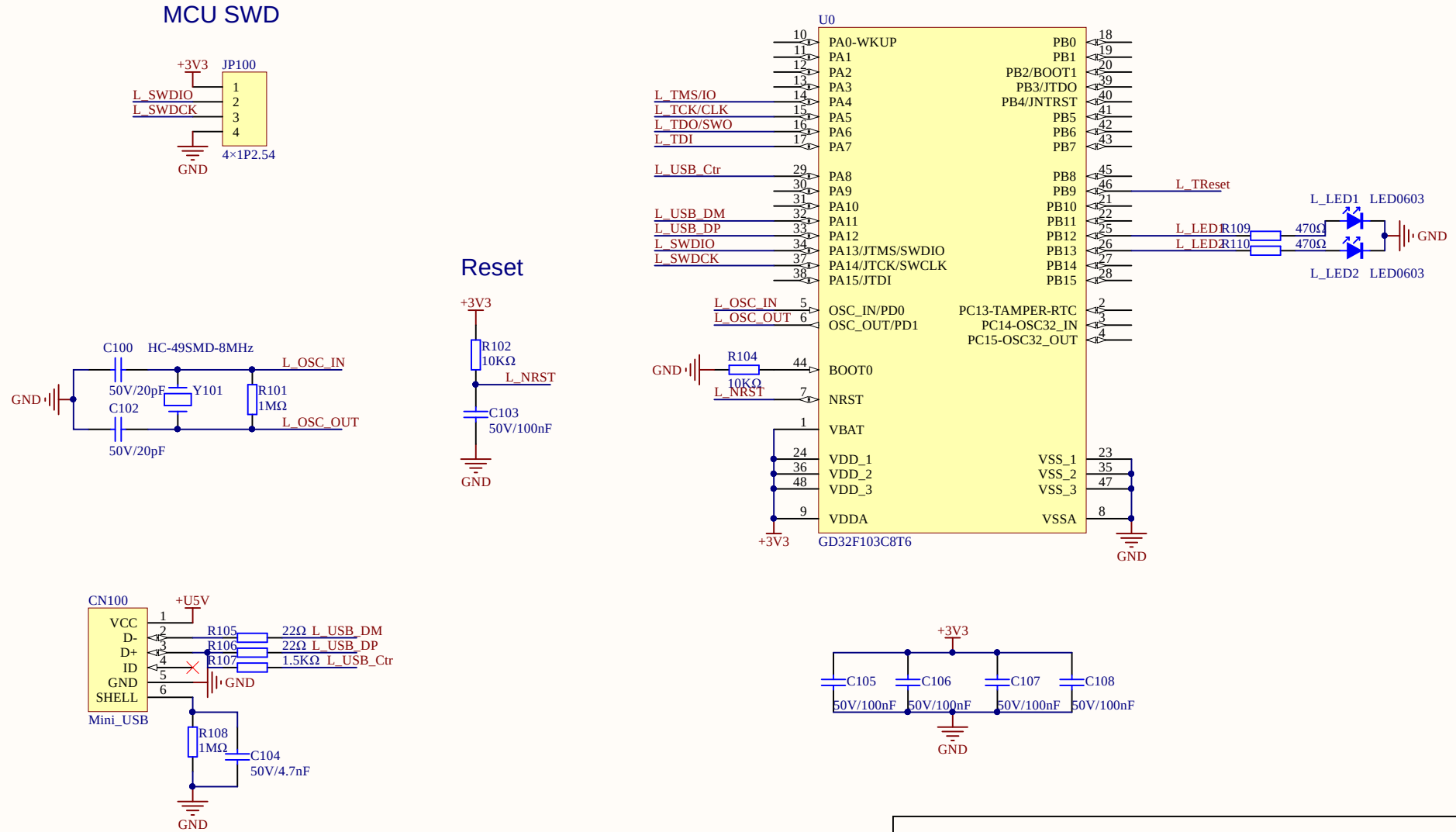
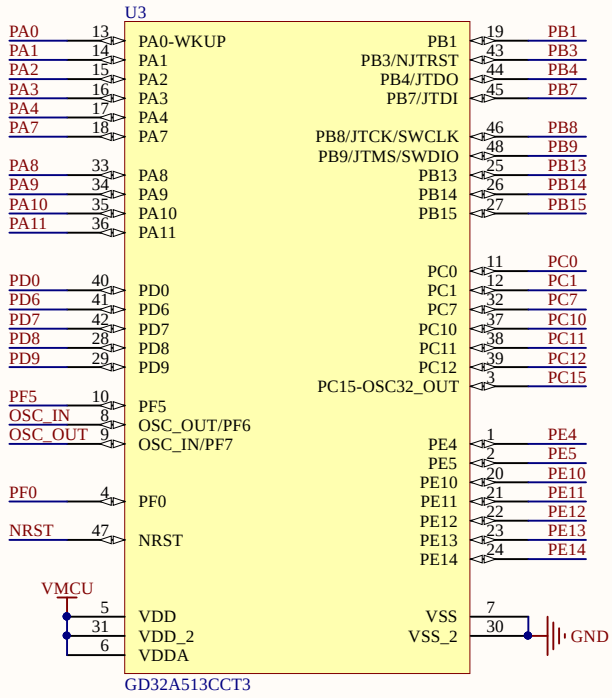
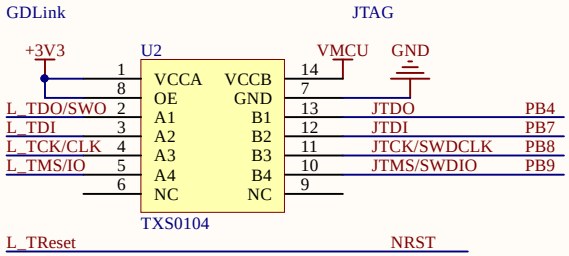
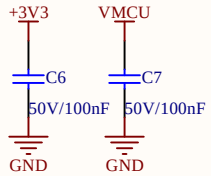
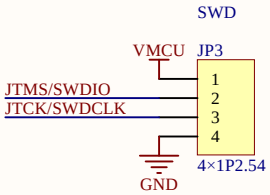


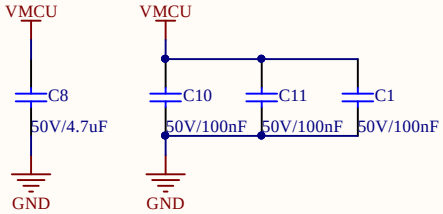
Company Name: GigaDevice		
File Name: GDLink		
Revision: 1.0	Data: 2023-9	Author: yihao.wu

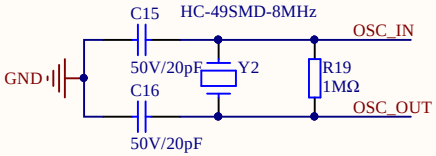


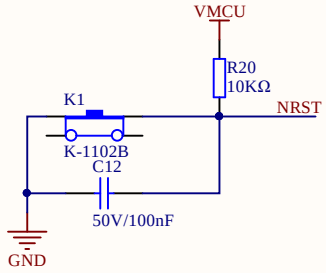




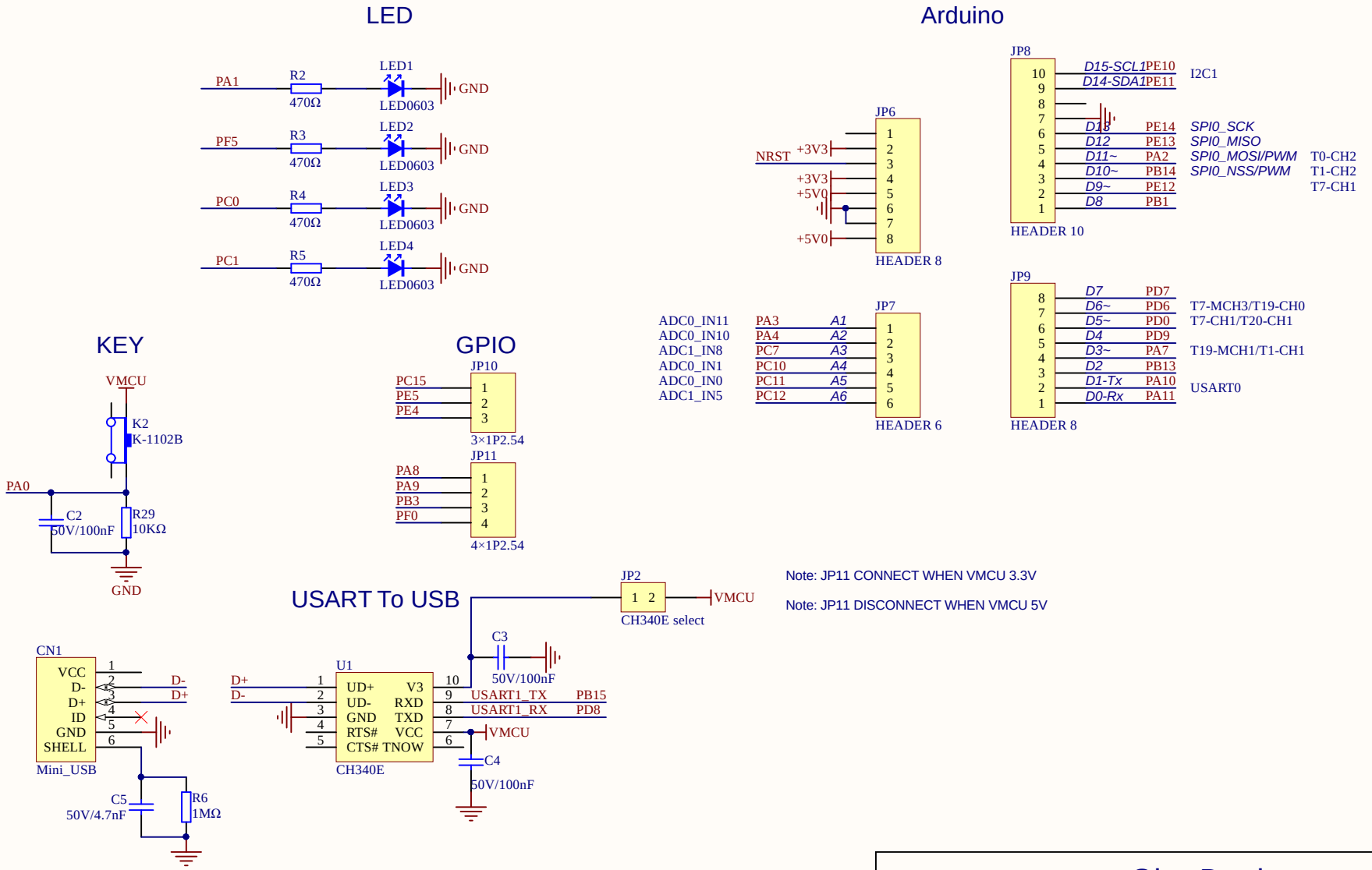


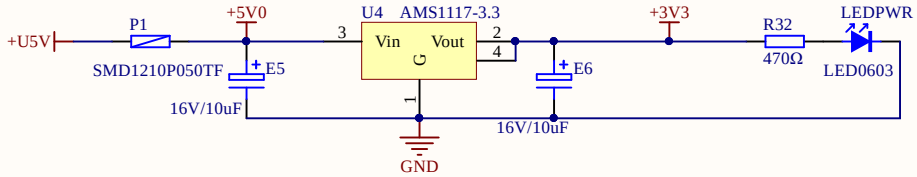


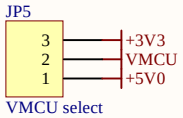




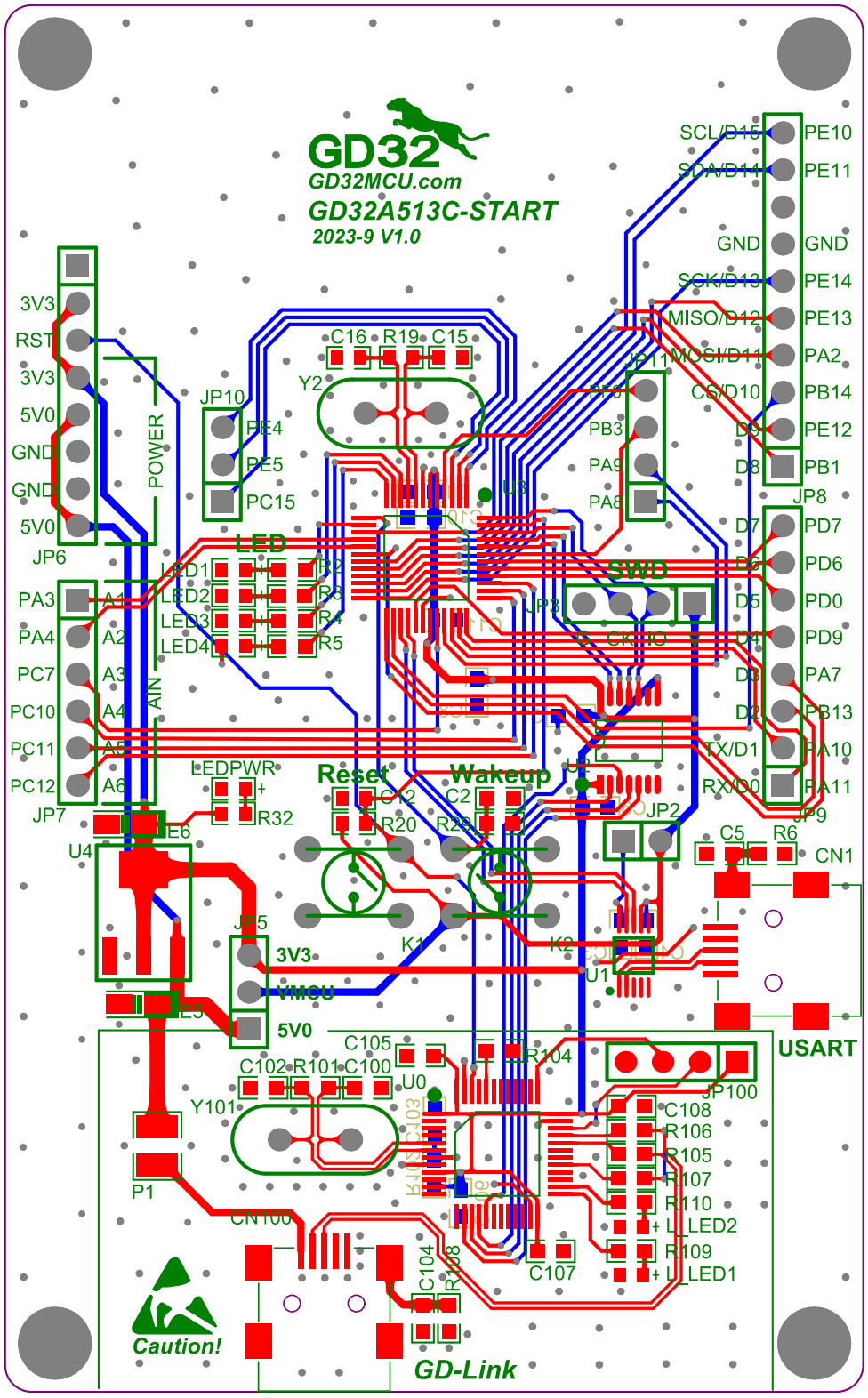
Company Name: GigaDevice		
File Name: MCU		
Revision: 1.0	Data: 2023-9	Author: yihao.wu


LED
PA1
R2
470Ω
LED1
LED0603
GND
PF5
R3
470Ω
LED2
LED0603
GND
PC0
R4
470Ω
LED3
LED0603
GND
PC1
R5
470Ω
LED4
LED0603
GND
Arduino
JP8
10 9 8 7 6 5 4 3 2 1
D15-SCL1 PE10
D14-SDA1 PE11
I2C1
D13 PE14
SPI0_SCK
D12 PE13
SPI0_MISO
D11~ PA2
SPI0_MOSI/PWM
T0-CH2
D10~ PB14
SPI0_NSS/PWM
T1-CH2
D9~ PE12
T7-CH1
D8 PB1
HEADER 10
JP6
NRST
+3V3
+3V3
+5V0
+5V0
1 2 3 4 5 6 7 8
HEADER 8
JP9
8 7 6 5 4 3 2 1
D7 PD7
D6~ PD6
T7-MCH3/T19-CH0
D5~ PD0
T7-CH1/T20-CH1
D4 PD9
D3~ PA7
T19-MCH1/T1-CH1
D2 PB13
D1-Tx PA10
USART0
D0-Rx PA11
HEADER 8
JP7
ADC0_IN11 PA3 A1
ADC0_IN10 PA4 A2
ADC1_IN8 PC7 A3
ADC0_IN1 PC10 A4
ADC0_IN0 PC11 A5
ADC1_IN5 PC12 A6
1 2 3 4 5 6
HEADER 6
KEY
VMCU
K2
K-1102B
PA0
C2
50V/100nF
R29
10KΩ
GND
GPIO
JP10
PC15
PE5
PE4
1 2 3
3×1P2.54
JP11
PA8
PA9
PB3
PF0
1 2 3 4
4×1P2.54
USART To USB
JP2
1 2
VMCU
CH340E select
C3
50V/100nF
CN1
VCC 1
D- 2
D+ 3
ID 4
GND 5
SHELL 6
D-
D+
Mini_USB
C5
50V/4.7nF
R6
1MΩ
U1
D+ 1
D- 2
3
4
5
UD+ V3 10
UD- RXD 9
GND TXD 8
RTS# VCC 7
CTS# TNOW 6
USART1_TX PB15
USART1_RX PD8
VMCU
CH340E
C4
50V/100nF
Note: JP11 CONNECT WHEN VMCU 3.3V
Note: JP11 DISCONNECT WHEN VMCU 5V
Company Name: GigaDevice
File Name: Peripherals
Revision: 1.0
Data: 2023-9
Author: yihao.wu





Company Name: GigaDevice		
File Name: Power		
Revision: 1.0	Data: 2023-9	Author: yihao.wu


GD32
GD32MCU.com
GD32A513C-START
2023-9 V1.0
3V3
RST
3V3
5V0
GND
GND
5V0
JP6
POWER
PA3
PA4
PC7
PC10
PC11
PC12
JP7
AIN
A1
A2
A3
A4
A5
A6
E6
E5
U4
LED
LED1
LED2
LED3
LED4
R2
R3
R4
R5
JP10
PE4
PE5
PC15
Y2
C16
R19
C15
U3
JP3
SWD
CK
IO
LEDPWR
R32
Reset
Wakeup
C12
C2
R20
R29
JP2
JP5
3V3
VMCU
5V0
K1
K2
U1
C5
R6
CN1
USART
JP100
C105
R104
C102
R101
C100
U0
Y101
P1
CN100
C108
R106
R105
R107
R110
LED2
R109
LED1
C107
C104
R108
Caution!
GD-Link
SCL/D15
SDA/D14
GND
SCK/D13
MISO/D12
MOSI/D11
CS/D10
D9
D8
JP11
PE10
PE11
GND
PE14
PE13
PA2
PB14
PE12
PB1
JP8
PD7
PD6
PD0
PD9
PA7
PB13
PA10
PA11
JP9
TX/D1
RX/D0
D7
D6
D5
D4
D3
D2
PB3
PA9
PA8