



```
U1
ESP32-S3-MINI-1
                                                                                                                                                                                                                                                                                                                                GPI020/U1CTS/ADC2_CH9/CLK_OUT1/USB_D+ 24
GPI019/U1RTS/ADC2_CH8/CLK_OUT2/USB_D-
   4 GPI00/B00T
EN
                                                                                                                                                                                                                                                                                                                                                                                                                       UOTXD/GPI043/CLK_0UT1 39

UORXD/GPI044/CLK_0UT2 40

GPI021 25

GPI026 26
    5 GPI01/TOUCH1/ADC1_CH0
   6 GPI02/TOUCH2/ADC1_CH1
7 GPI03/TOUCH3/ADC1_CH2
8 GPI04/TOUCH4/ADC1_CH3
                                                                                                                                                                                                                                                                                                                                                                 GPI026 GPI026 GPI045 44 GPI046 44 GPI048/SPICLK_N/SUBSPICLK_N_DIFF 30 GPI047/SPICLK_P/SUBSPICLK_P_DIFF 27 SPII04/GPI033/FSPIH0/SUBSPID 32 SPII05/GPI034/FSPICSO/SUBSPICSO 29 SPII06/GPI036/FSPICK/SUBSPICSO 29 SPII06/GPI036/FSPICK/SUBSPIC 32 SPI06/GPI036/FSPICK/SUBSPIC 32 SPI06/GPI038/FSPIW/SUBSPIW 34 GPI038/FSPIWP/SUBSPIW 34 GPI038/FSPIWP/SUBSPIWP 34 GPI038/FSPIWP/SUBSPIWP 35 GPI038/FSPIWP/SUBSPIWP 35 GPI038/FSPIWP/SUBSPIWP 35 GPI038/FSPIWP/SUBSPIWP 36 GPI038/FSPIWP 36 GPI038/FSPIWP 36 GPI038/FSPIWP 36 GPIDAR 36 GPI038/FSPIWP 36 GPIDAR 
# GPI04/TOUCH4/ADC1_CH3
9 GPI05/TOUCH5/ADC1_CH4
10 GPI06/TOUCH5/ADC1_CH5
11 GPI07/TOUCH7/ADC1_CH6
12 GPI08/TOUCH8/ADC1_CH7/SUBSPICS1
13 GPI09/TOUCH9/ADC1_CH8/FSPIHD/SUBSPIHD
14 GPI010/TOUCH10/ADC1_CH9/FSPICS0/FSPII04/SUBSPICS0
15 GPI011/TOUCH11/ADC2_CH0/FSPID/FSPII05/SUBSPICS0
16 CPI03/TOUCH3/ADC3_CH4/FSPID/FSPII05/SUBSPICEN
 GPI011/TOUCH11/ADC2_CHU/FSPIU/FSPIU/FSPIUD/SUBSPIU

16 GPI012/TOUCH12/ADC2_CH1/FSPICLK/FSPIIO/SUBSPICK

17 GPI013/TOUCH13/ADC2_CH2/FSPIQ/FSPIIO7/SUBSPIQ

18 GPI014/TOUCH14/ADC2_CH3/FSPIWP/FSPIDQS/SUBSPIWP

19 GPI015/UORTS/ADC2_CH4/XTAL_32K_P

20 GPI016/UOCTS/ADC2_CH5/XTAL_32K_NH5

21 GPI017/UHTVP/ADC2_CH6
                                                                                                                                                                                                                                                                                                                                                                       MTCK/GPI039/CLK_0UT3/SUBSPICS1 35
MTD0/GPI040/CLK_0UT2 37
MTDI/GPI041/CLK_0UT1 37
MTMS/GPI042 38
  21 GPI017/U1TXD/ADC2_CH6
22 GPI018/U1RXD/ADC2_CH7/CLK_OUT3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GND 1
GND 42
GND 43
                                                                                                                                                                                                ESP32-S3-MINI-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GND 46
                                                                                                                                                                                                                                  ESP32-S3-WROOM-1
                                                                                                                                                                                                                                                                                                                                 GPI020/U1CTS/ADC2_CH9/CLK_0UT1/USB_D+
GPI019/U1RTS/ADC2_CH8/CLK_0UT2/USB_D-
        27
3 GPI00/B00T
EN
  39 GPI01/TOUCH1/ADC1_CH0
38 GPI02/TOUCH2/ADC1_CH1
15 GPI03/TOUCH3/ADC1_CH2
4 GPI03/TOUCH3/ADC1_CH2
5 GPI03/TOUCH4/ADC1_CH3
5 GPI05/TOUCH5/ADC1_CH3
6 GPI06/TOUCH5/ADC1_CH4
6 GPI06/TOUCH6/ADC1_CH5
7 GPI07/TOUCH7/ADC1_CH6
12 GPI08/TOUCH8/ADC1_CH6
13 GPI01/TOUCH10/ADC1_CH8/FSPID/SUBSPIHD
18 GPI010/TOUCH1/ADC1_CH9/FSPID/SPII014/SUBSPICS0
19 GPI011/TOUCH11/ADC2_CH1/FSPICK9/FSPII05/SUBSPID
20 GPI012/TOUCH13/ADC2_CH1/FSPICK/FSPII06/SUBSPICK
21 GPI013/TOUCH13/ADC2_CH2/FSPIQ/FSPII07/SUBSPIQ
22 GPI014/TOUCH14/ADC2_CH3/FSPIWP/FSPIDQS/SUBSPIWP
3 GPI015/UORTS/ADC2_CH4/XTAL_32K_P
4 GPI015/UORTS/ADC2_CH5/XTAL_32K_NH5
10 GPI017/U1TXD/ADC2_CH6
GPI018/U1RXD/ADC2_CH7/CLK_OUT3
        39 GPI01/TOUCH1/ADC1_CH0
                                                                                                                                                                                                                                                                                                                                                                                                                           U0TXD/GPI043/CLK_OUT1 37
U0RXD/GPI044/CLK_OUT2 36
                                                                                                                                                                                                                                                                                                                                                                       GPI021 23
GPI045 26
GPI046 16
GPI048/SPICLK_N/SUBSPICLK_N_DIFF
GPI047/SPICLK_P/SUBSPICLK_P_DIFF
                                                                                                                                                                                                                                                                                                                                                                            SPII06/GPI035/FSPID/SUBSPID 28
SPII07/GPI036/FSPICLK/SUBSPICLK
SPIDQS/GPI037/FSPIQ/SUBSPIQ 30
GPI038/FSPIWP/SUBSPIWP 31
                                                                                                                                                                                                                                                                                                                                                                           MTCK/GPI039/CLK_OUT3/SUBSPICS1
MTD0/GPI040/CLK_OUT2
MTDI/GPI041/CLK_OUT1
MTMS/GPI042
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GND 40
GND 41
         2 3/3
                                                                                                                                                                                      ESP32-S3-WR00M-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sheet: /MCU+WIFI+BT/
File: MCU.kicad_sch
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Title:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Size: A3 Date:
KiCad E.D.A. kicad (6.0.7
```





