EMC3080 Firmware Download

1. Module Introduction

The EMC3080 module and EMW3080 package are consistent, allowing for hardware iteration without changing the hardware design.

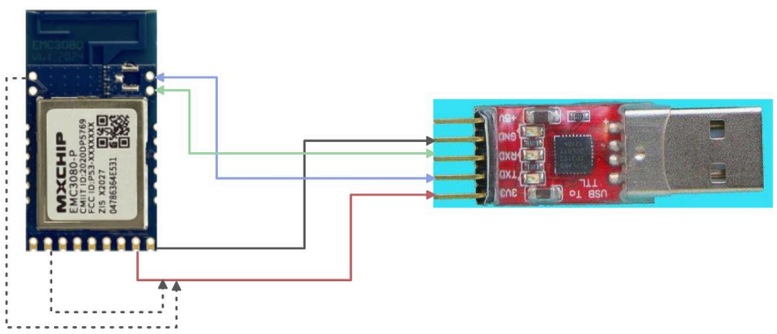
- Log serial port baud rate: 115200bps
- User serial port QC baud rate: 115200bps

2. Download Guide for Image Tool

2.1 Software：Image Tool 1.1.1

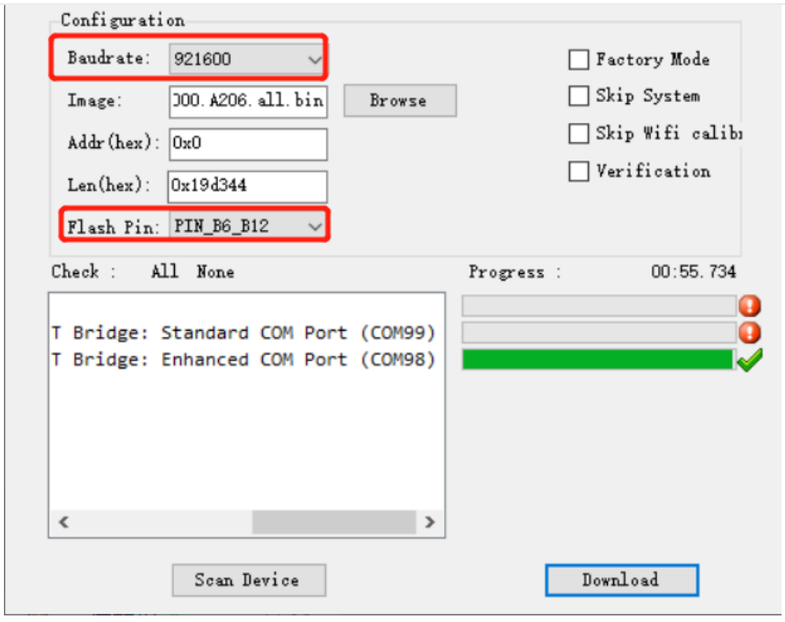
Download Link： MX1300CF-MFG_Tool.zip

2.2 Wiring Diagram



1. Connect the wires according to the above diagram, and the dotted line shows the pins that need to be raised.
2. After the wiring is completed, disconnect the VCC first and then power it on again to trigger the module to enter the burning mode.

2.3 Software Configuration



- Select RTL8710C in Chip Select.
- Baudrate is 921600bps.
- Choose PIN_B6_B12 in Flash_Pin.
- Select the corresponding all. bin firmware through Browse.
- Click download to write firmware file.

3. Download Guide for Jlink

3.1 Compile Command

It needs to be compiled first and then downloaded in two steps:

1. mxos make applicaiton.linkkit_breeze@emc3080 TLS=
2. mxos make application.linkkit_breeze@emc3080 TLS= total download

Reason: The mxos cube is not synchronized during firmware synthesis and download.

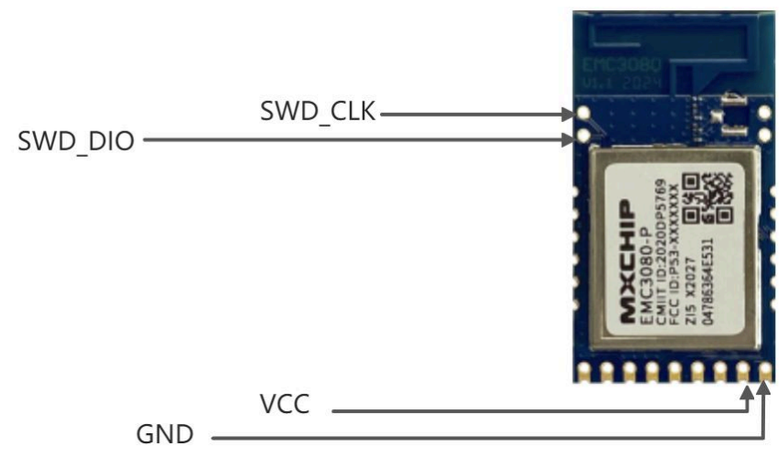
3.2 Download Through mflash

3.2.1 Software Configuration

Refer to: "Common Tools and Documents"

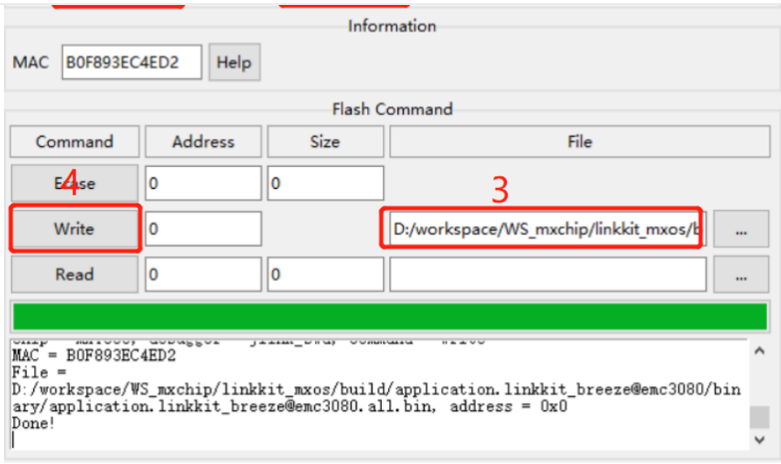
3.2.2 Wiring Diagram

Use the JLink four wire connection method to connect the module and the JLink burner.



3.2.3 Operation Instruction

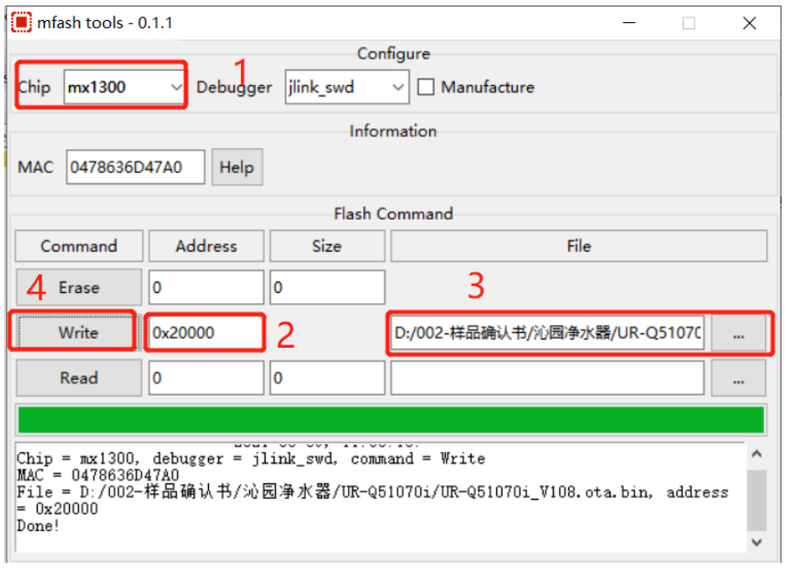
1) Download all.bin



2) Download ota.bin

```
/*
This Table is Generated by MAsciiTable Written by Snow Yang at Tue Sep 17 11:34:27 2019
+----------------+-------------+---------+
| Partition Name | PHY Address |  Size   |
+----------------+-------------+---------+
|   Partition    |    0x00     | 0x4000  |
+----------------+-------------+---------+
|   Bootloader   |    0x4000   | 0x8000  |
+----------------+-------------+---------+
|    KVRO        |    0xC000   | 0x4000  |
+----------------+-------------+---------+
|    KV          |    0x10000  | 0x4000  |
+----------------+-------------+---------+
|    OTA header  |    0x14000  | 0x1000  |
+----------------+-------------+---------+
|    User        |    0x15000  | 0xB000  |
+----------------+-------------+---------+
|    Application |    0x20000  | 0xF0000 |
+----------------+-------------+---------+
|    OTA/ATE     |    0x110000 | 0xF0000 |
+----------------+-------------+---------+
*/
```

Due to the KV partition being before the APP partition, it is possible to avoid erasing information such as triples by directly writing to the ota. bin file.



4. QC Test

4.1 Trigger Mode

- Method 1: Pull PIN19 down, PIN23 down, and restart the module
- Method 2: User serial port, baud rate 115200, continuous input #, restart module

4.2 QC log

```
 = MXCHIP Manufacture Test ====
Serial Number: 1162.JS06.FY05
App CRC: 67A9
Bootloader Version: mx1300-1.0.1
MXOS Version: -dirty
Library Version: mx1300-1.0.1
```

```
MAC: B0-F8-93-EC-4E-D2
Scan AP Success:
  SSID: AosIOT_JS, RSSI: -33
  SSID: Tenda_908020, RSSI: -43
  SSID: Xiaomi_bat111, RSSI: -45
  SSID: mxchip-office, RSSI: -46
  SSID: mxchip-guest, RSSI: -46
  SSID: , RSSI: -47
  SSID: WZH, RSSI: -47
  SSID: snowyang, RSSI: -50
  SSID: mxchip-vpn1, RSSI: -50
  SSID: , RSSI: -50
  SSID: mxchip-guest, RSSI: -51
  SSID: IoT-2.4G, RSSI: -52
  SSID: CMHI-Kktt, RSSI: -53
  SSID: lora_test, RSSI: -53
  SSID: mxchip-office, RSSI: -53
  SSID: ChinaNet-VY3W, RSSI: -55
  SSID: Comfort_test, RSSI: -55
  SSID: MXCHIP-EDU, RSSI: -55
  SSID: , RSSI: -57
  SSID: , RSSI: -57
  SSID: mxchip-office, RSSI: -57
  SSID: AP-079, RSSI: -57
  SSID: AP073, RSSI: -58
  SSID: ChinaNet-rULZ, RSSI: -58
  SSID: mxchip-office, RSSI: -60
  SSID: ChinaNet-fFAG, RSSI: -60
  SSID: mxchip-guest, RSSI: -61
  SSID: mxchip-guest, RSSI: -61
  SSID: MXCHIP_SSDD, RSSI: -61
  SSID: ST3080, RSSI: -61
  SSID: , RSSI: -66
  SSID: mxchip-guest, RSSI: -66
Local Bluetooth Address: B0-F8-93-EC-4E-D3
BLE scan complete
  ADDR: 10:94:c5:0b:ac:07, RSSI: -80
  ADDR: 61:39:dc:e3:54:12, RSSI: -70
  ADDR: 5a:69:1c:5c:77:e0, RSSI: -72
  ADDR: 78:20:8e:fc:8a:8b, RSSI: -84
  ADDR: 04:78:63:d1:e3:33, RSSI: -92
  ADDR: 14:7d:da:b1:e1:e2, RSSI: -84
  ADDR: 09:27:83:fe:8c:ab, RSSI: -90
  ADDR: 0b:42:33:c9:a3:8e, RSSI: -96
  ADDR: 0c:22:11:d1:5a:4e, RSSI: -88
  ADDR: 49:49:12:8f:b3:e8, RSSI: -88
  ADDR: 06:ec:39:c8:1b:85, RSSI: -72
  ADDR: 4b:12:be:28:4c:e5, RSSI: -96
  ADDR: 36:ad:9f:fb:44:d5, RSSI: -94
  ADDR: 41:6f:a2:85:71:9d, RSSI: -82
  ADDR: f8:a7:63:51:bc:98, RSSI: -94
  ADDR: 60:95:3c:99:c5:a3, RSSI: -92
  ADDR: 60:95:3c:99:c5:a3, RSSI: -92
```

5. Update Record

Version	Update	Date
V1.2	Update some description	2022.8.17

Last Updated: 11/29/2023, 1:52:34 PM

← BAT Burning System

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