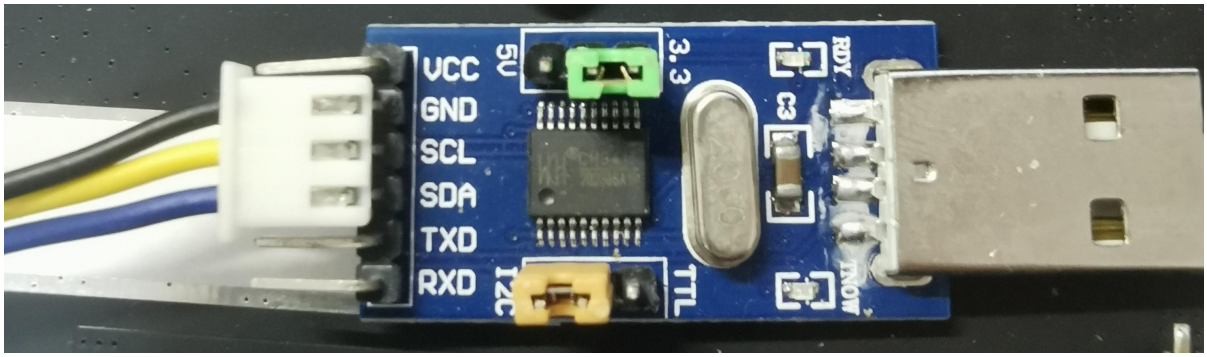
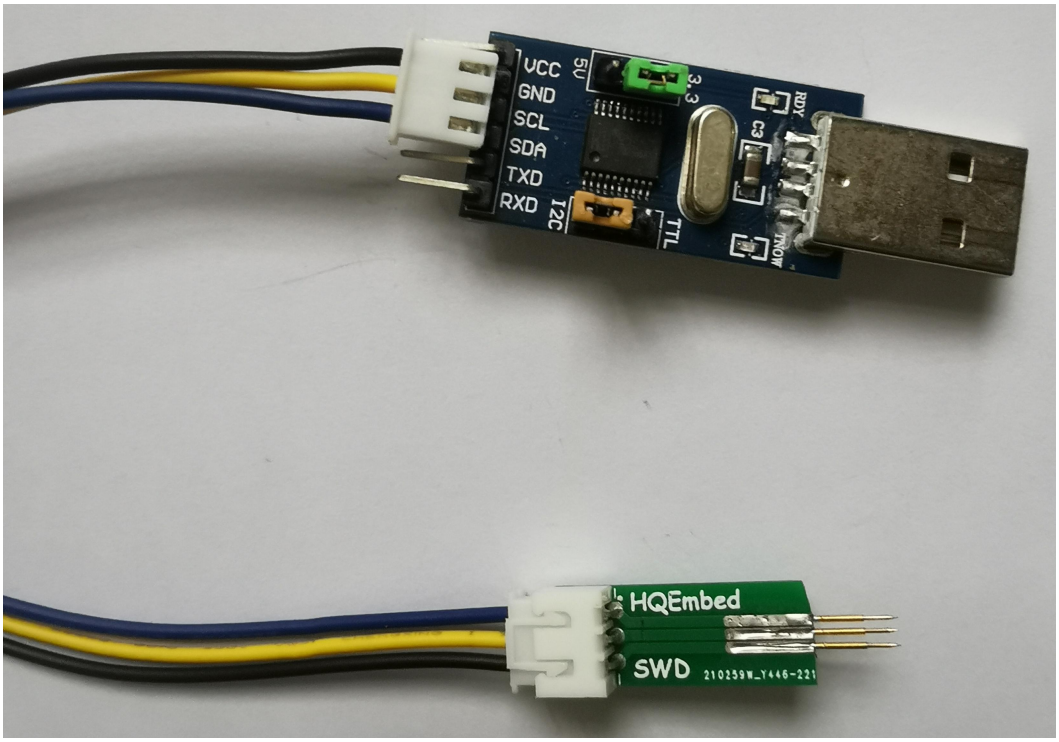
ElecLab Display Firmware Update Guide

Items to prepare:

- Windows PC
- LT1605_I2C2SPI_V2_100k.exe(From LT6911_download_tool.rar)/ Upgrade_Flash_For_Application.exe(From LONTIUM_download_tool.rar)
- USB to IIC board(CH341),For example:



- XH2.54 3P cable
- MX1.27 3P programming probe (can be made using MX1.27_Probe_3P_Gerber file)



- ElecLab 7.84"/8.8"/10.1"/10.3" (LT6911C)HDMI displaY
- USB Type-c cable

1. Download the upgrade tools and firmware from github

https://github.com/eleclab-rpi/Display_Firmware/tree/main/HDMI_101_2560x1600

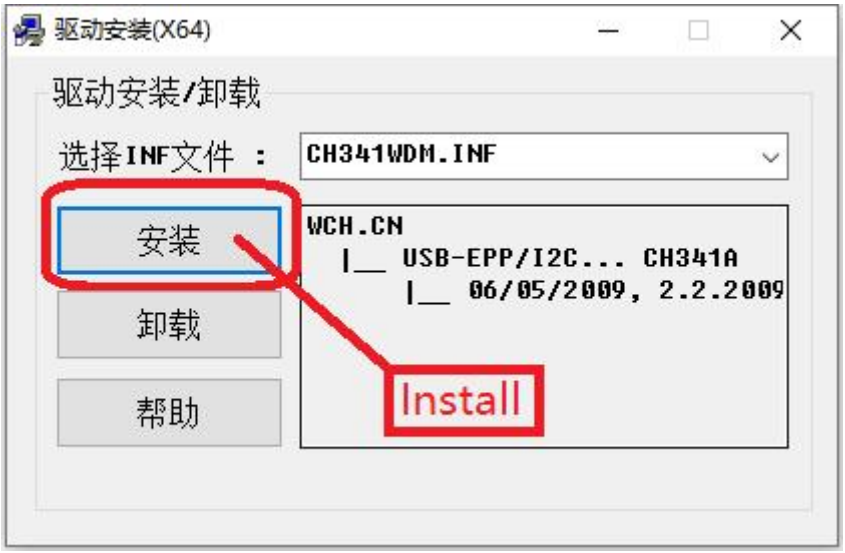
Display_Firmware / HDMI_101_2560x1600 /

eleclab-rpi Create LONTIUM_download_tool.rar

Name	Last commit message
..	
CH341_USB_IIC_Driver	add 10.1 2560x1600
ElecLab LT6911C Firmware Update Guide.pdf	Create ElecLab LT6911C Firmware Update Guide.pdf
LONTIUM_download_tool.rar	Create LONTIUM_download_tool.rar
LT6911_BH112HD_FL7707_COPY_MODE_RPI5_Bookworm.hex	add 8.8 10.1 11.26 inch firmware
LT6911_HSD088IPW1_COPY_MODE_RPI5_Bookworm.hex	add 8.8 10.1 11.26 inch firmware
LT6911_LQ101R1SX01A_RPI5_Bookworm.hex	add 8.8 10.1 11.26 inch firmware
LT6911_download_tool.rar	add 10.1 2560x1600
MX1.27_Probe_3P_Gerber.rar	Create MX1.27_Probe_3P_Gerber.rar

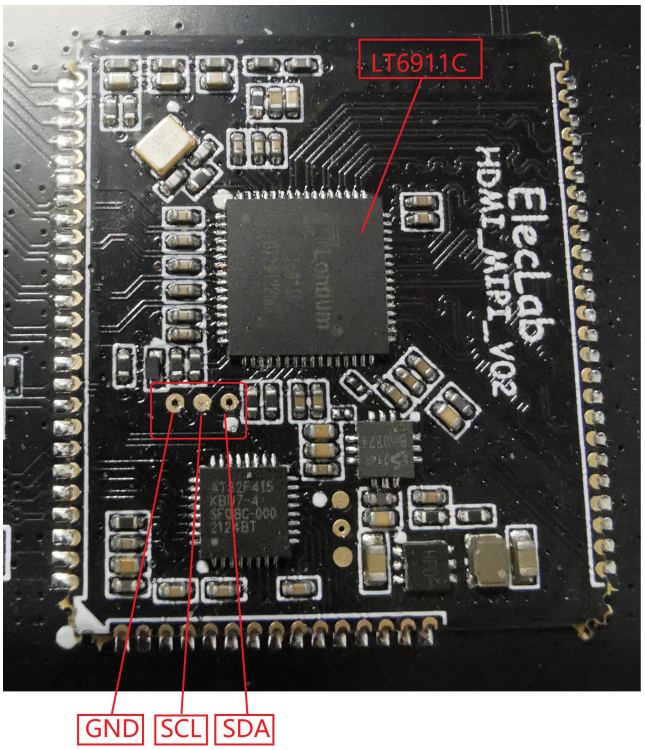
2. Unzip LT6911_download_tool.rar/LONTIUM_download_tool.rar

3. Install CH341 i2c_driver.exe



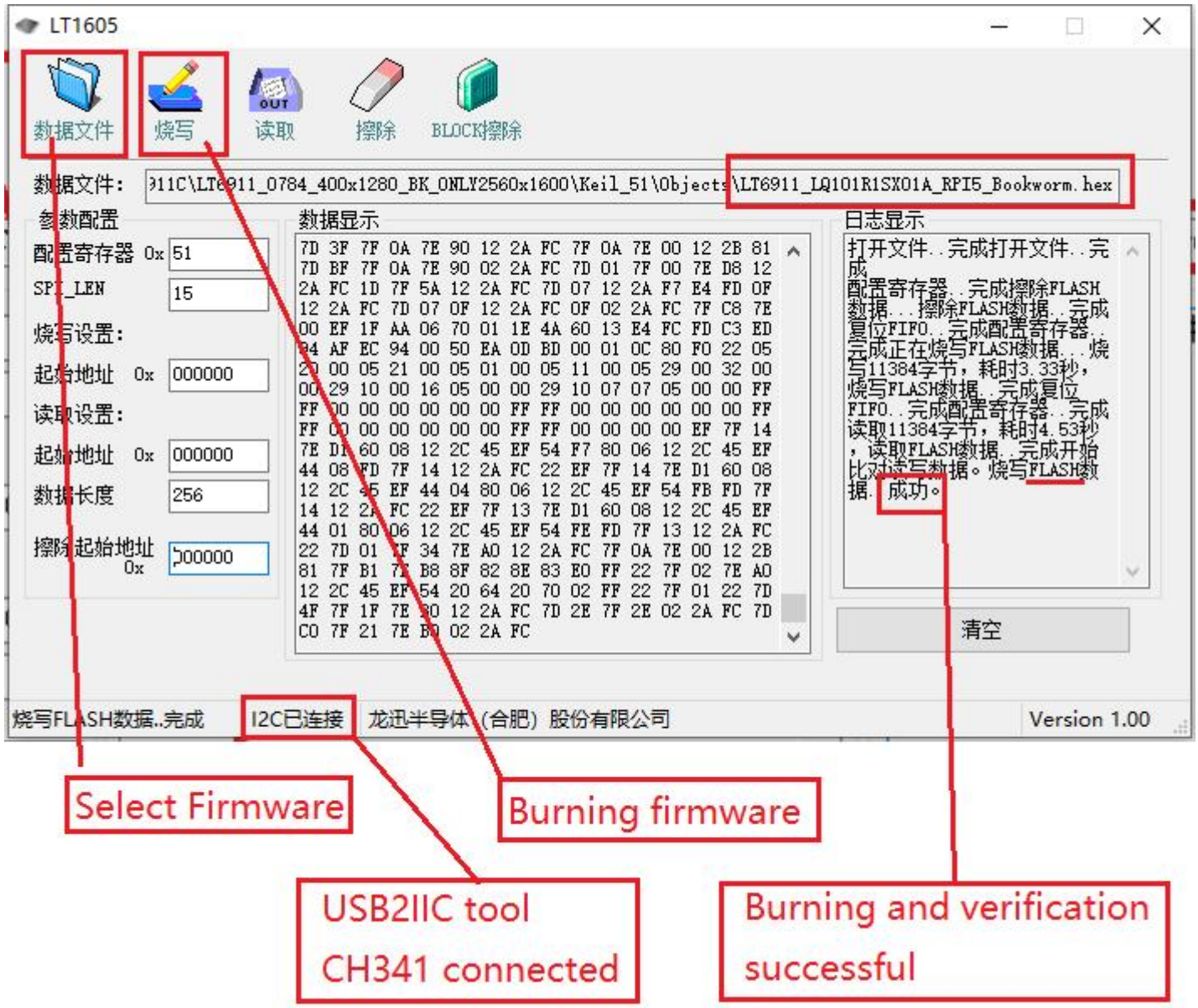
4.Preparation

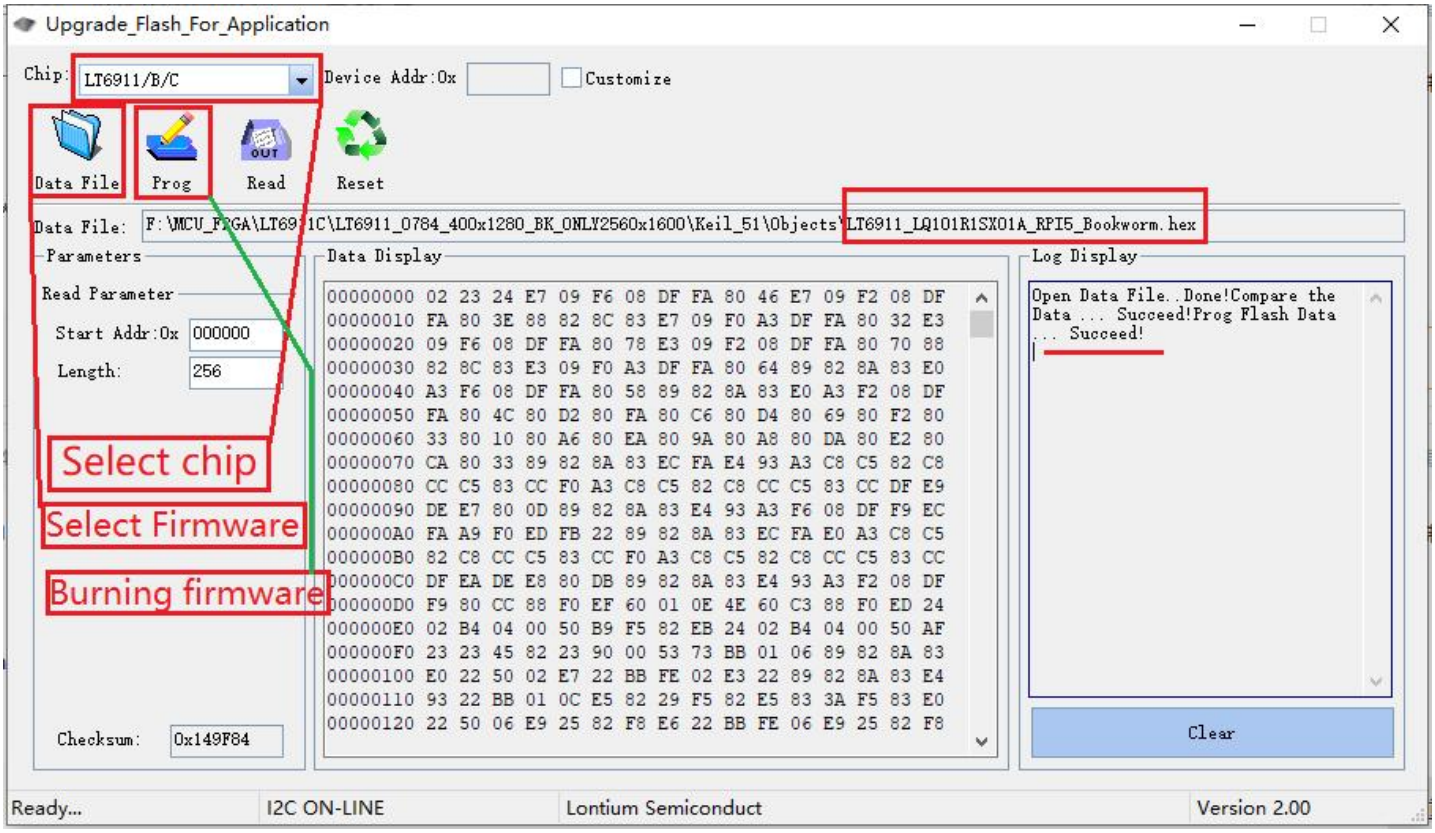
1. Power the display using the USB Type-c cable
2. Connect CH341 USB2IIC board to PC
3. Use a probe or directly solder a 3P cable to the 3P MX1.27 test point of the LT6911C.



4. Open

LT1605_I2C2SPI_V2_100k.exe/Upgrade_Flash_For_Application.exe on PC.




Upgrade_Flash_For_Application
Chip:
LT6911/B/C
Device Addr:0x
Customize
Data File
Prog
Read
Reset
Data File:
F:\MCU_FPGA\LT6911C\LT6911_0784_400x1280_BK_ONLY2560x1600\Keil_51\Objects\LT6911_LQ101R1SX01A_RPI5_Bookworm.hex
Parameters
Read Parameter
Start Addr:0x
000000
Length:
256
Select chip
Select Firmware
Burning firmware
Checksum:
0x149F84
Data Display
00000000 02 23 24 E7 09 F6 08 DF FA 80 46 E7 09 F2 08 DF
00000010 FA 80 3E 88 82 8C 83 E7 09 F0 A3 DF FA 80 32 E3
00000020 09 F6 08 DF FA 80 78 E3 09 F2 08 DF FA 80 70 88
00000030 82 8C 83 E3 09 F0 A3 DF FA 80 64 89 82 8A 83 E0
00000040 A3 F6 08 DF FA 80 58 89 82 8A 83 E0 A3 F2 08 DF
00000050 FA 80 4C 80 D2 80 FA 80 C6 80 D4 80 69 80 F2 80
00000060 33 80 10 80 A6 80 EA 80 9A 80 A8 80 DA 80 E2 80
00000070 CA 80 33 89 82 8A 83 EC FA E4 93 A3 C8 C5 82 C8
00000080 CC C5 83 CC F0 A3 C8 C5 82 C8 CC C5 83 CC DF E9
00000090 DE E7 80 0D 89 82 8A 83 E4 93 A3 F6 08 DF F9 EC
000000A0 FA A9 F0 ED FB 22 89 82 8A 83 EC FA E0 A3 C8 C5
000000B0 82 C8 CC C5 83 CC F0 A3 C8 C5 82 C8 CC C5 83 CC
000000C0 DF EA DE E8 80 DB 89 82 8A 83 E4 93 A3 F2 08 DF
000000D0 F9 80 CC 88 F0 EF 60 01 0E 4E 60 C3 88 F0 ED 24
000000E0 02 B4 04 00 50 B9 F5 82 EB 24 02 B4 04 00 50 AF
000000F0 23 23 45 82 23 90 00 53 73 BB 01 06 89 82 8A 83
00000100 E0 22 50 02 E7 22 BB FE 02 E3 22 89 82 8A 83 E4
00000110 93 22 BB 01 0C E5 82 29 F5 82 E5 83 3A F5 83 E0
00000120 22 50 06 E9 25 82 F8 E6 22 BB FE 06 E9 25 82 F8
Log Display
Open Data File..Done!Compare the Data ... Succeed!Prog Flash Data ... Succeed!
Clear
Ready...
I2C ON-LINE
Lontium Semiconduct
Version 2.00