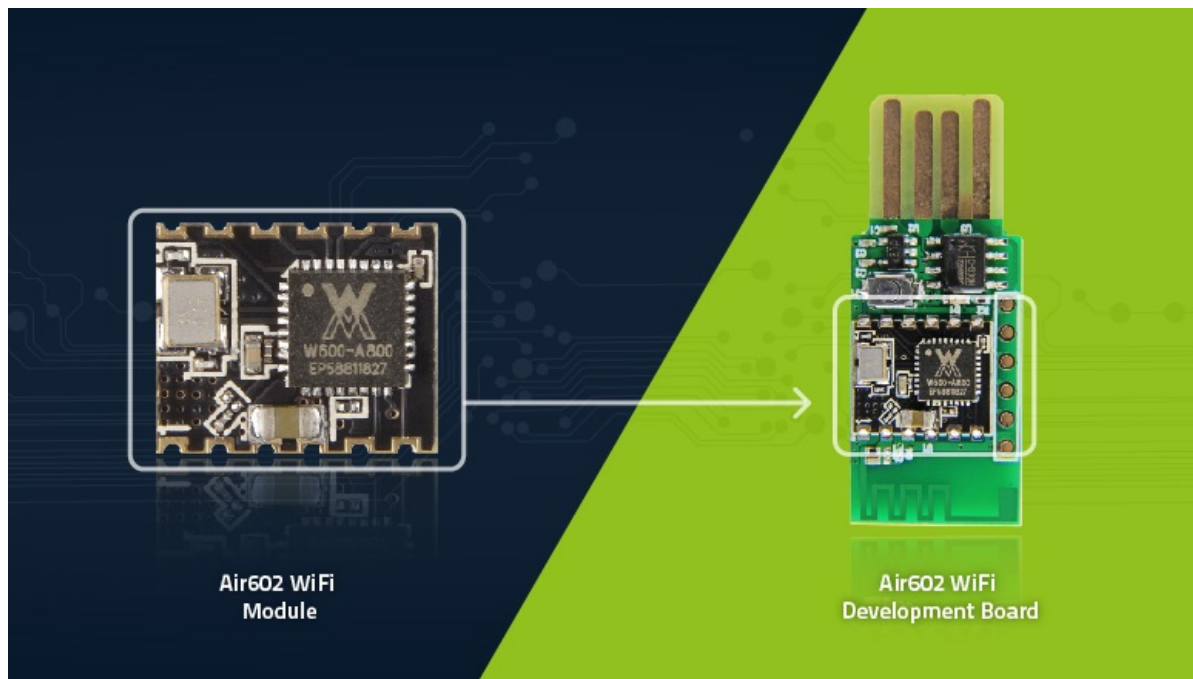


Air602 Firmware Programming Manual



The Air602 module is based on W600 which embedded ARM-Cortex M3, in this tutorial we will show you how to burn the firmware.

Firmware Tool & Image Download

You can download the Firmware Programming Tool here

Firmware Tool [<https://v2.fangcloud.com/share/f348cba5a0e3899fd97c57b9f2>]

We provide the official firmware for you.



Officail Firmware

[https://github.com/SeeedDocument/Air602_WiFi_Module/raw/master/res/Air602_img.zip]

You will find 4 version in this zip package, we recommend you to use

AirM2M_Luat_V0011_W600T_USER

change log

version	Description
AirM2M_Luat_V0008_W600T_USER	Initial
AirM2M_Luat_V0009_W600T_USER	Add mqtt support
AirM2M_Luat_V0010_W600T_USER	Fixed the problem that when the module is set to AP mode and the DHCP function is disabled, the device(stations) still can use DHCP function to get the IP address. At the same time, it also solves the problem that some mobile phones are connected successfully but disconnected immediately.
AirM2M_Luat_V0011_W600T_USER	Optimized the power consumption of the chip, reducing the heat generated during the operation of the chip

You can jump to [Burn the firmware](#) [#Burn the firmware] if you do not want to use SDK.

SDK Download

Also, you can download the SDK and reprogram it yourself.

[AirM2M_W600_SDK](#) [https://github.com/openLuat/Luat_WiFi_WM_W600]

We recommand you to build it with **Keil MDK5**. Please use the Keil to open the **WM_W600.uvprojx**, you can find it in the **XXXXXX\WM_SDK\Tools\Keil\Project**,



XXXXX is the location you unzip the SDK.

This PC > DataBase (D:) > WorkWork > Air602 > TEST > WM_SDK > Tools > Keil > Project >				
Name	Date modified	Type	Size	
objs	11/8/2018 3:50 PM	File folder		
RTE	11/8/2018 3:50 PM	File folder		
makeimg.bat	7/2/2018 6:34 PM	Windows Batch File	1 KB	
startup_venus.lst	11/8/2018 3:50 PM	LST File	43 KB	
WM_W600.map	11/8/2018 3:50 PM	MAP File	145 KB	
WM_W600.uvgui.xuxubin	8/24/2018 8:26 AM	XUXUBIN File	91 KB	
WM_W600.uvopt	8/24/2018 8:10 AM	UVOPT File	57 KB	
WM_W600.uvoptx	11/8/2018 3:49 PM	UVOPTX File	57 KB	
WM_W600.uvproj.saved_uv4	8/24/2018 8:10 AM	SAVED_UV4 File	47 KB	
WM_W600.uvprojx	11/8/2018 3:49 PM	Revision5 Project	48 KB	
WM_W600_Flash.dep	8/20/2018 8:19 AM	DEP File	490 KB	

When build is done, you can find the **.img** file at **XXXXX\WM_SDK\Bin**, also XXXXX is the location you unzip the SDK.

This PC > DataBase (D:) > WorkWork > Air602 > TEST > WM_SDK > Bin				
Name	Date modified	Type	Size	
secboot.img	7/2/2018 6:34 PM	Disc Image File	13 KB	
version.txt	7/2/2018 6:34 PM	Text Document	1 KB	
version_bk.txt	7/2/2018 6:34 PM	Text Document	1 KB	
WM_W600.bin	8/24/2018 8:25 AM	BIN File	302 KB	
WM_W600.FLS	8/24/2018 8:25 AM	FLS File	350 KB	
WM_W600.map	8/24/2018 8:25 AM	MAP File	592 KB	
WM_W600_SEC.img	8/24/2018 8:25 AM	Disc Image File	302 KB	

Now you can burn your own firmware to Air602, then the question is how?

Burn the firmware

Unfortunately, the firmware tool only support chinese language, to solve this problem, we will show you the screenshots step by step.



Step 1. Unzip the Firmware Tool, find and double click the **LuaTool.exe** in the **XXXX/LuaTools 1.5.7**, XXXX is the path you unzip the firmware tool(LuaTools1.5.7).

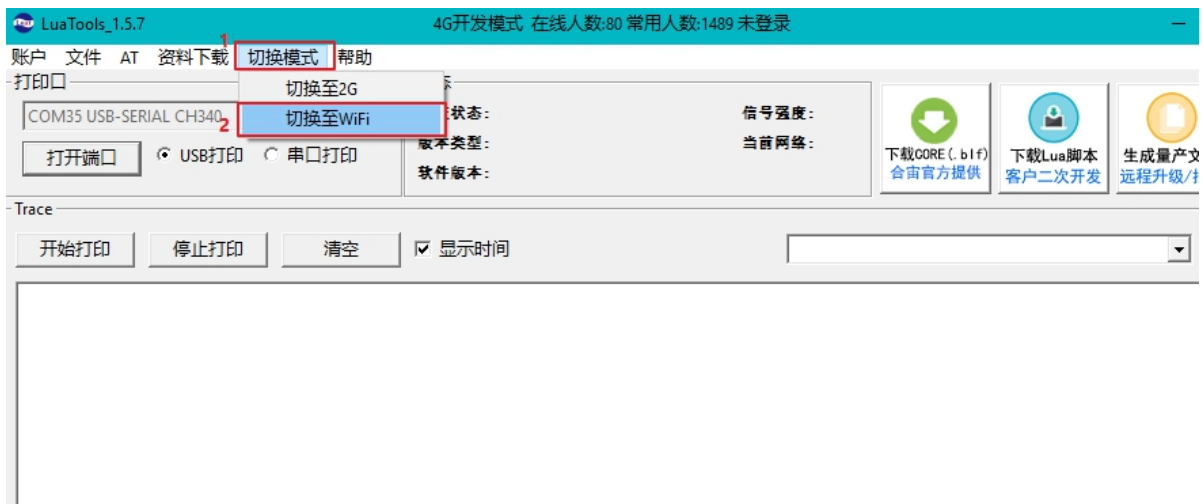
> This PC > DataBase (D:) > Air602 > LuaTools 1.5.7

	Name	Date modified	Type	Size
	4gContrastiveObject	10/15/2018 5:00 PM	File folder	
	8955Lod	10/15/2018 5:00 PM	File folder	
	asr1802	8/13/2018 5:06 PM	File folder	
	ClearScr	6/1/2018 5:54 PM	File folder	
	data	7/29/2018 5:54 PM	File folder	
	image	10/25/2018 5:40 PM	File folder	
	log	10/25/2018 8:00 PM	File folder	
	ramrun	5/17/2018 5:57 PM	File folder	
	script	10/25/2018 5:40 PM	File folder	
	temp	1/24/2018 11:51 A	File folder	
	win_dll	10/15/2018 5:00 PM	File folder	
les	量产文件生成默认文件夹	11/21/2017 8:46 PM	File folder	
	7lзма.exe	7/6/2017 2:29 PM	Application	76 KB
	fcs.dll	8/3/2016 3:37 PM	Application extens	42 KB
	Luat.ico	11/2/2017 5:51 PM	IrfanView ICO File	25 KB
	LuaTools.exe	10/25/2018 8:00 PM	Application	10,566 KB
	release notes.txt	10/25/2018 5:37 PM	Text Document	20 KB

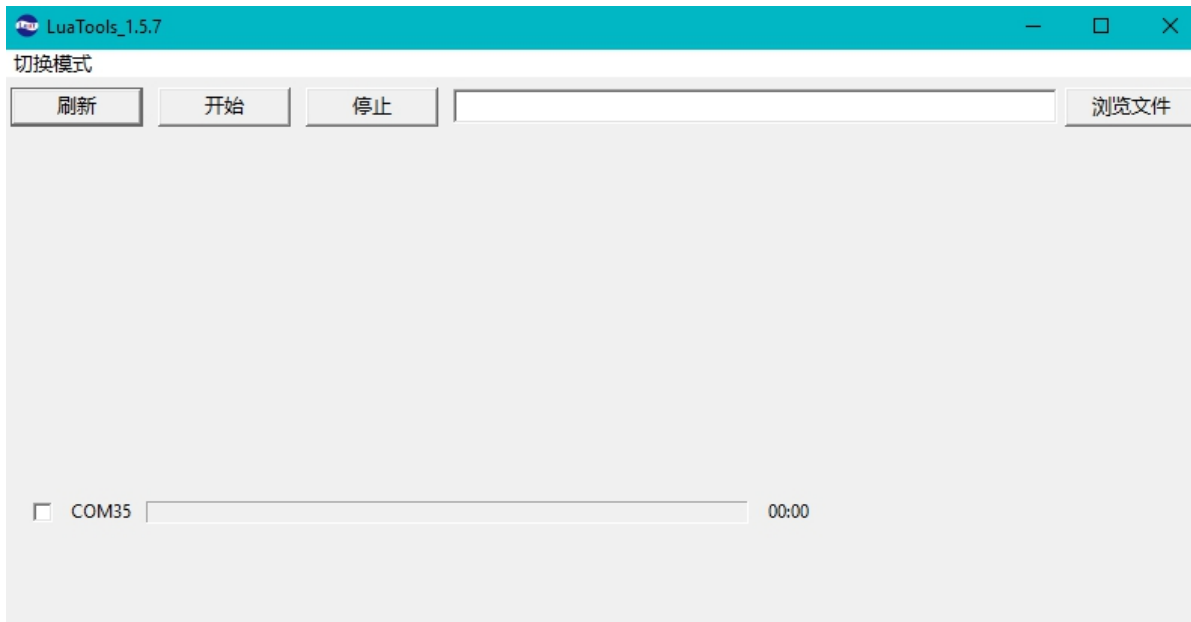
Step 2. When you opened the tool, it may pop-up a window to let you upgrade, you can just click "取消升级" to pass this step.



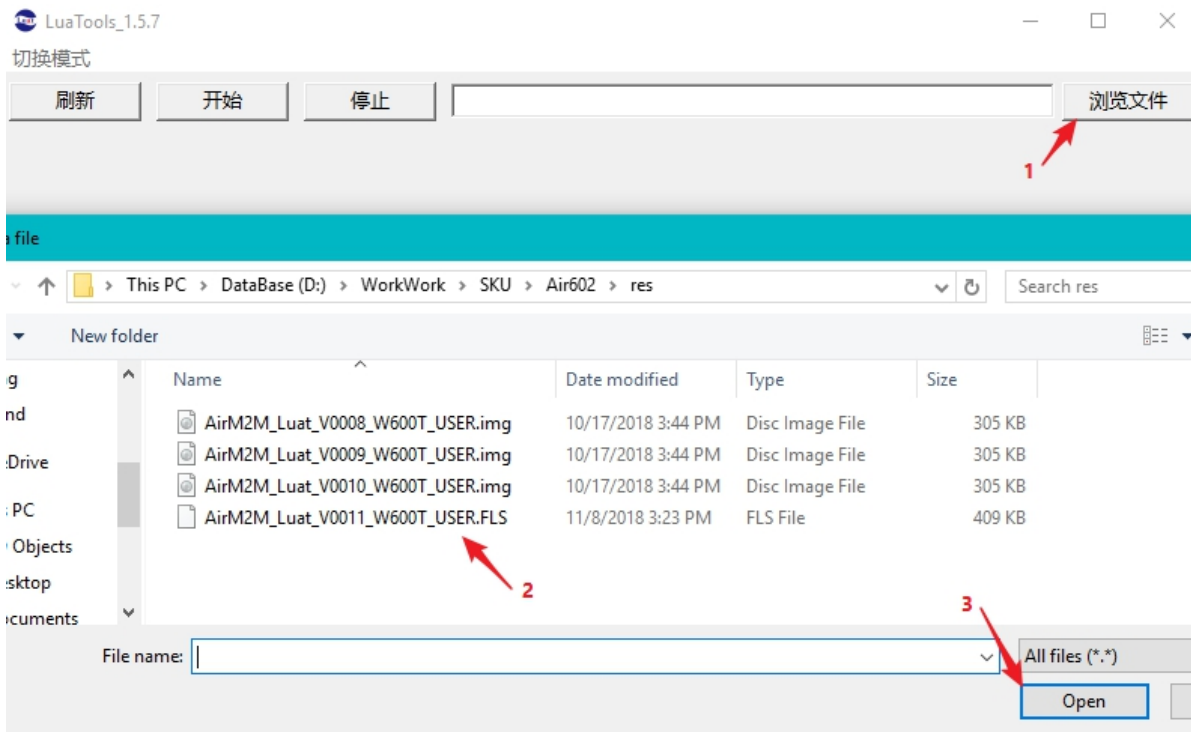
Step 3. Switch to wifi mode. The default mode is Luat for 4G, to burn the Air602 firmware we should click 切换模式→切换至WiFi.



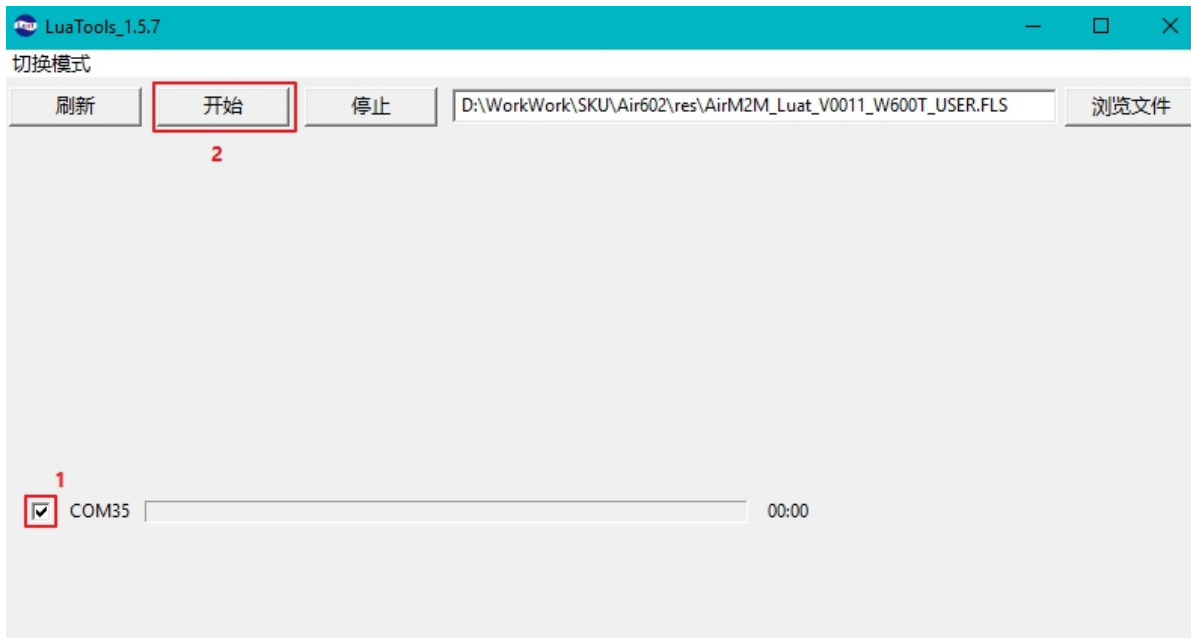
Then the software will restart, and you will see a new window like that:



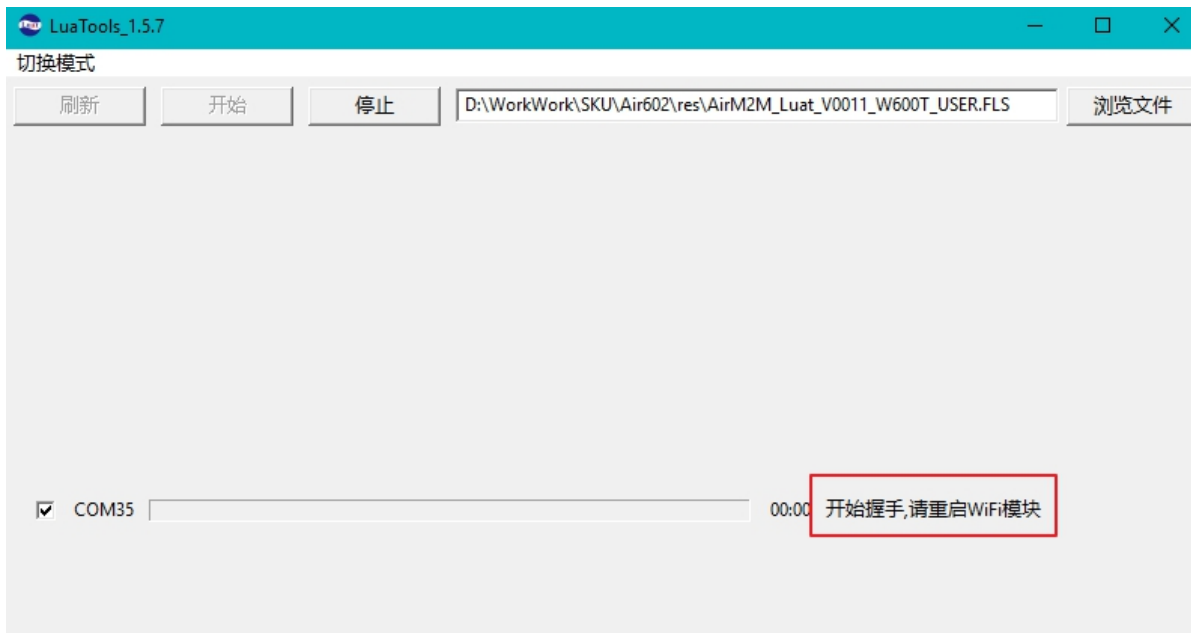
Step 4. Choose the firmware you've just download or build by the SDK. Click 浏览文件, choose the firmware(both *.img* and *.FLS* will work), then click **Open**.



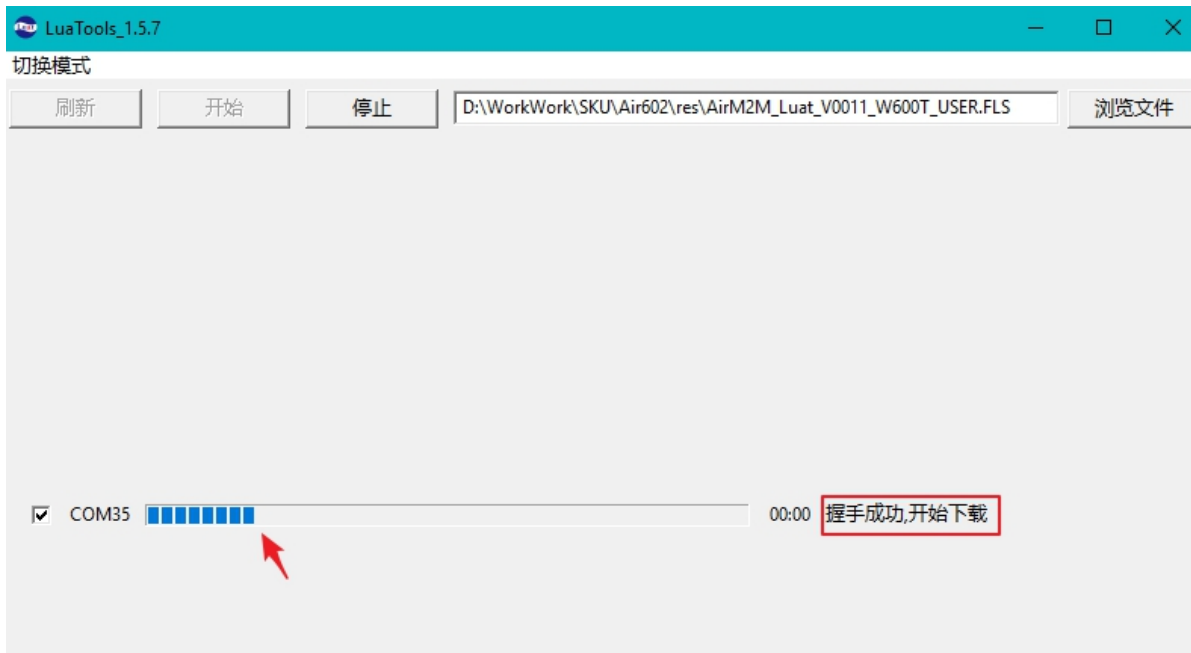
Step 5. Choose the corresponding COM port and start to burn the firmware. Actually the tool will detect the Air602 COM port automatically, you just need to tick the check box, then click 开始 to start programming firmware.



Then you will see a notice 开始握手, 请重启WiFi模块, when this prompt appears, please press the reset button on the Air602 development board in time.



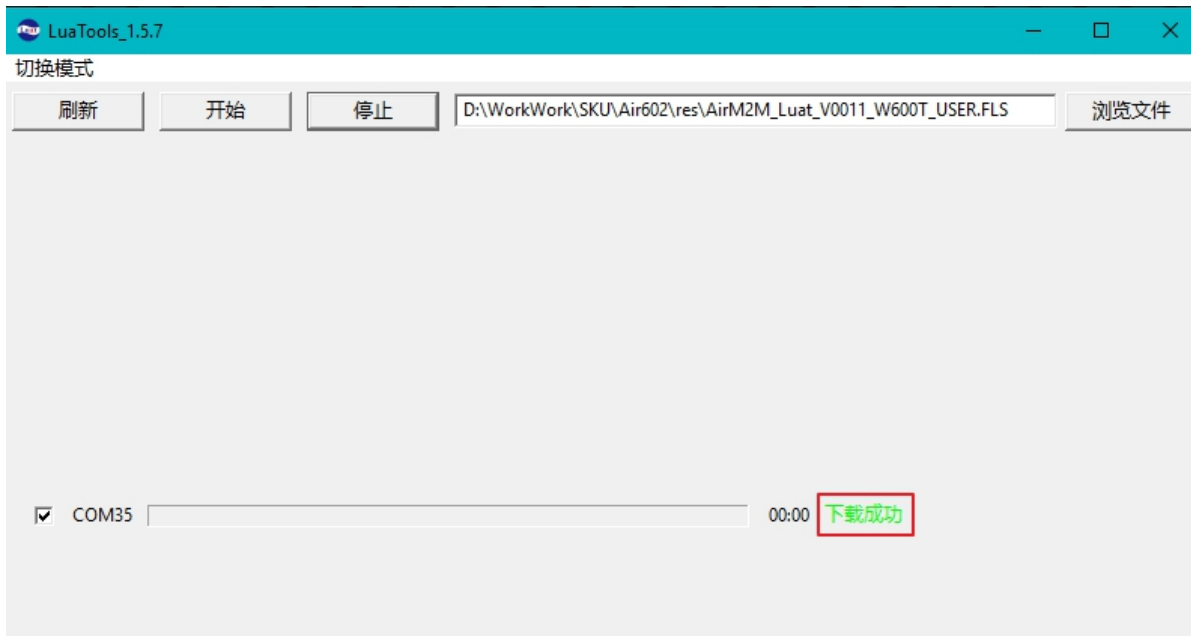
Please be careful when you press the reset button to prevent the USB device false eject. Seconds later it will prompt at the same area 握手成功, 开始下载, which means successful handshake and the programming start. You can also see the progress bar.

**Note**

If it fails, it may show 握手超时, which means handshake timeout, please repeat step 5 several times, it will be OK then.

**Success**

If everything goes well, you will see the following picture, which means you have successfully burned the firmware into the Air602 development board. Enjoy :D



Resource

- **[Zip]** [Firmware Tool](#)
[<https://v2.fangcloud.com/share/f348cba5a0e3899fd97c57b9f2>]
- **[Zip]** [Officail Firmware](#)
[https://github.com/SeeedDocument/Air602_WiFi_Module/raw/master/res/Air602_img.zip]
- **[Github Page]** [AirM2M_W600_SDK](#)
[https://github.com/openLuat/Luat_WiFi_WM_W600]

Tech Support

Please do not hesitate to submit the issue into our [forum](#)

[<https://forum.seeedstudio.com/>]