



















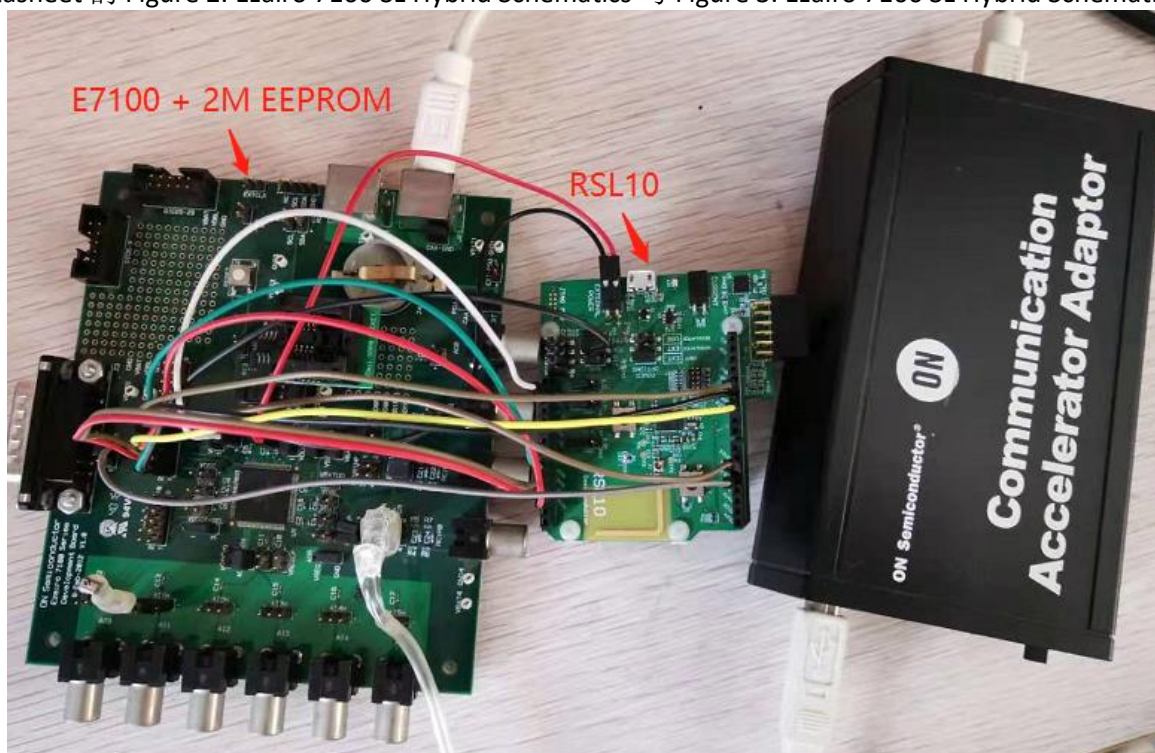


本示例演示如何使用  **E7160SL Firmware Update Tool** 刷新 E7160sl 固件到 E7110+RSL10 芯片。

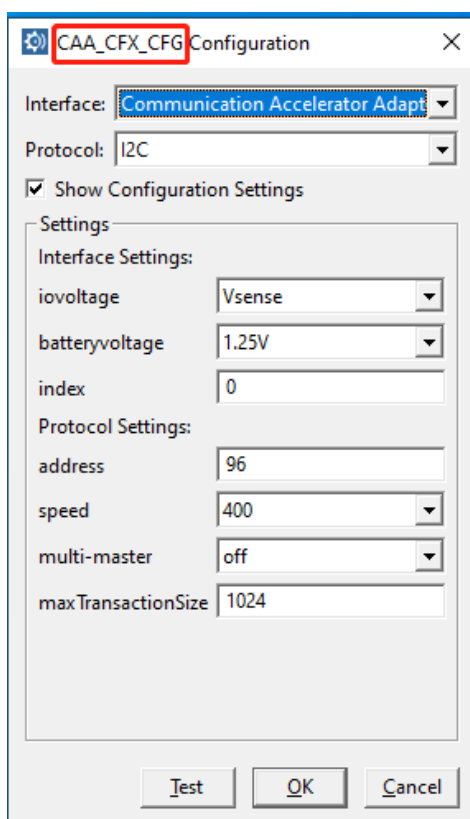
登陆 MyON 下载  **E7160SL-1.11.1428.zip** , 1.11.1428 为当前最新固件版本号。
确认如下文件在同一文件夹下

	bootloader.bin	5/20/2020 9:42 PM	BIN File	4 KB
	bootloader.bin.md5	5/20/2020 9:42 PM	MD5 File	1 KB
	bootloader.hex	5/20/2020 9:42 PM	HEX File	11 KB
	bootloader.hex.md5	5/20/2020 9:42 PM	MD5 File	1 KB
	ctk.pyd	2/5/2018 1:29 AM	PYD File	104 KB
	E7160SL_1.11.1428.bundle	5/20/2020 10:21 PM	BUNDLE File	3,511 KB
	E7160SL_1.11.1428.bundle.md5	5/20/2020 10:21 PM	MD5 File	1 KB
	E7160SL_1.11.1428.nvi	5/20/2020 7:00 PM	EEPROM Image Fil...	250 KB
	E7160SL_1.11.1428.nvi.md5	5/20/2020 7:00 PM	MD5 File	1 KB
	MSVCR71.dll	2/5/2018 1:29 AM	Application exten...	340 KB
	nvmd.exe	2/5/2018 1:29 AM	Application	354 KB
	python25.dll	2/5/2018 1:29 AM	Application exten...	2,068 KB
	readme.txt	9/3/2020 4:51 PM	TXT File	6 KB
	RSL10_app.bin	5/20/2020 9:41 PM	BIN File	214 KB
	RSL10_app.bin.md5	5/20/2020 9:41 PM	MD5 File	1 KB
	RSL10_app.hex	5/20/2020 9:41 PM	HEX File	601 KB
	RSL10_app.hex.md5	5/20/2020 9:41 PM	MD5 File	1 KB
	RSL10_updater.exe	5/19/2020 10:29 AM	Application	3,464 KB

本例使用 E7100 EVB + RSL10 EVB 进行演示，系统硬件连接如下图. 具体信息参考 E7160sl datasheet 的 Figure 2. Ezairo 7160 SL Hybrid Schematics 与 Figure 3. Ezairo 7160 SL Hybrid Schematics



打开 CTK（安装包在 E7160sl SDK 中），根据现有固件配置 CTK。本例配置如下



打开 CMD 命令行工具，首先升级 E7100 固件，输入如下命令。具体命令含义见 readme 文档

```
Command Prompt
C:\Users\...\Desktop\E7160SL Firmware Update Tool>
C:\Users\...\Desktop\E7160SL Firmware Update Tool>
C:\Users\...\Desktop\E7160SL Firmware Update Tool>nvmd.exe E7160SL_1.11.1428.nvi -u -b 3 -v -c CAA_CFX_CFG
Initializing communications interface...
Reading image file...
File System: SK4FS
Description:
Copyright:
Target device is SK4
Connecting to device...
Connected!
Disabling block write protect...
Loading data from the image...
Image size: 242615
Memory size: 262144
Block details:
  Name:
  Type:   SysArea
  Source:
```

```
Name:
Type:   App
Source:
Data Size:36 bytes
Address: 0x3b393
Writing block...
Setting block write protect...
Download completed, disconnecting...
```

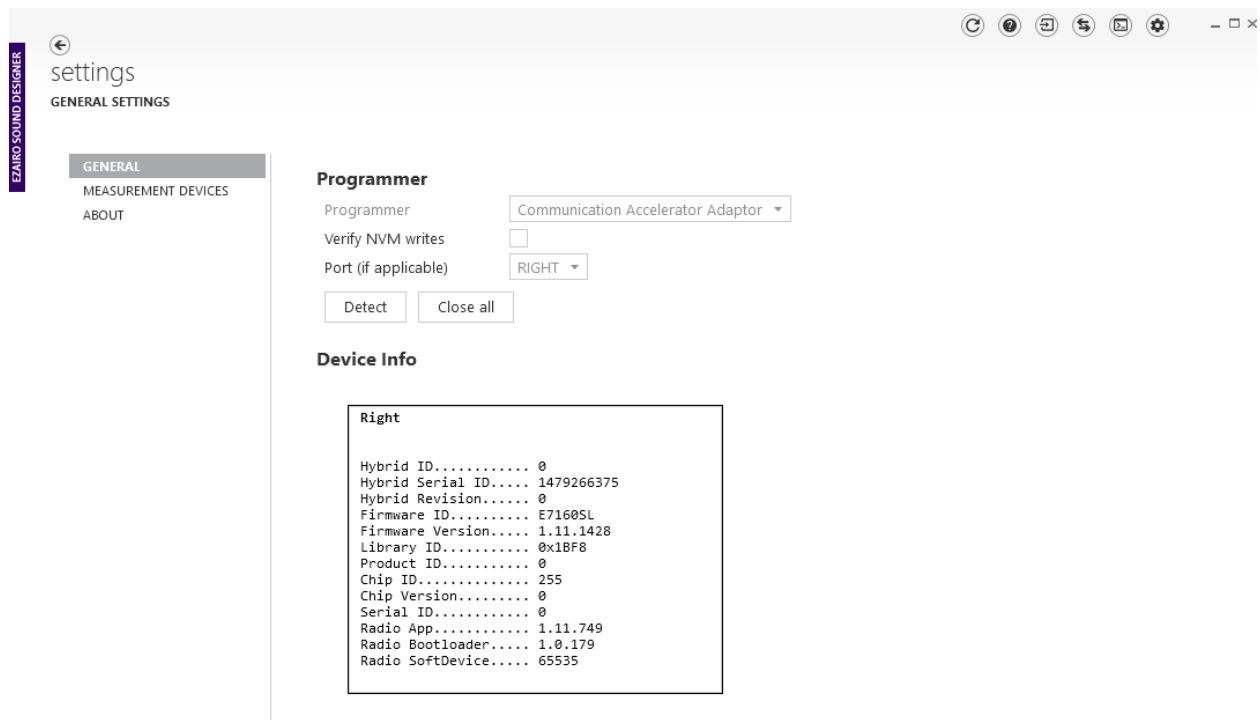
至此，E7100 固件烧写完成。输入如下命令烧写 RSL10 bootloader

```
C:\Users\...\Desktop\E7160SL Firmware Update Tool>RSL10_Updater.exe bootloader.bin --CAA --force
Image      : RSLBootr ver=1.0.179
Application: E7160SL ver=1.11.749
Bootloader : RSLBootr ver=1.0.179
Progress: 100%
Image update successful!
Rebooting...
All done!
```

然后烧写 RSL10 app 固件

```
C:\Users\...\Desktop\E7160SL Firmware Update Tool>RSL10_Updater.exe RSL10_app.bin --CAA
Image      : E7160SL ver=1.11.749
Application: E7160SL ver=1.11.749
Bootloader : RSLBootr ver=1.0.179
Progress: 100%
Image update successful!
Rebooting...
All done!
```

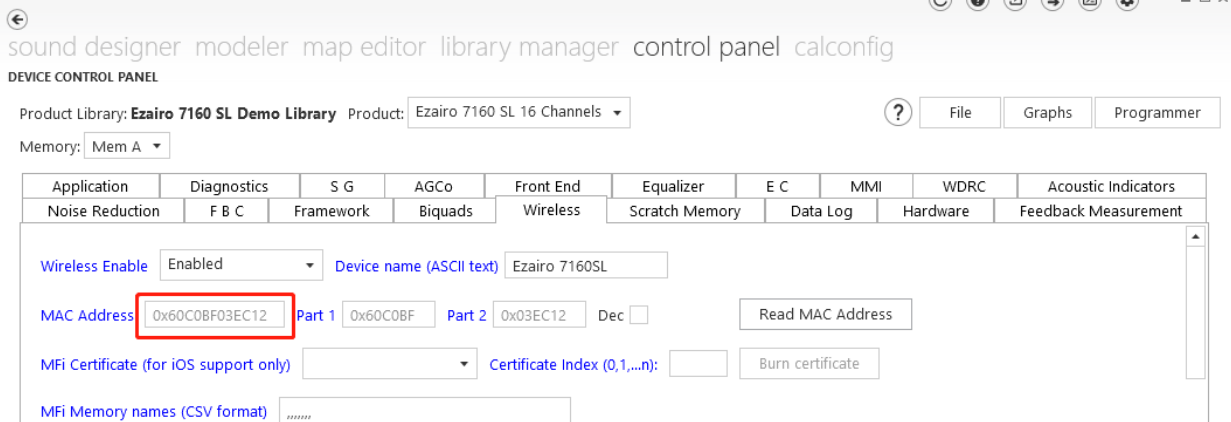
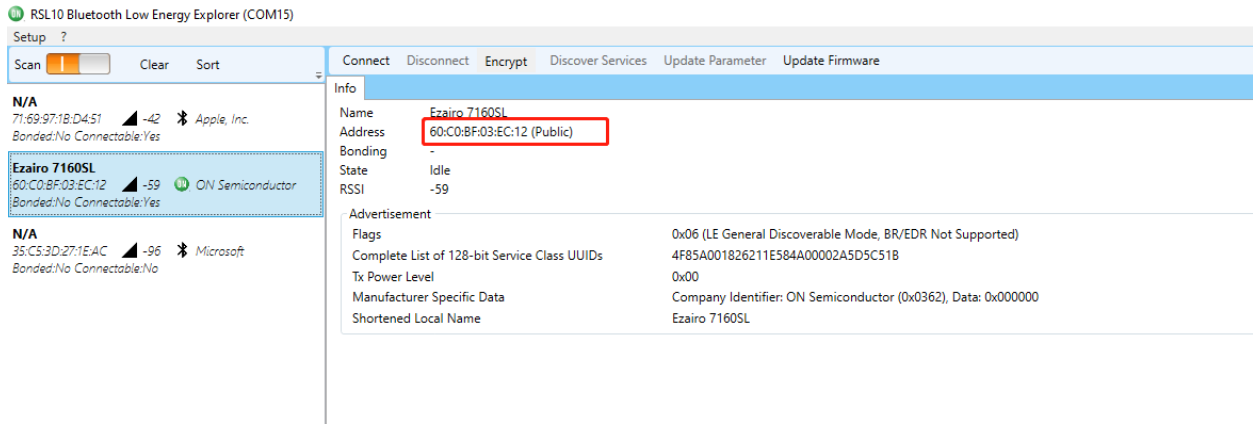
至此，E7160sl 整个固件更新全部完成，可以打开 SD 工具查看当前固件版本信息等



测试验证

SD 中打开 Audiotest 工程并烧写到板子上。

1. 在 E7100 耳机端能听到放大后的声音
2. 打开 BLE explore 可以通过 RSL10 dongle 搜索到 E7160sl

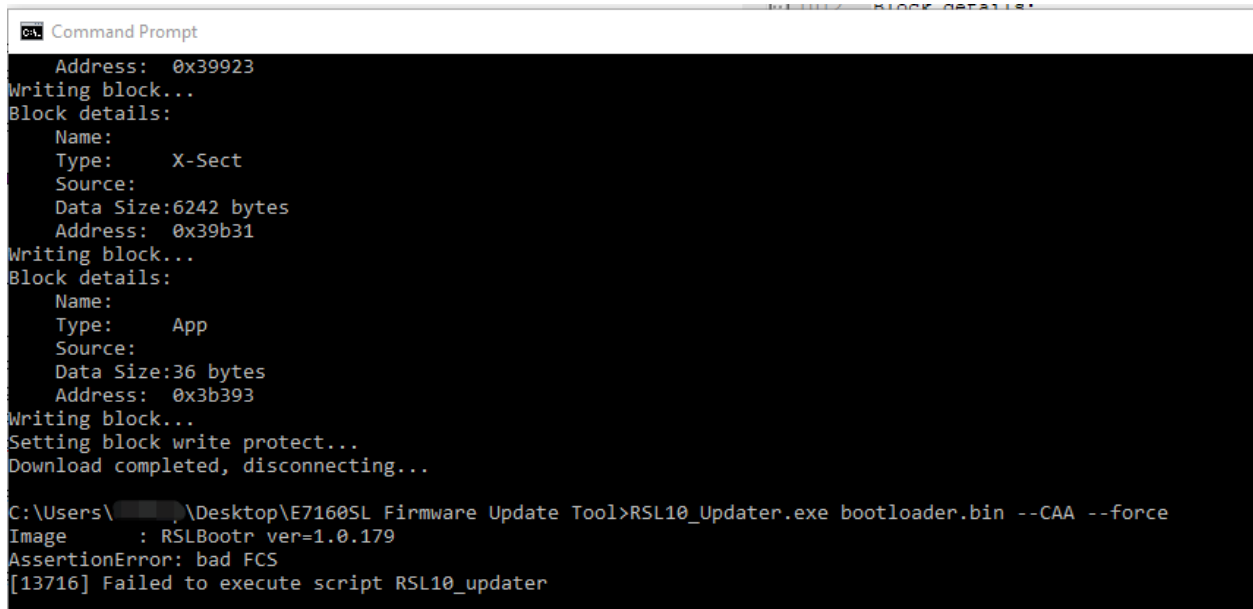


3. 给 TV streamer 上电，可以听到 BLE 传输的音频。

至此，使用以上方式，E7110+RSL10 可以进行 E7160sl pre-suit 固件烧写并工作正常

常见问题

1.在烧写 RSL10 bootloader 时，可能与遇到烧写失败的情况。由于 E7100 与 RSL10 外接杜邦线连接不稳定造成，请使用 flash loader 通过 JTAG 对 RSL10 的 boot loader.hex 进行直接烧写。



2. 有时会发现 BLE 不工作，由于通信过程中 E7100 与 RSLL10 外接杜邦线连接不稳定造成。
请重新烧写 BLE 固件

