LED

LED
R12 160
LED2 HLMP-4700
GND

Push_Buttons

3.3v
SW1 TS-1003-07526
R2 10k
C1 1u
PUSH_BUTTON_1
GND

3.3v
SW2 TS-1003-07526
R3 10k
C2 1u
PUSH_BUTTON_2
GND

3.3v
SW3 TS-1003-07526
R4 10k
C3 1u
PUSH_BUTTON_3
GND

3.3v
SW4 TS-1003-07526
R5 10k
C4 1u
PUSH_BUTTON_4
GND

NOTE: Debouncing t =R x C = 10k x 1uF = 1msec

DHT11_Sensor

3.3v
VDD
DATA
NC
GND
R1 10k
DHT_DATA
DHT11 U3
GND

TFT_SPI_Screen

U1 TFT 4.0 SPI
3.3v
C6 100nF
C8 10uF
GND
TFT 4.0 SPI

Pin	Signal
1	VCC
2	GND
3	TFT_CS
4	TFT_RESET
5	TFT_DC/RS
6	TFT_SDI
7	TFT_SCK
8	TFT_LED
9	TFT_SDO
10	TOUCH_SCK
11	TOUCH_CS
12	TOUCH_DIN
13	TOUCH_DO
14	TOUCH_IRQ

TFT_CSN
RST
TFT_DC/RS
VSPI_MOSI
VSPI_CLK
3.3v
VSPI_MISO
VSPI_CLK
TOUCH_CSN
VSPI_MISO
VSPI_MOSI

SD_CS 15
SD_MOSI 16
SD_MISO 17
SD_SCK 18

SD_CSN
VSPI_MOSI
VSPI_MISO
VSPI_CLK

Passive Buzzer Driver

3.3v
BUZZER1 2.3kHz
D2 1N4148_C258182
R11 470
Q1 2SC1815_C328618
Buzzer
GND

Expansion GPIO Connecter

GPIO_12
UART_Tx
GPIO_27
GPIO_14
R6 0
R7 0
R8 0
R9 0
UART_Rx
GPIO_13
H1 HDR-F-2.54_2x4
SCL
SDA
3.3v
GND

NOTE: H1.5 & H1.7 either connected as GPIO or UART 2 wires

ESP32 Devkit v1.0

U2 ESP32 DEVKIT V1 DOIT

Left pins:
EN
ADC/D36*
ADC/D39*
DHT_DATA — ADC/D34*
PUSH_BUTTON_3 — ADC/D35*
PUSH_BUTTON_1 — ADC/D32
PUSH_BUTTON_2 — ADC/D33
PUSH_BUTTON_4 — ADC/DAC0/D25
SD_CSN — ADC/DAC1/D26
GPIO_27 — ADC/D27
GPIO_14 — ADC/D14
GPIO_12 — ADC/D12
GPIO_13 — ADC/D13
GND
Vin — VIN

Right pins:
D23 — VSPI_MOSI
D22 — SCL
UA0TX/D1 — Buzzer
UA0RX/D3 — LED
D21 — SDA
D19 — VSPI_MISO
D18 — VSPI_CLK
D5 — TOUCH_CSN
UA2TX/D17 — UART_Tx
UA2RX/D16 — UART_Rx
ADC/D4 — RST
LED0/D2 — TFT_DC/RS
ADC/D15 — TFT_CSN
3V3 — 3.3v

GND
GND

External Power Source Connecter

Vin
C5 100nF
C7 10uF
GND
D1 SS14_C466498
H3 HDR-F-2.54_1x2
Vin
R10 1k
LED1 HLMP-4700
GND

NOTE: Input voltage 5v-9v