

Wio Terminal Testplan

1.Flash Bootloader

Firmware flash tool

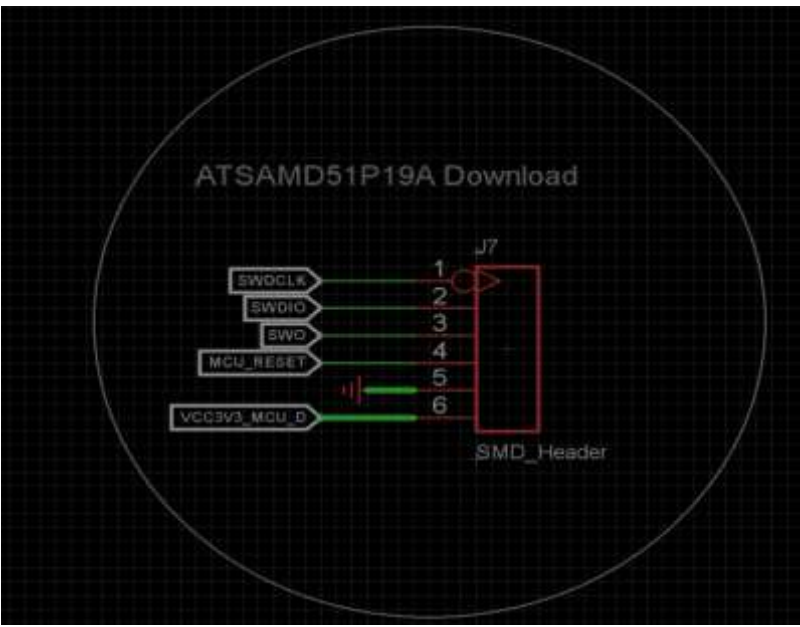
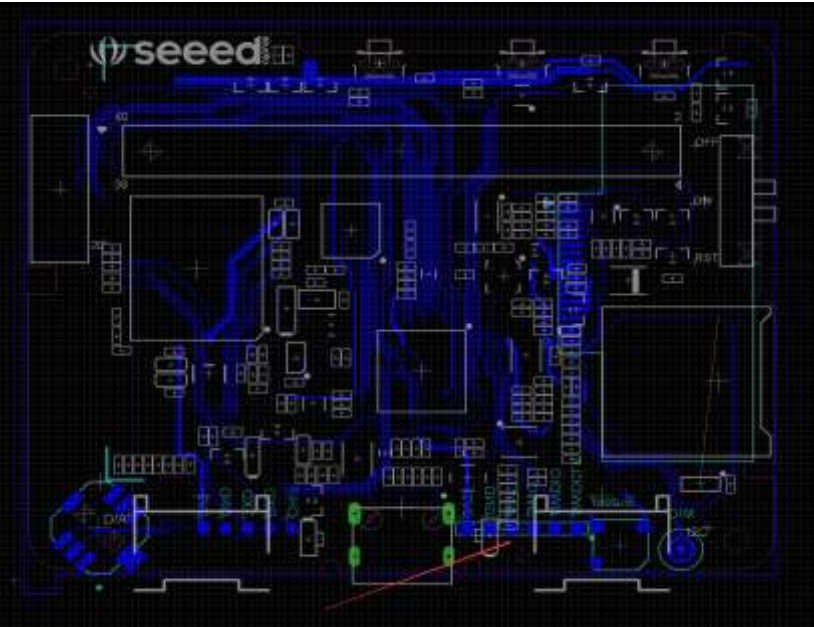
[J-Link BASE Debug Probe](#)



VTref	1	●	●	2	NC
Not used	3	●	●	4	GND
Not used	5	●	●	6	GND
SWDIO	7	●	●	8	GND
SWCLK	9	●	●	10	GND
Not used	11	●	●	12	GND
SWO	13	●	●	14	*
RESET	15	●	●	16	*
Not used	17	●	●	18	*
5V-Supply	19	●	●	20	*

Wio Terminal port for program firmware

No.	JLink		Wio Terminal	
1	Pin-1	VTref	J7-6	VCC3V3_MCU
2	Pin-7	SWDIO	J7-2	SWDIO
3	Pin-9	SWCLK	J7-1	SWDCLK
4	Pin-12	GND	J7-5	GND



flash script

```
@ECHO OFF
ECHO start to auto processing and exit
cd bootloader_upload_script_samd51
JFlash.exe -openprjDefault.jflash -openbootloader-wio_terminal-v3.7.0-79-gd73dd64.bin -auto -exit
IF ERRORLEVEL 1 goto ERROR
goto END

:ERROR
ECHO J-Flash program Error!!
cd ..
pause

:END
```

[bootloader upload script samd51.zip](#)

2.Flash test firmware

After flash the bootloader, connect Wio Terminal 's type C port to PC.

Flash test firmware to Wio Terminal.

flash script

```
cd firmware_upload_script_usb
python2 0.testcode_flash.py 6
python2 1.ReceiveSerial.py
cd..
```

[firmware_upload_script_usb.zip](#)

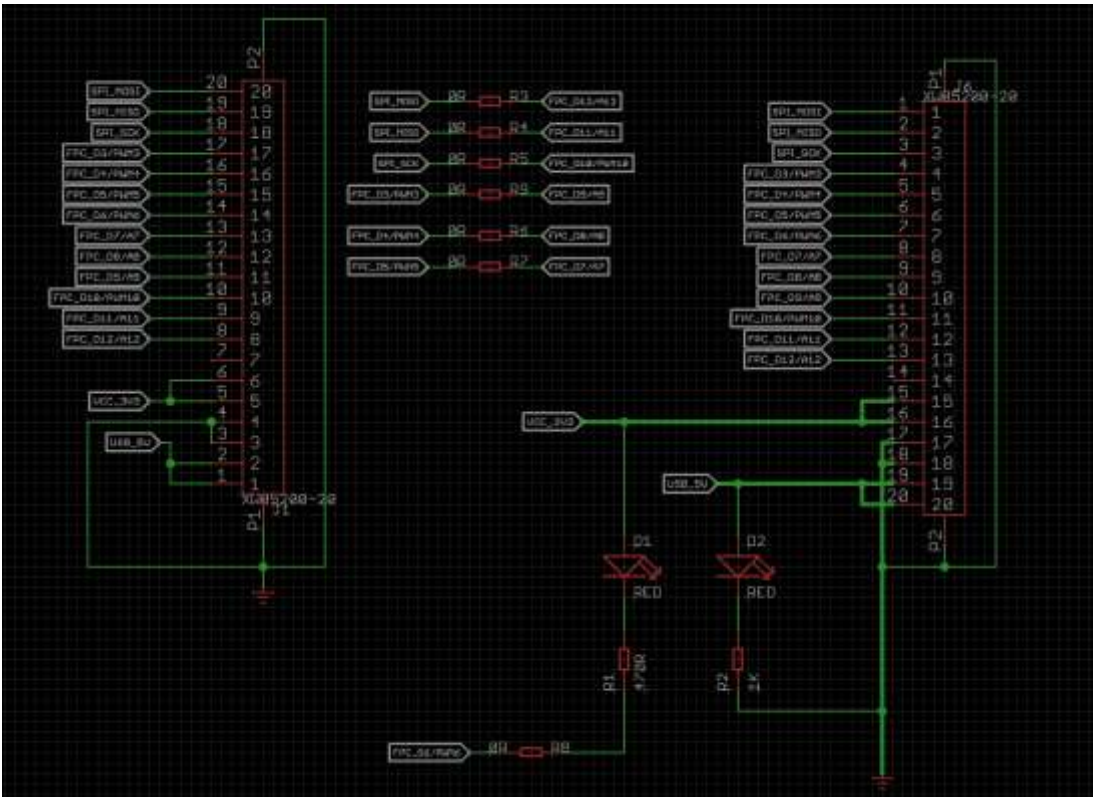
3.Function test

3.1 Screen Test

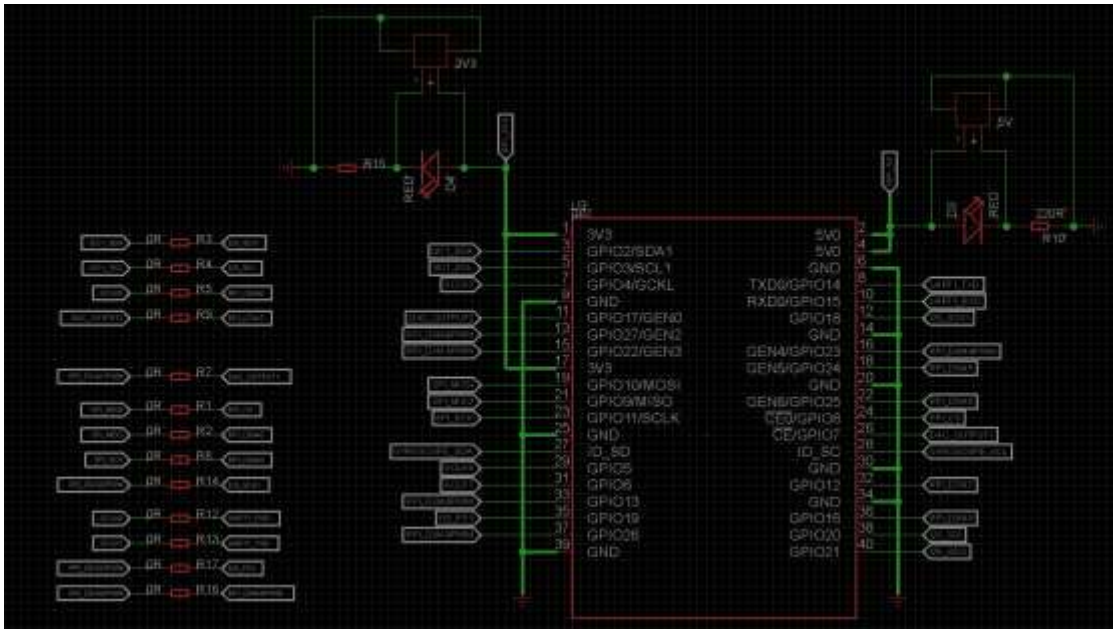


3.2 Function Test

Hardware connection when testing-fpc connector



Hardware connection when testing-Raspberry Pi Header



4.Flash End User Firmware

After complete the function test, flash the end user firmware to Wio Terminal
flash script

```
echo %time%
cd ambd_flash_tool
:ambd_flash_tool.exe flash
python ambd_flash_tool.py erase
if %errorlevel% NEQ 0 goto error

timeout /t 1
python ambd_flash_tool.py flash
if %errorlevel% NEQ 0 goto error

timeout /t 2
cd ..
echo %time%
cd firmware_upload_script_usb
python2 0.testcode_flash.py 2
cd..
pause

:error
echo command failed
pause
```

[ambd_flash_tool.zip](#)

After flash the firware, the screen will show as below

