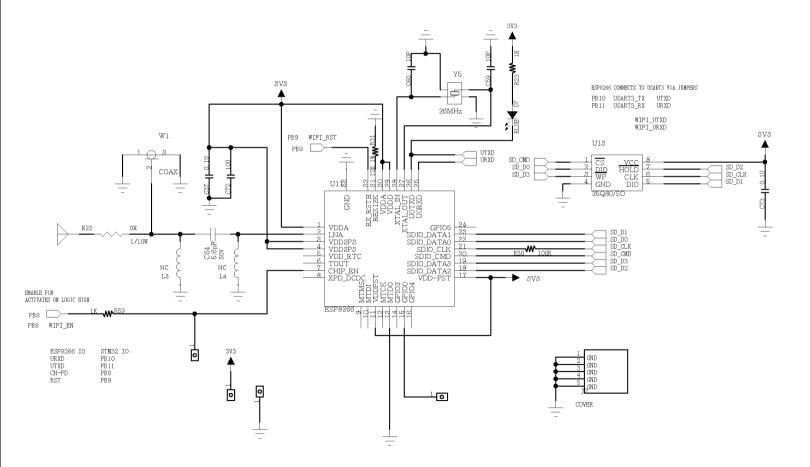


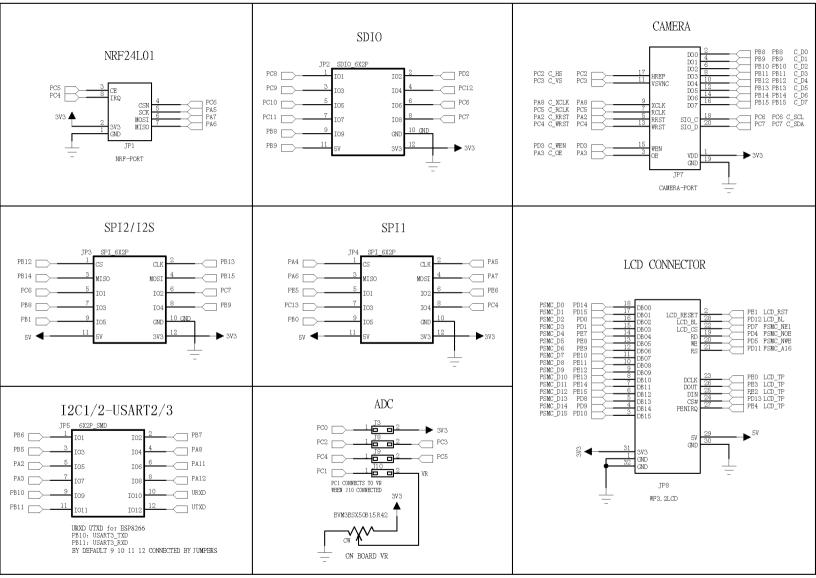


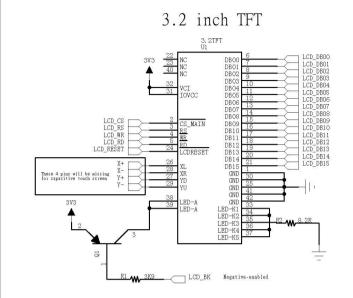
WIFI ESP8266

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





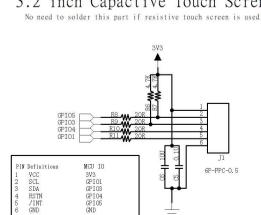


LCD RESET LCD_RESE I LCD_DB14 LCD_DB12 LCD_DB10 LCD_DB08 LCD_DB06 LCD_DB04 LCD_DB02 LCD_DB15 LCD_DB13 LCD_DB11 LCD_DB09 LCD_DB07 LCD_DB05 LCD_DB 03 LCD_DB01 LCD_RD LCD_RS LCD_DB00 LCD_WR LCD_CS GPI02 GPI01 GPT03 GPT04 GPI05 LCD BK

2X16PIN Connector

2X16PIN J2

3.2 inch Capactive Touch Scren



Resistive Touch Screen Controller No need to solder this part if capactive touch screen is used

