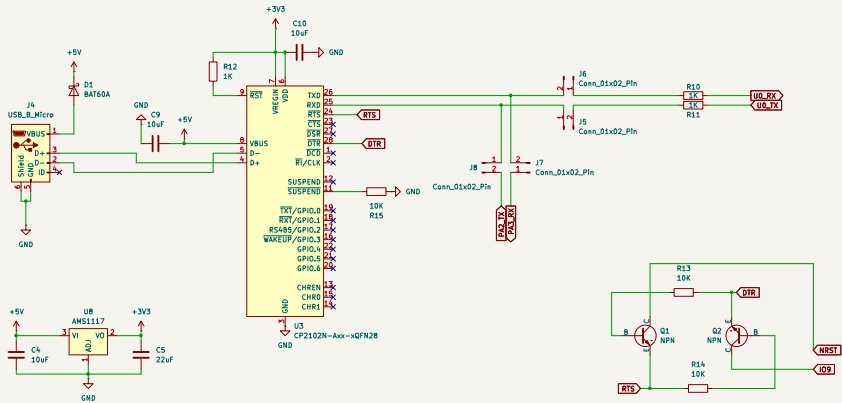


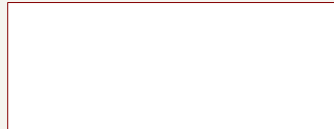
HEADER PINS



CP2102 USB to UART Converter



LCD



File: lcd.kicad_sch

SD_SLOT



File: sd_slot.kicad_sch

WIFI



File: wifi.kicad_sch

CAN



File: can.kicad_sch

Sensors



File: Sensors.kicad_sch

Fastbit Embedded

Sheet: /

File: F407_LCD.kicad_sch

Title: STM32F407_SHIELD

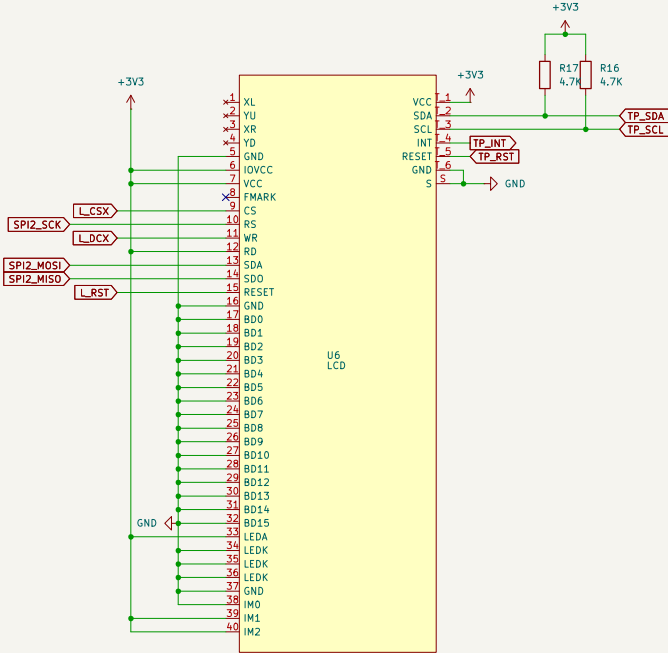
Size: A3 | Date: 05-05-2025

KiCad E.D.A. 9.0.0

Rev: v1.0.0

Id: 1/6

2.4" TFT DISPLAY



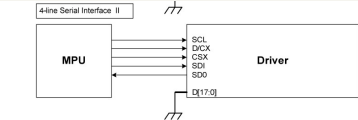
Interface Logic Signals			
Pin Name	I/O	Type	Descriptions
IM[3:0]	I	(VDDI/VSS)	Select the MCU interface mode
			DB Pin in use
			Register/Content
			GRAM
			IM3 IM2 IM1 IM0 MCU-Interface Mode
			80 MCU 8-bit bus interface I D[7:0] D[7:0]
			80 MCU 16-bit bus interface I D[7:0] D[15:0]
			80 MCU 9-bit bus interface I D[7:0] D[8:0]
			80 MCU 18-bit bus interface I D[7:0] D[17:0]
			3-wire 9-bit data serial interface I SDA: In/OUT
			4-wire 8-bit data serial interface I SDA: In/OUT
			80 MCU 16-bit bus interface II D[8:1] D[17:10]
			80 MCU 8-bit bus interface II D[17:10] D[17:10]
			80 MCU 18-bit bus interface II D[8:1] D[17:0]
			80 MCU 9-bit bus interface II D[17:10] D[17:9]
			3-wire 9-bit data serial interface II SDI: In SDO: Out
			4-wire 8-bit data serial interface II SDI: In SDO: Out
			MPU Parallel interface bus and serial interface select
			If use RGB interface must select serial interface.
			* : Fix this pin at VDDI or VSS.

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接口模式选择 电阻切换

IM0	IM1	IM2
R1	R3	R5
R2	R4	R6
PIN	R7-PIN38	R8-PIN39 R9-PIN40

IM0	IM1	IM2	Data pin	MPU Interface Mode
0	0	0	DB[0:15]	80-16bit parallel
1	0	0	DB[8:15]	80-8bit parallel
1	0	1	SDA-IN SDO-OUT	3-line 9bit serial
0	1	1	SDA-IN SDO-OUT	4-line 8bit serial



In 4-line serial interface, different display data format is available for two color depths supported by the LCM listed below.

Fastbit Embedded

Sheet: /LCD/
File: lcd.kicad_sch

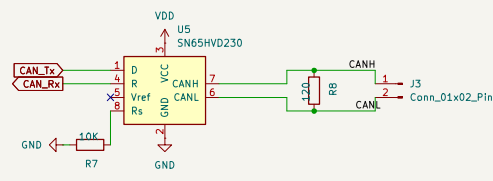
Title: STM32F4047_SHIELD

Size: A4
KiCad E.D.A. 9.0.0

Date: 05-05-2025

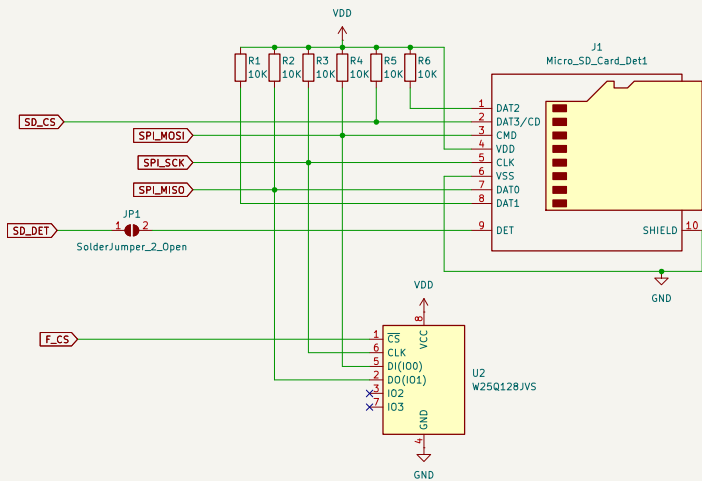
Rev: v1.0.0
Id: 2/6

CAN MODULE

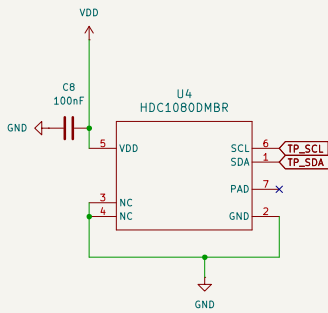


Fastbit Embedded		
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File: can.kicad_sch		
Title: STM32F4047_SHIELD		
Size: A4	Date: 05-05-2025	Rev: v1.0.0
KiCad E.D.A. 9.0.0	Id: 3/6	

SD CARD SLOT AND NOR FLASH

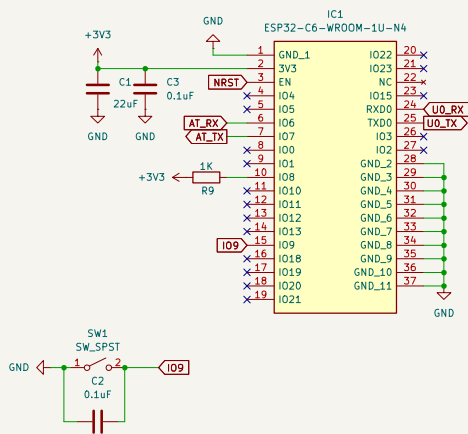


TEMPERATURE AND HUMIDITY SENSOR



Fastbit Embedded		
Sheet: /Sensors/		
File: Sensors.kicad_sch		
Title: STM32F4047_SHIELD		
Size: A4	Date: 05-05-2025	Rev: v1.0.0
KiCad E.D.A. 9.0.0		Id: 6/6

ESP32 C6



Function of Connection	ESP32C6-4MB Board or Module Pins	Other Device Pins
Download/Log output ¹	UART0 <ul style="list-style-type: none">GPIO17 (RX)GPIO16 (TX)	PC <ul style="list-style-type: none">TXRX
AT command/response ²	UART1 <ul style="list-style-type: none">GPIO6 (RX)GPIO7 (TX)GPIO5 (CTS)GPIO4 (RTS)	USB to serial converter <ul style="list-style-type: none">TXRXRTSCTS

Fastbit Embedded		
Sheet: /WiFi/		
File: wifi.kicad_sch		
Title: STM32F4047_SHIELD		
Size: A4	Date: 05-05-2025	Rev: v1.0.0
KiCad E.D.A. 9.0.0		Id: 6/6