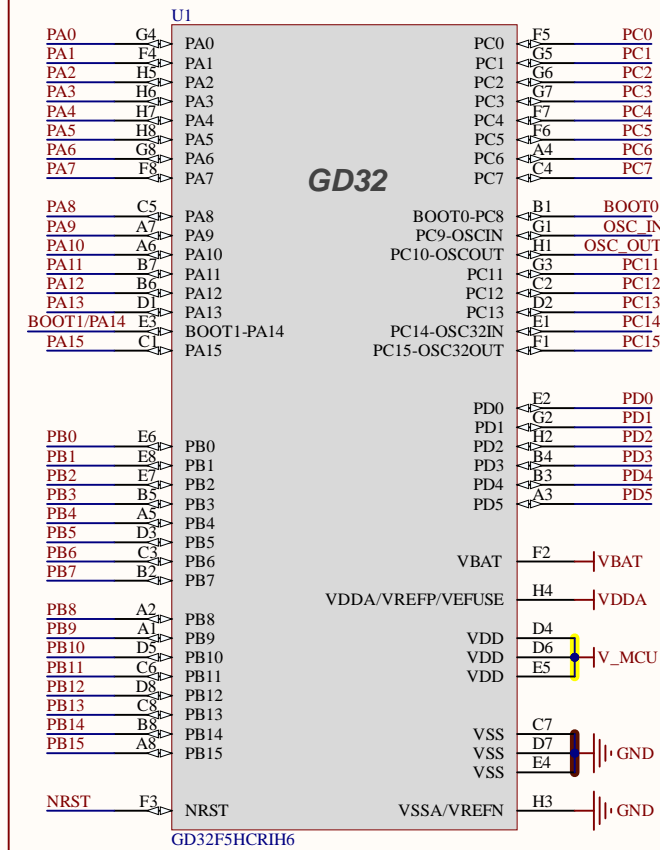
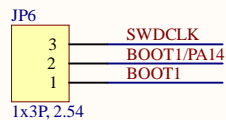


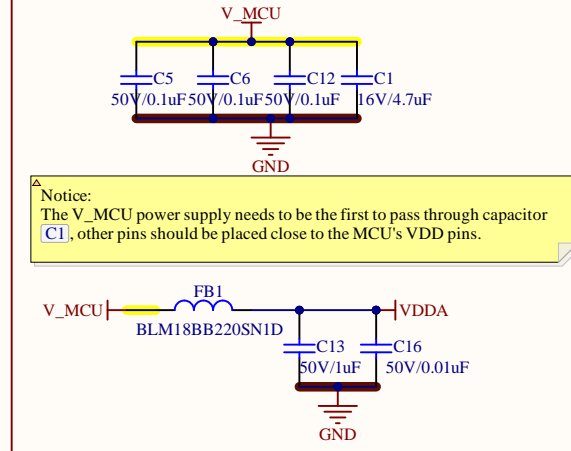
MCU



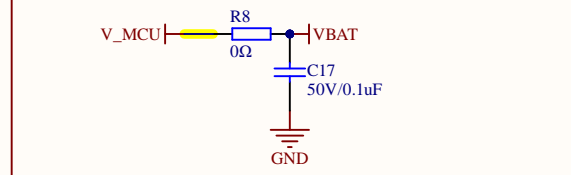
GPIO Function Select



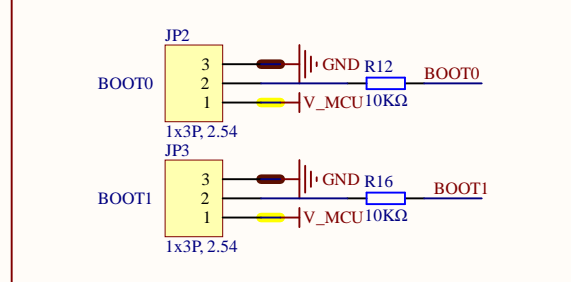
Power Filtering



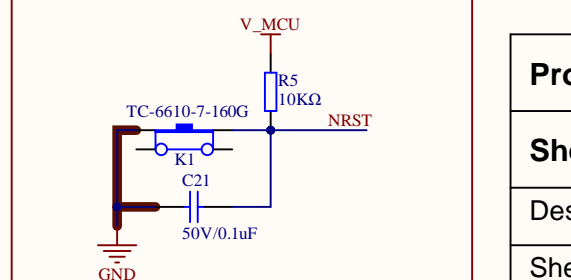
VBAT



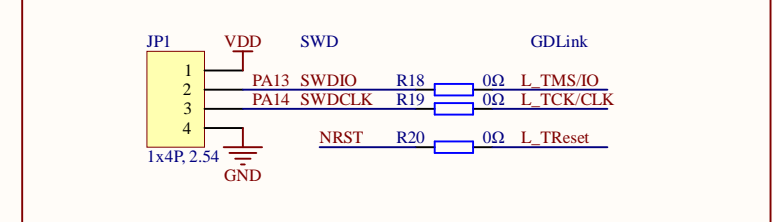
BOOT



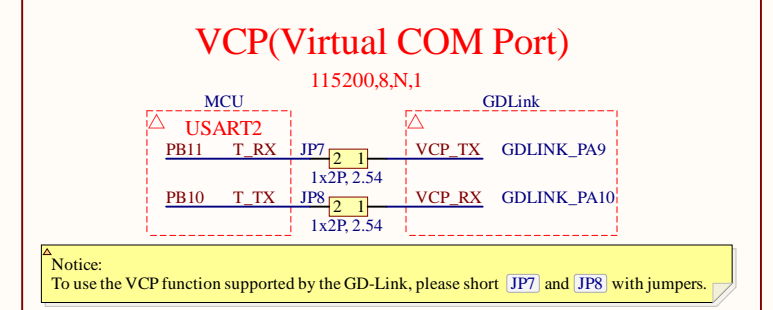
NRST



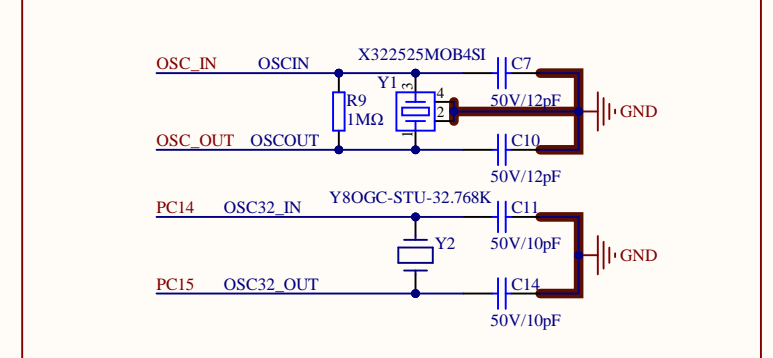
SWD



VCP(Virtual COM Port)



HXTAL&LXTAL



Project Title: GD32F5HCR-EVAL

Sheet Title: MCU

Size:
A4

Designer: boya.jiang

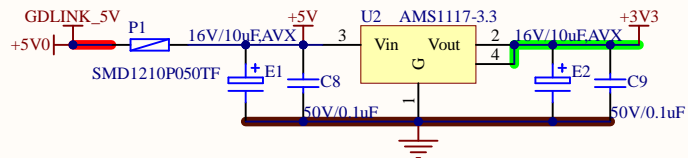
Revision: 1.0

Sheet: 1 of 11

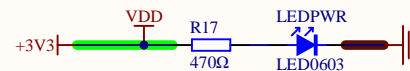
Date: 2025.07



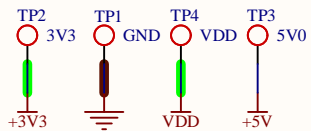
3V3 Power Supply



Power LED

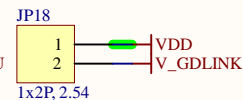
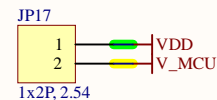


Test Point



Power Consumption

^A Notice:
If you want to test the MCU's power consumption, connect the multimeter in series to [JP17](#).



Project Title: GD32F5HCR-EVAL

Sheet Title: Power

Size:
A4

Designer: [boya.jiang](#)

Revision: 1.0

Sheet: 2 of 11

Date: 2025.07



V_GD LINK

JP100

1

2

3

4

L_SWDIO

L_SWDCK

GND

SMD, 1x4P, 2.54

V_GDLINK

R102
10KΩ

L_NIRST

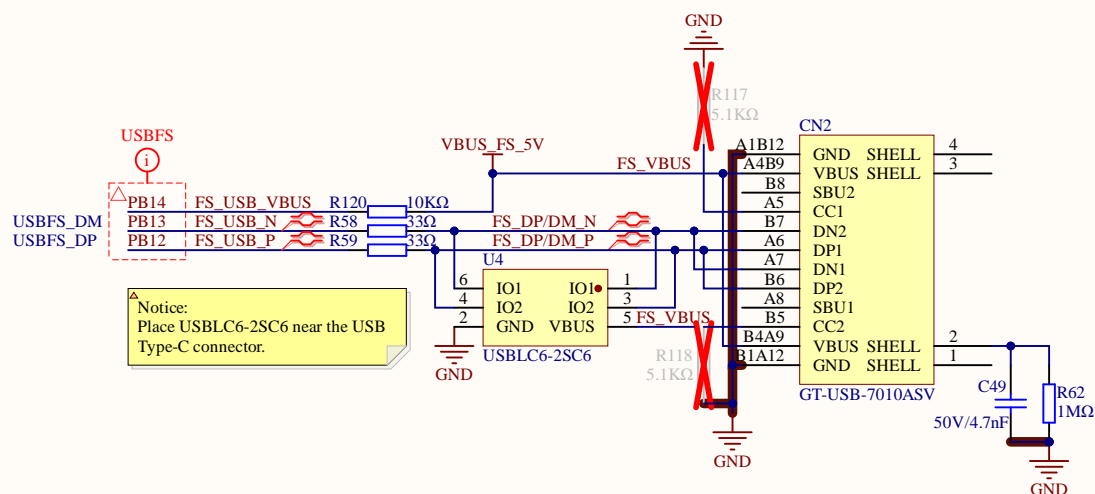
C103
50V/0.1μF

GND

[illegible]

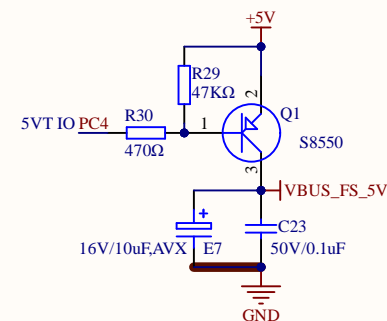
Size:
A4

USB_FS



Notice:
By default, the two 5.1KΩ resistors are not installed. If using Type-C to Type-C cables, these two 5.1KΩ resistors need to be installed, and then the USB can be used as a slave device.

USB_FS VBUS Power Control



Project Title: **GD32F5HCR-EVAL**

Sheet Title: **USB_FS**

Size:
A4

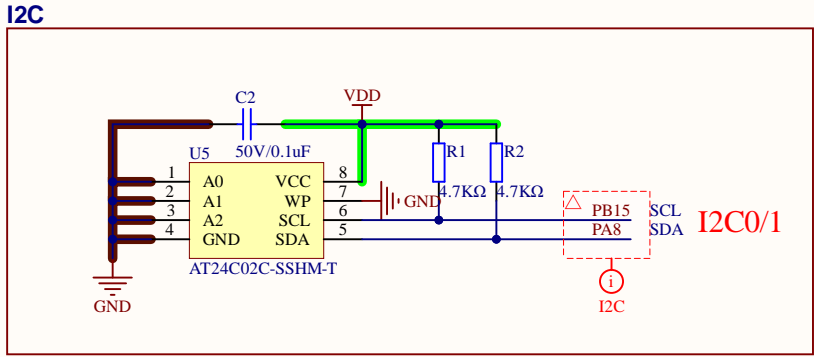
Designer: **boya.jiang**

Revision: **1.0**

Sheet: **4 of 11**

Date: **2025.07**





Project Title: **GD32F5HCR-EVAL**

Sheet Title: **I2C**

Size:
A4

Designer: **boya.jiang**

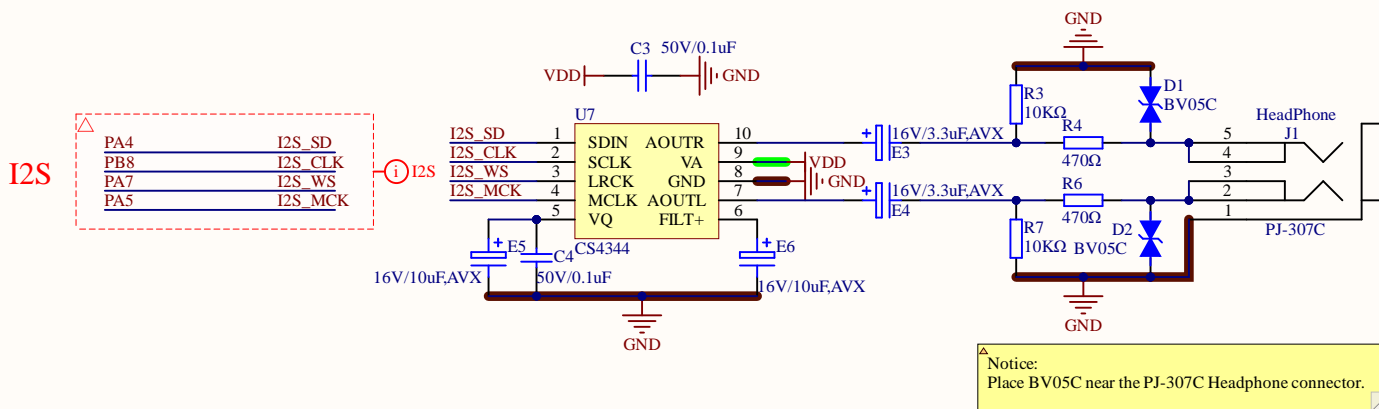
Revision: **1.0**

Sheet: **5 of 11**

Date: **2025.07**



12S



Project Title: GD32F5HCR-EVAL

Sheet Title: I2S

Size:
A4

Designer: [boya.jiang](#)

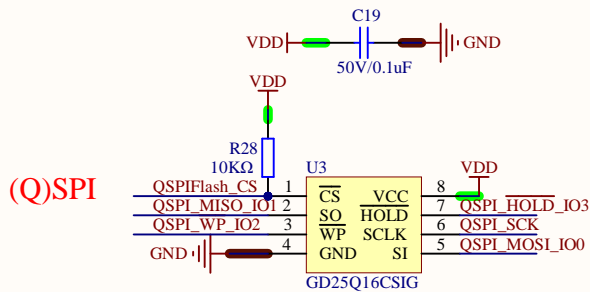
Revision: 1.0

Sheet: 6 of 11

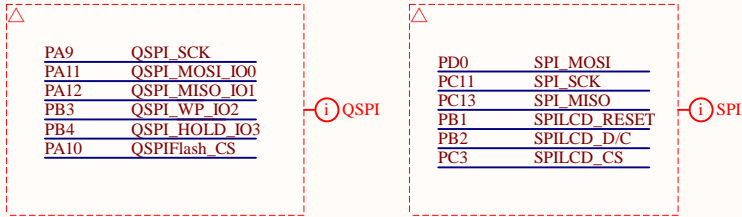
Date: 2025.07



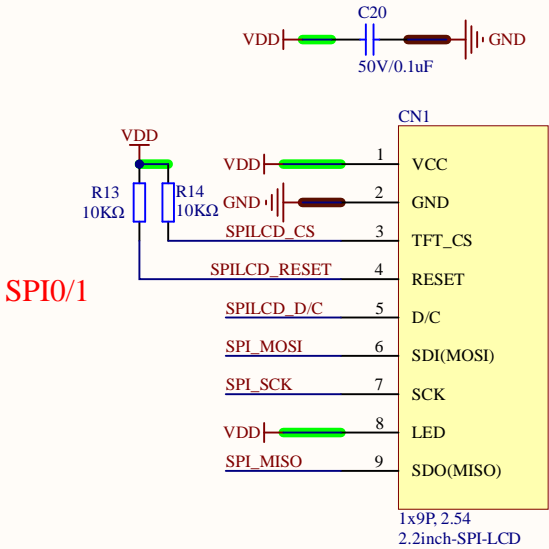
(Q)SPI Flash



Signal IO Map



SPI LCD



Project Title: GD32F5HCR-EVAL

Sheet Title: SPI

Size:
A4

Designer: boya.jiang

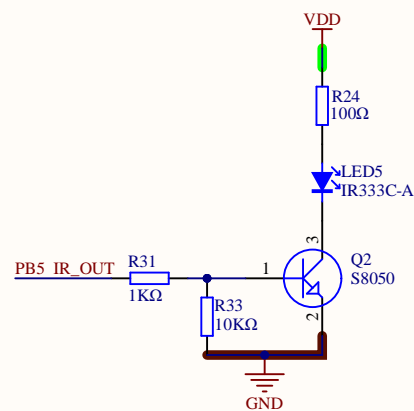
Revision: 1.0

Sheet: 7 of 11

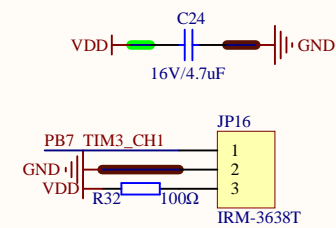
Date: 2025.07



IFRP Infrared Emitter



IFRP Infrared Receiver



Project Title: **GD32F5HCR-EVAL**

Sheet Title: **IFRP**

Size:
A4

Designer: **boya.jiang**

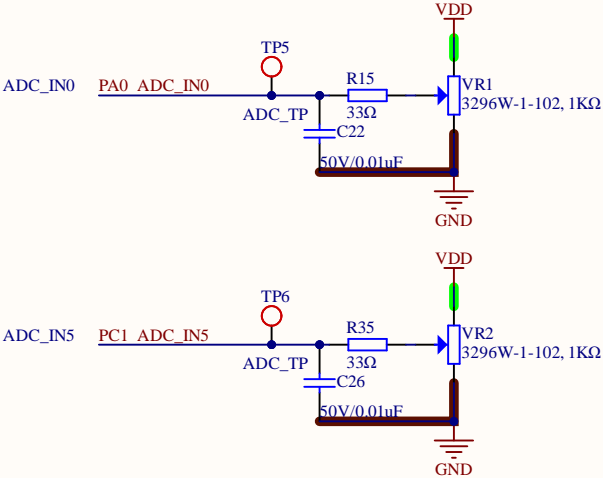
Revision: **1.0**

Sheet: **8 of 11**


Date: **2025.07**



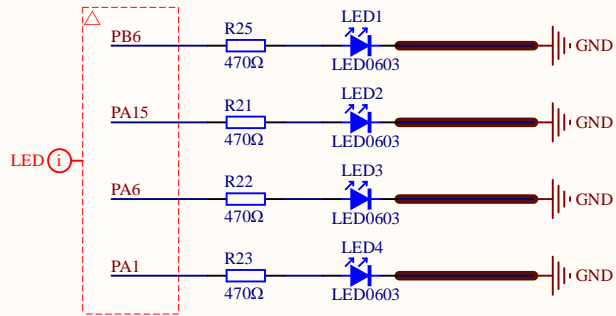
ADC



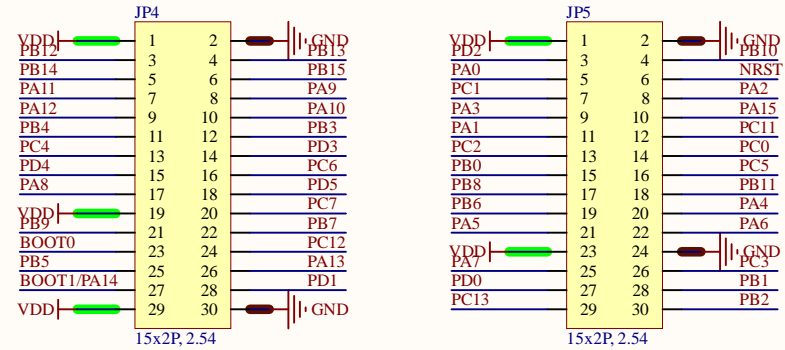
△ Notice:
The capacitors and resistors of the low-pass filter need to be placed close to the ADC input channel, especially the capacitors.

Project Title: GD32F5HCR-EVAL			
Sheet Title: ADC			Size: A4
Designer: boya.jiang	Revision: 1.0	 GigaDevice	
Sheet: 9 of 11	Date: 2025.07		

LED

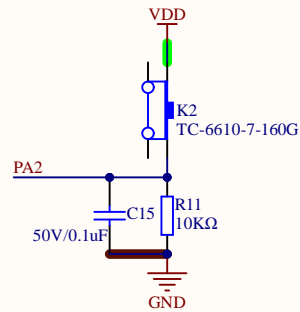


Extension Pin



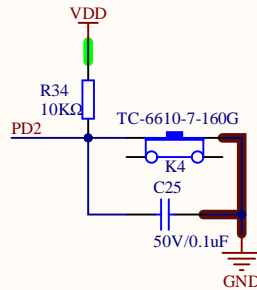
WKUP Key

WKUP & RTC_TAMP1

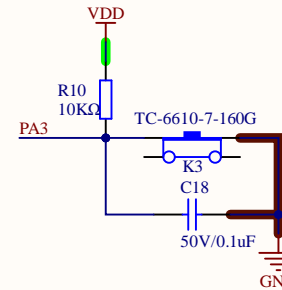


User Key

User Key1



User Key2



Project Title: **GD32F5HCR-EVAL**

Sheet Title: **Extension**

Size:
A4

Designer: **boya.jiang**

Revision: **1.0**

Sheet: **10 of 11**

Date: **2025.07**



LOGO & Precautions

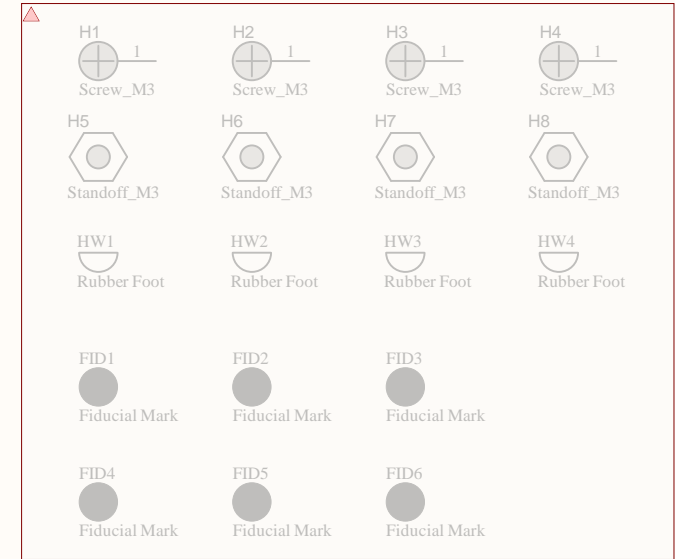
LG1
PCB
LOGO
GD32-LOGO

LG4

GD32-LOGO-No touching



Assembly Parts



Variants Notes

Variants Name	Description
Default	Default assembly options

Project Title: **GD32F5HCR-EVAL**

Sheet Title: **Assembly Parts**

Size:
A4

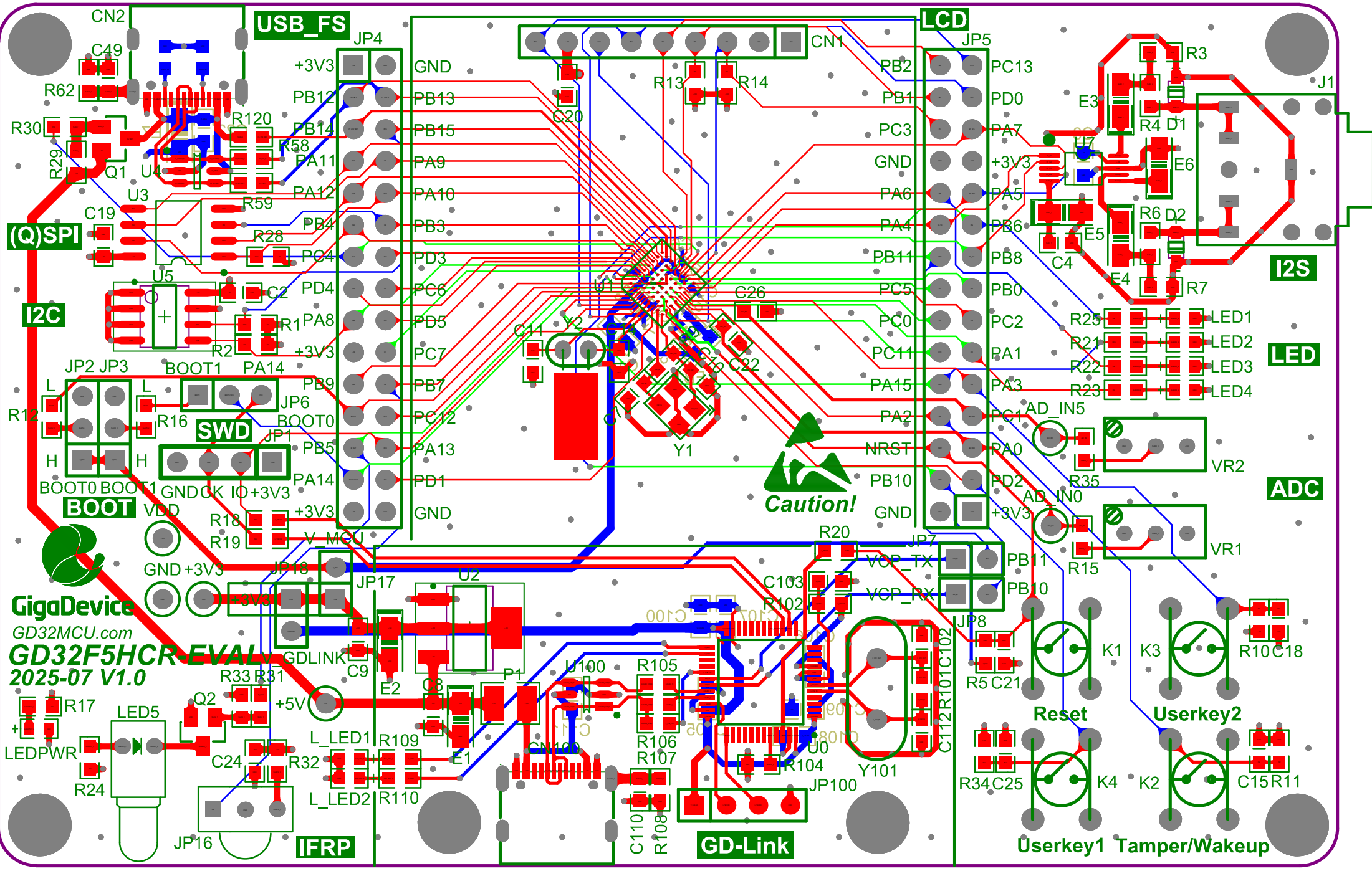
Designer: **boya.jiang**

Revision: **1.0**

Sheet: **11 of 11**

Date: **2025.07**





GigaDevice
GD32MCU.com
GD32F5HCR-EVAL
2025-07 V1.0

Caution!

Reset
Userkey1
Userkey2
Tamper/Wakeup