JDI屏幕+LB551调试使用说明

概述

该文档使用硬件：

SiFli LB551核心板+EI_LB55XXXXXX001_V1.1底板+JDI屏幕(JDI387A)

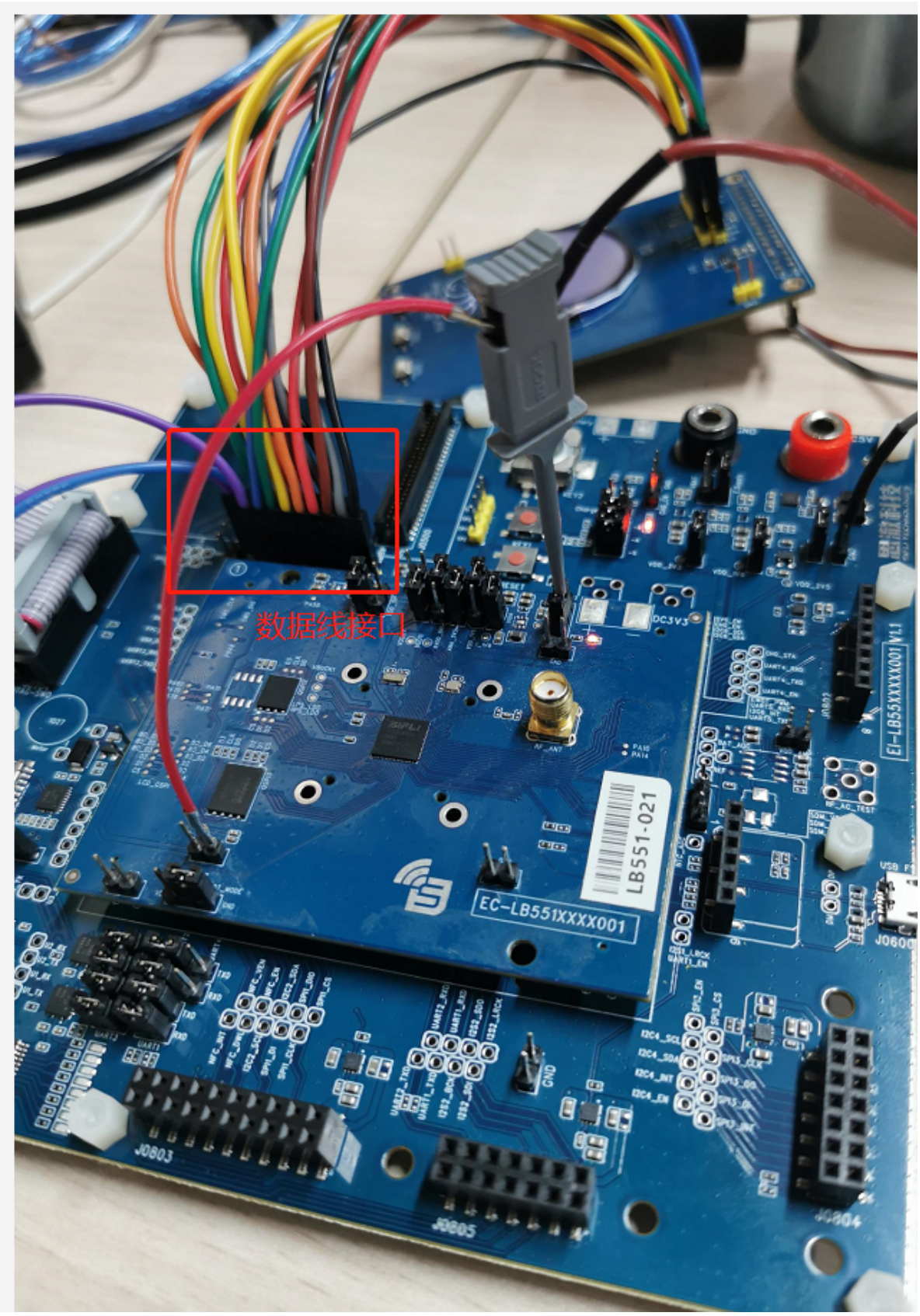
Jlink调试器

使用的软件：

SiFli SDK V1.0.4版本以及相关的开发环境

硬件

数据线连线


数据线接口
EC-LB551XXXX001
LB551-021
J0803
J0805
J0804
J0600
GND

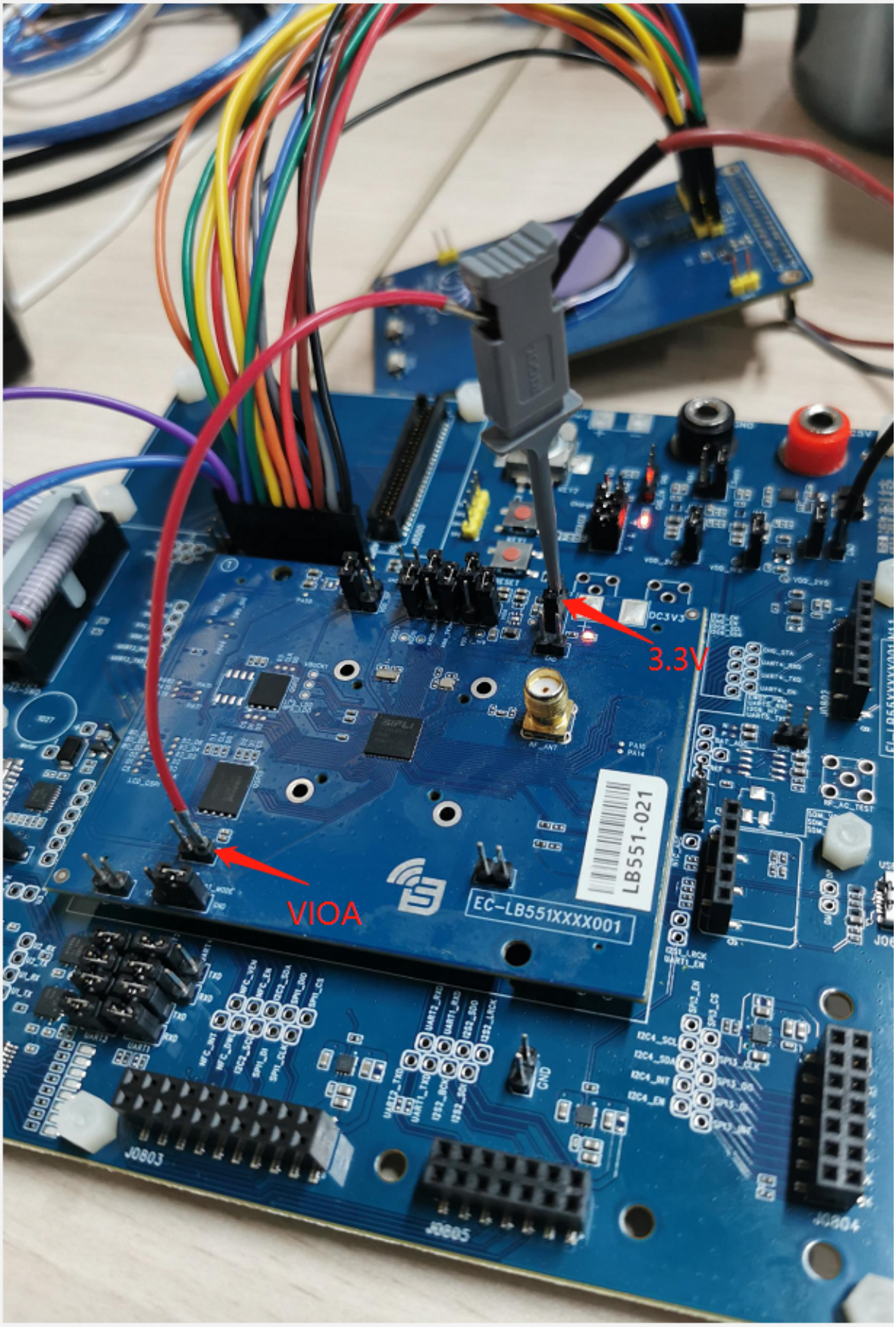
Function_0	V1.1底板管脚丝印	JDI
GPIO_A51	D6	R2
GPIO_A47	D4	VCOM
GPIO_A44	D2	FRP
GPIO_A38	QD2	HST
GPIO_A20	CLK	VCK
GPIO_A34	QD0	XRST
GPIO_A77	TE	G2
GPIO_A79	EN	B2

Function_0	V1.1底板管脚丝印	JDI
GPIO_A55	D7	G1
GPIO_A49	D5	R1
GPIO_A45	D3	XFRP
GPIO_A42	QD3	ENB
GPIO_A31	CS	VST
GPIO_A36	QD1	HCK
GPIO_A78	RST	B1

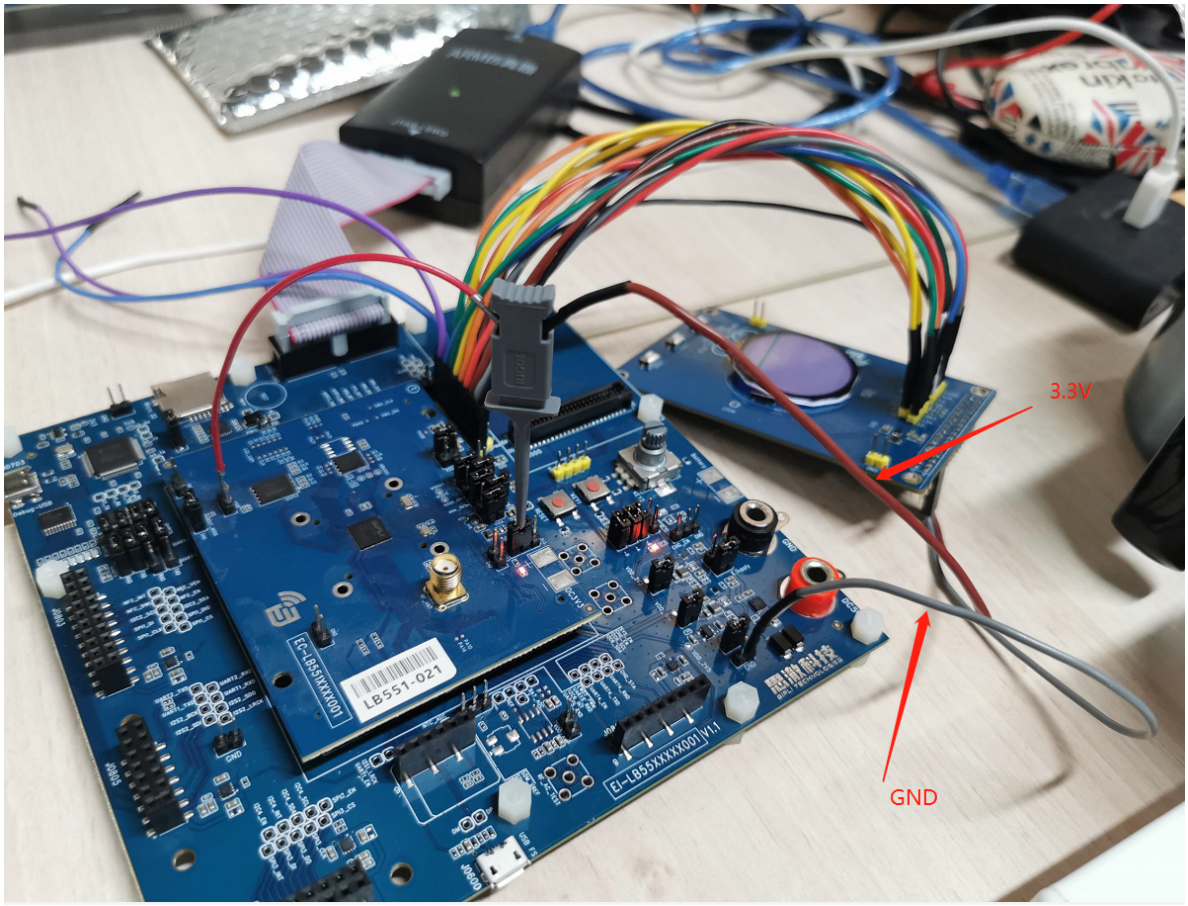
电源

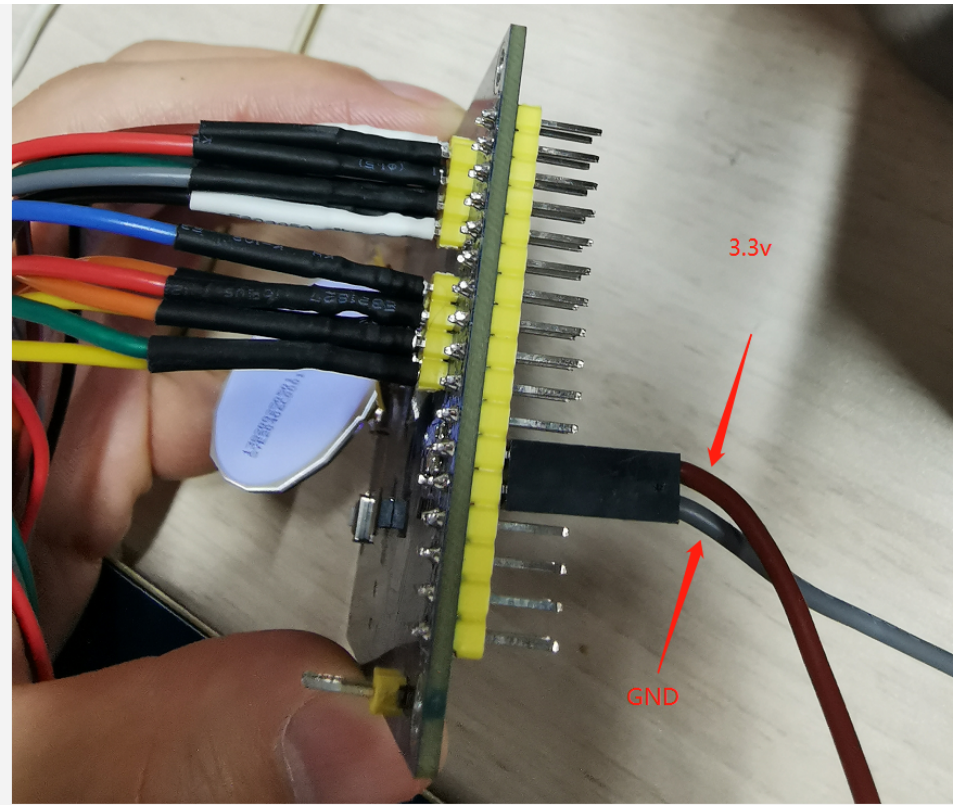
开发板的VIOA电平改为3.3V

(因为这边用到的JDI接口是3.3V)


3.3V
VIOA
EC-LB551XXXX001
LB551-021
J0803
J0805

屏幕电源





软件

有2个工程可供调试：

rt_driver工程　　- 用来调试屏幕触控的一个简单工程

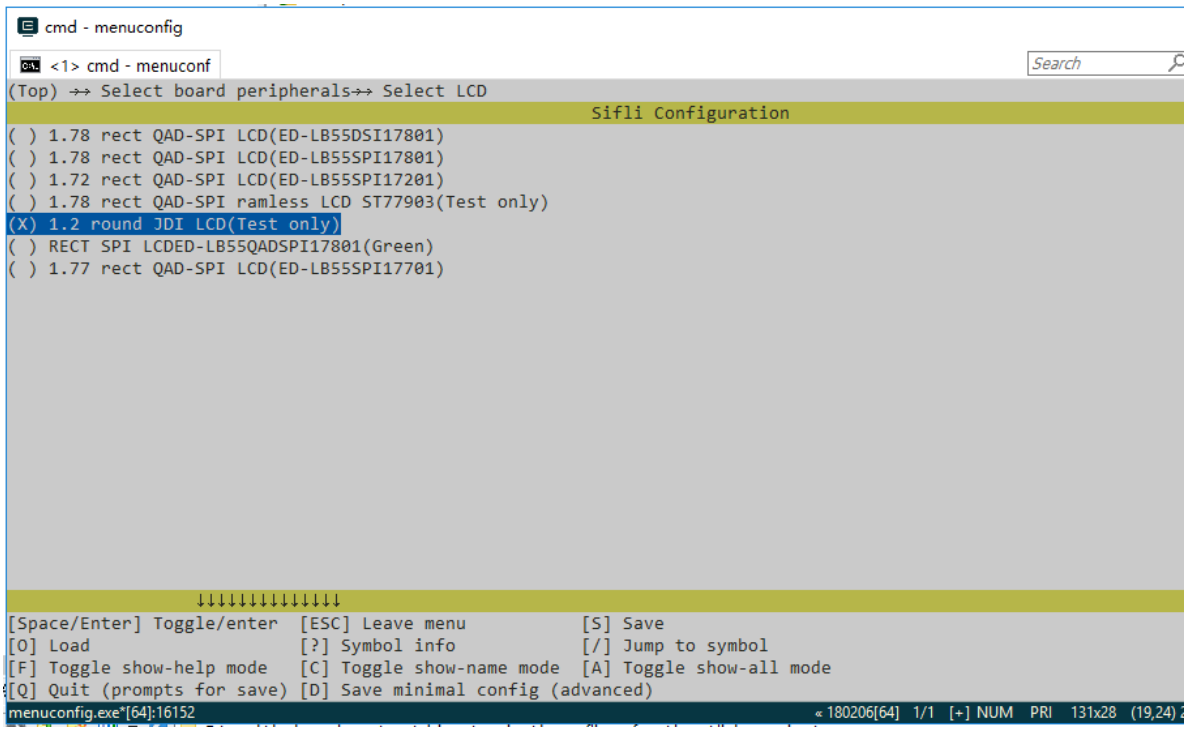
watch_demo工程 - 该工程是手表方案的一个示例工程，较复杂

跑rt_driver工程

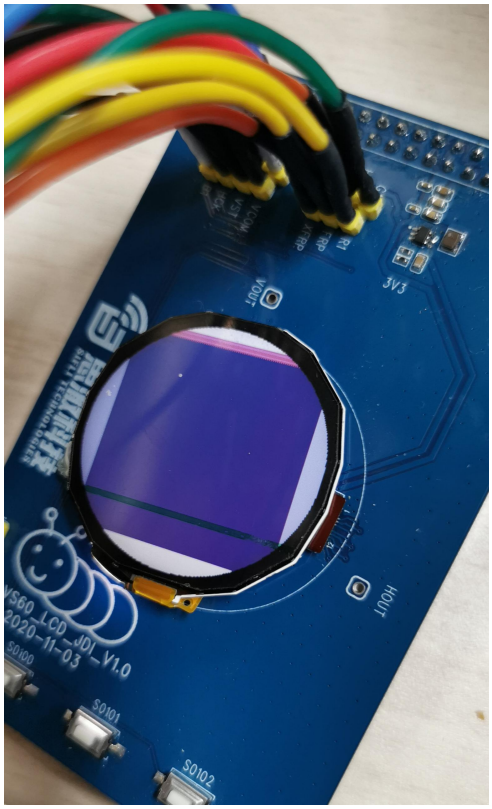
工程路径

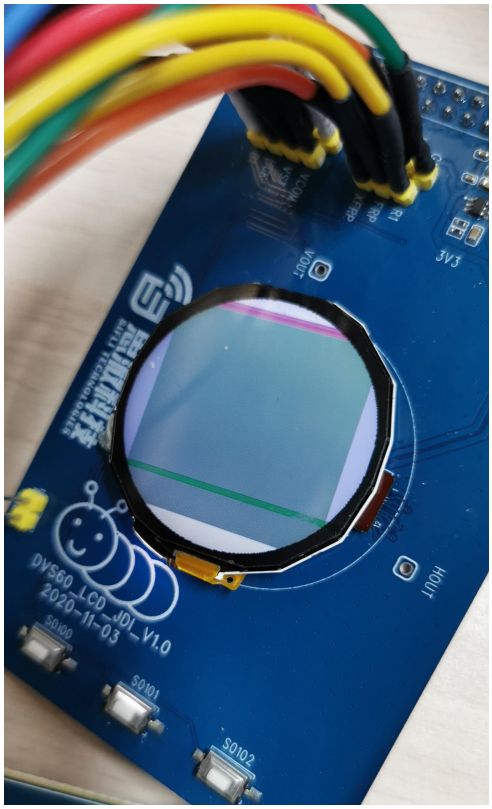
SiFli_Release_V1.0.4\example\rt_driver\project\ec-lb551

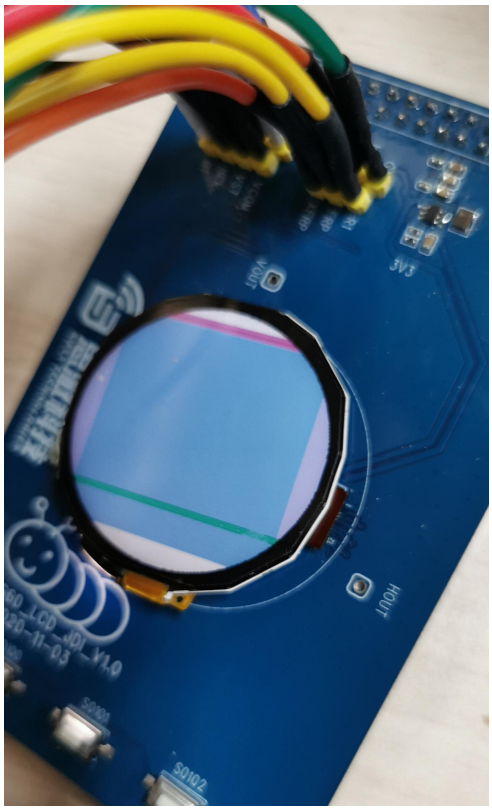
menuconfig配置


cmd - menuconfig
<1> cmd - menuconf
Search
(Top) →→ Select board peripherals→→ Select LCD
Sifli Configuration
( ) 1.78 rect QAD-SPI LCD(ED-LB55DSI17801)
( ) 1.78 rect QAD-SPI LCD(ED-LB55SPI17801)
( ) 1.72 rect QAD-SPI LCD(ED-LB55SPI17201)
( ) 1.78 rect QAD-SPI ramless LCD ST77903(Test only)
(X) 1.2 round JDI LCD(Test only)
( ) RECT SPI LCDED-LB55QADSPI17801(Green)
( ) 1.77 rect QAD-SPI LCD(ED-LB55SPI17701)
↓↓↓↓↓↓↓↓↓↓↓↓↓
[Space/Enter] Toggle/enter [ESC] Leave menu [S] Save
[O] Load [?] Symbol info [/] Jump to symbol
[F] Toggle show-help mode [C] Toggle show-name mode [A] Toggle show-all mode
[Q] Quit (prompts for save) [D] Save minimal config (advanced)
menuconfig.exe*[64]:16152
« 180206[64] 1/1 [+] NUM PRI 131x28 (19,24)

效果图





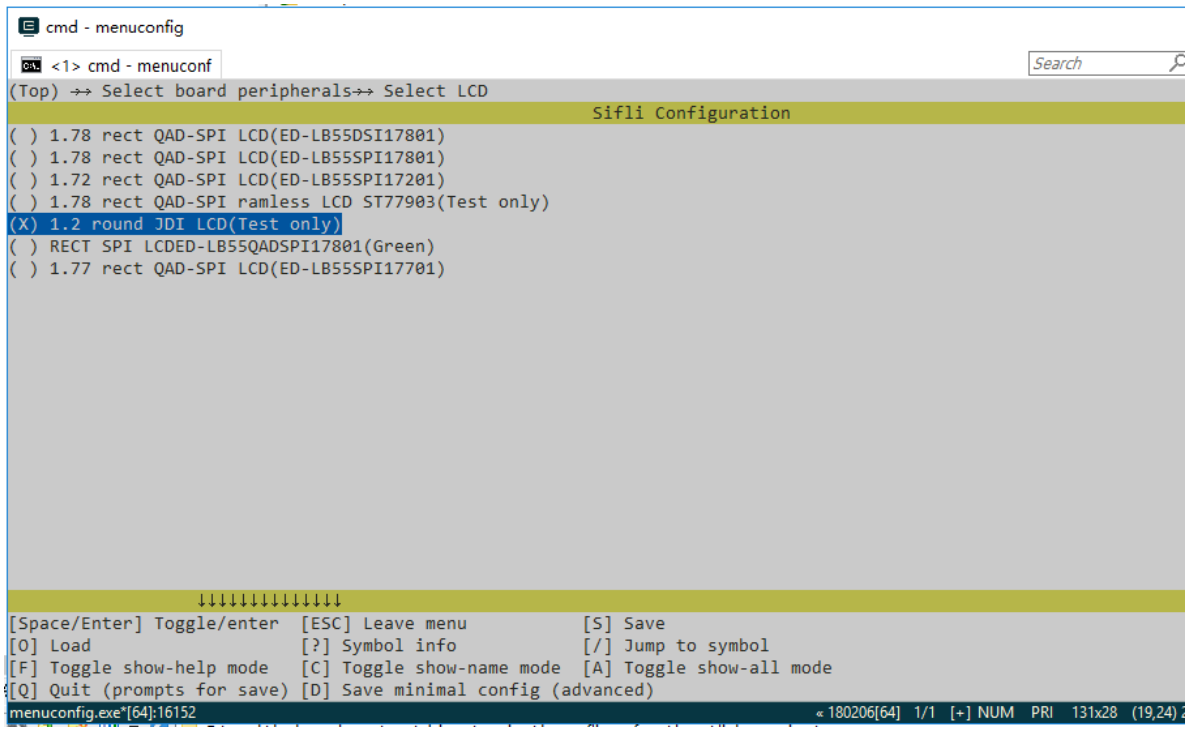


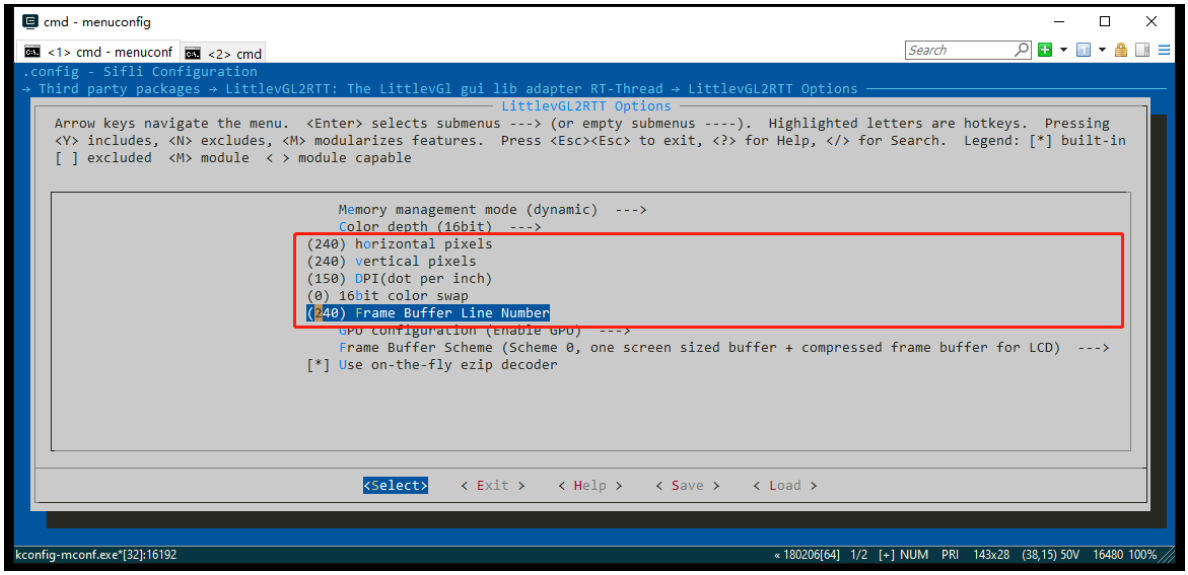
跑watch_demo工程

工程路径

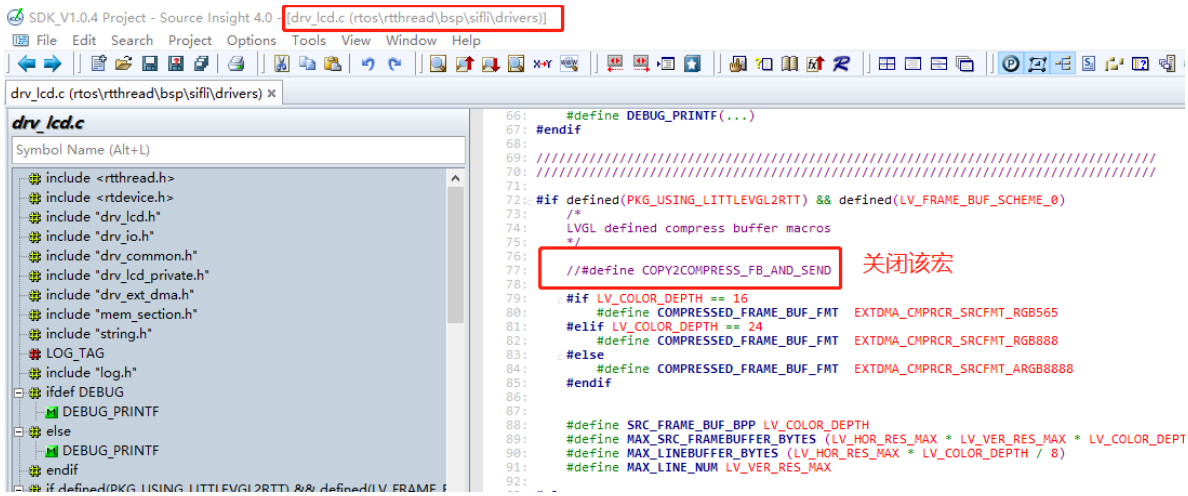
SiFli_Release_V1.0.4\example\watch_demo\project\ec-lb551

menuconfig配置





修改代码关闭PSRAM framebuffer



修改代码的一个bug

将文件

SiFli_Release_V1.0.4\example\watch_demo\resource\images\common**ezip**\kaleidoscope.png

移动到

SiFli_Release_V1.0.4\example\watch_demo\resource\images\common**no_ezip**\kaleidoscope.png

效果图


技
思
澈
澈
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科
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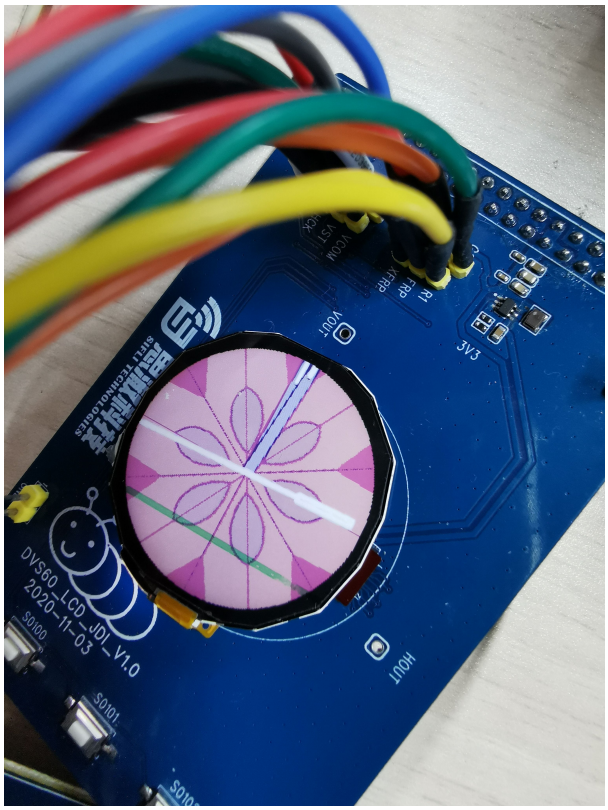
DVS60_LCD_JDI_V1.0
2020-11-03
VOUT
HOUT
3V3


DVS60_LCD_JDI_V1.0
2020-11-03
VOUT
HOUT
3V3