

Configuration.h

```
#define T-Dispaly //esp32 display module by lillygo
#define 103012 //hyrel smart head based on esp32-S3
```

```
//pick the hardware and pinassignments
//lillygo T-Dispaly
ifDef BoardType T-Display
INCLUDE PinOut_T_Display.h
INCLUDE Display_Parallel_ST7789.h
endif

//Hyrel smart head controller 103012 esp32-S3 based
ifDef BoardType_Hyrel_103012
INCLUDE PinOut_103012.h
INCLUDE Display_Parallel_ST7789.h
endif
```

```
Pinout_T_Display.h

#define PIN_POWER_ON GPIO_NUM_15
#define PIN_HEARTBEAT GPIO_NUM_38//GPIO_NUM_30 //LCD_BL

#define HEARTBEAT_SET gpio_set_level(PIN_HEARTBEAT, 1);
#define HEARTBEAT_CLR gpio_set_level(PIN_HEARTBEAT, 0);

#define PIN_LCD_RES GPIO_NUM_5
#define PIN_LCD_CS GPIO_NUM_6
#define PIN_LCD_DC GPIO_NUM_7
#define PIN_LCD_WR GPIO_NUM_8
#define PIN_LCD_RD GPIO_NUM_9

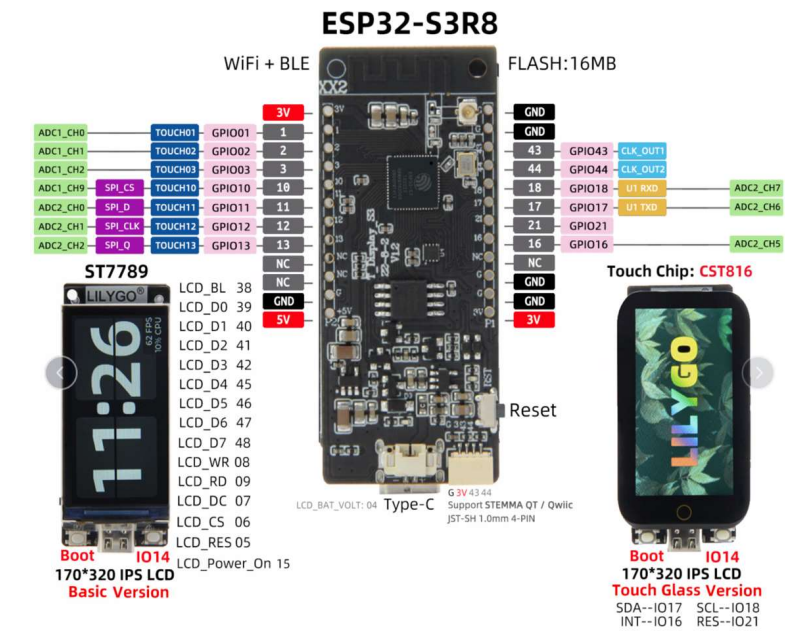
#define PIN_LCD_BL GPIO_NUM_38

#define PIN_LCD_D0 GPIO_NUM_39
#define PIN_LCD_D1 GPIO_NUM_40
#define PIN_LCD_D2 GPIO_NUM_41
#define PIN_LCD_D3 GPIO_NUM_42
#define PIN_LCD_D4 GPIO_NUM_45
#define PIN_LCD_D5 GPIO_NUM_46
#define PIN_LCD_D6 GPIO_NUM_47
#define PIN_LCD_D7 GPIO_NUM_48

#define PIN_TOUCH_INT 16
#define PIN_TOUCH_RES 21
```

```
Pinout_103012.h

#define LED1 45 //Heater Status
#define LED2 48 //Fan Status
#define LED3 47 //Motor Dir
#define LED4 21 //Motor Step
#define LED5 15
#define LED6 7
#define LED7 14 //Connection Status
#define LED8 13 // LCD RS
#define LED_BL 38
#define Power_ON 15
```



### LILYGO T-Display ESP32-S3

1.9 inch ST7789 170\*320 IPS LCD (Basic & Touch)

