

密级状态:绝密() 秘密() 内部资料(√) 公开()

文档编号: (芯片型号) - ASR6505(英文、数字)

ASR6505 LinkWan 参数配置说明

文件状态: [√] 正在修改 [] 正式发布	当前版本:	V0.1
	作者:	Ruilin Hao
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翱捷科技（上海）有限公司

ASR Microelectronics Co., Ltd

(版本所有,翻版必究)

版本历史

版本号	修改日期	作 者	修 改 说 明
V0.1	2019.06.06	Ruilin Hao	Initial version

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1 概述

本文档主要为 ASR6505 的开发人员描述如何更改 linkwan 配置参数。

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2 参数配置工具

2.1 工具编译

参数配置工具代码在 Projects\LinkWan\tools\lcfg 目录下，进入该目录，执行 Make 命令进行编译，成功后会生成 lcfg 可执行文件。

2.2 参数配置

在 lcfg 目录下有参数配置文件 config.json，根据实际需要修改文件并保存。

下面是一个 config.json 文件的示例，其中 LWanDevKeys.OTAKeys 部分为三元组信息；LWanDevConfig 中可修改同异频模式，CLASS 类型以及 FreqbandMask 信息；LWanMacConfig 中可修改确认帧类型，应用端口号，自动上报模式以及上报间隔等信息。

```
{
  "LWanDevKeys": {
    "OTAKeys": {
      "DevEui": "d896e00008000002",
      "AppEui": "d896e0e00000709a",
      "AppKey": "ABB1EB0EC8105B9426FBFDB857EC6006"
    }
  },
  "LWanDevConfig": {
    "ULDLMode": "INTER",
    "ClassMode": "CLASS_A",
    "FreqbandMask": "0002"
  },
  "LWanMacConfig": {
    "ConfirmedMsg": "true",
    "Port": "10",
    "ReportMode": "true",
    "ReportInterval": "30"
  }
}
```

2.3 生成配置文件

配置好 config.json 文件后直接执行 lcfg，成功后生成 eeprom.hex 文件。

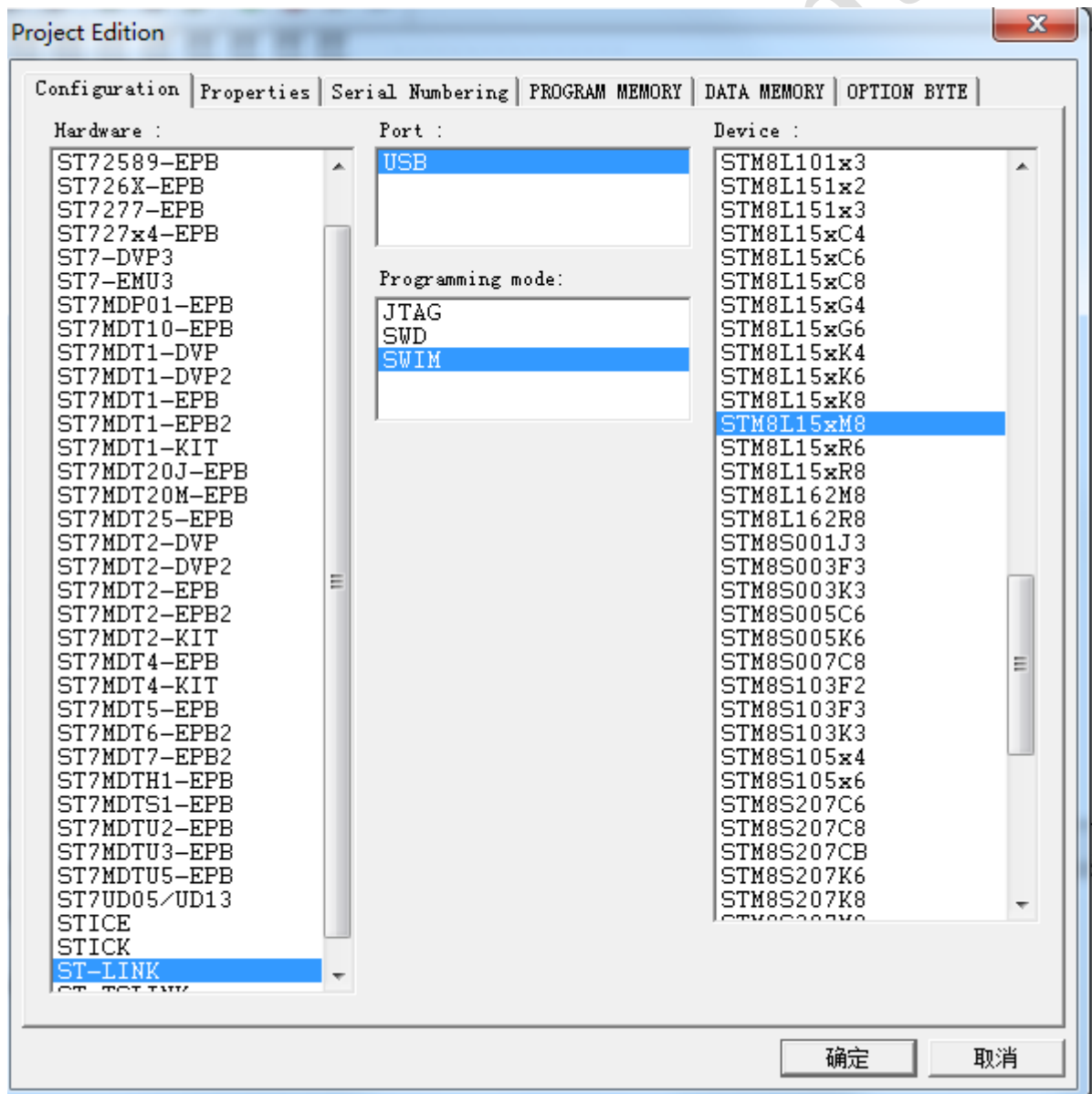
3 配置写入

3.1 STVP 工具

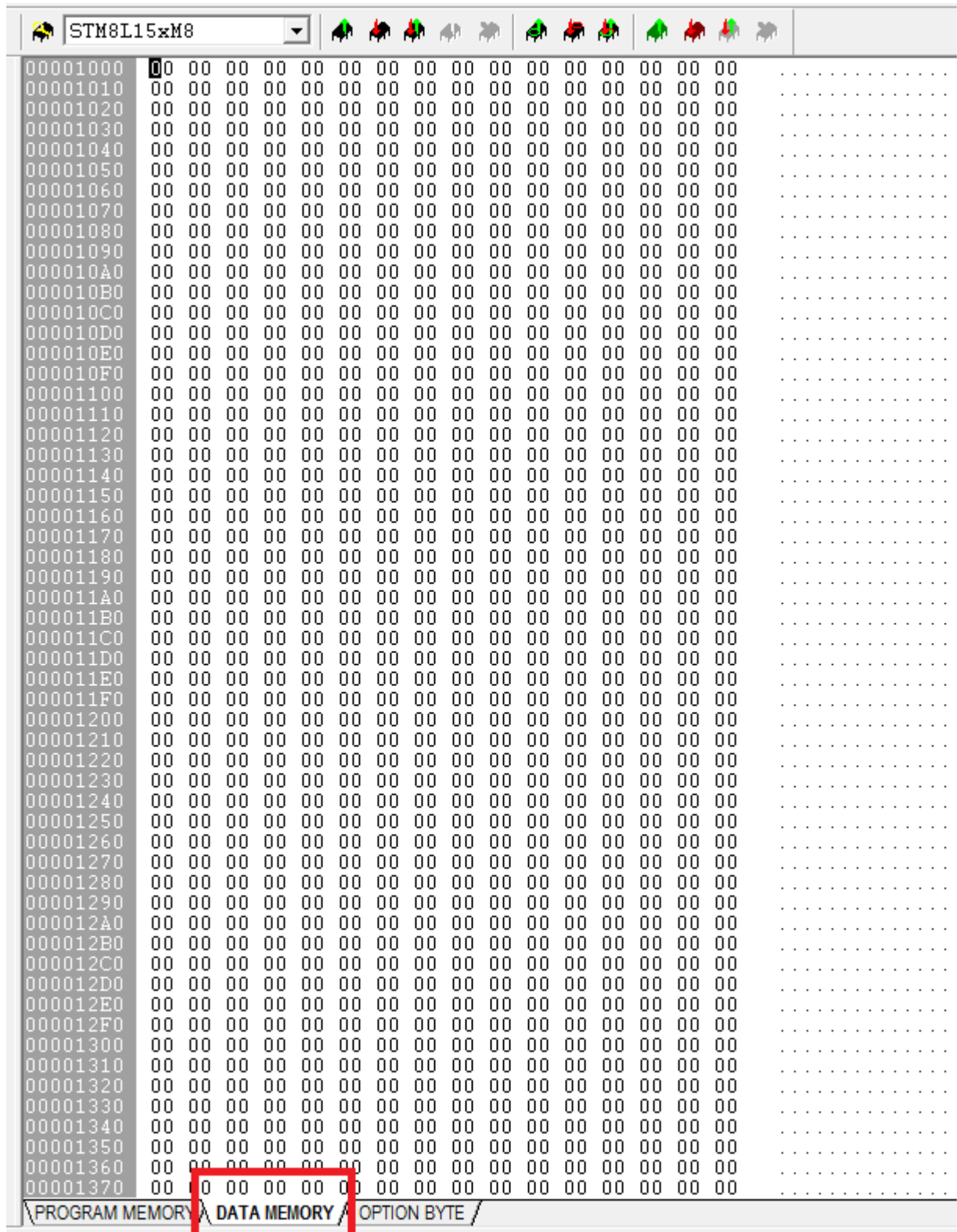
首先需要安装 STVP（ST Visual Programmer）工具，如已安装 STVD 开发环境，则该工具已自动安装，如未安装，请登录 ST 官网，下载 STVD 软件(https://www.st.com/content/st_com/en/products/development-tools/software-development-tools/stm8-software-development-tools/stm8-programmers/stvd-stm8.html)并按照安装向导安装，具体可参考《ASR6505_应用开发环境搭建指南》。

3.2 烧录配置

打开 STVP，新建一个 stm8l 的工程，参数如下图所示。



选择 DATA MEMORY 页面。



点击菜单项“File”->“Open”，选择生成的 eeprom.hex。

STM8L15xM8																	
00001000	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	.....
00001010	AB	AB	BA	BA	D8	96	E0	00	08	00	00	02	D8	96	E0	E0	.....
00001020	00	00	70	9A	AB	B1	EB	0E	C8	10	5B	94	26	FB	FD	B8	..p.....[.&..
00001030	57	EC	60	06	00	7E	6A	E1	D7	2C	78	75	8C	DC	CA	BF	W.~j...xu...
00001040	55	EE	4A	77	8D	16	EF	67	15	B1	D0	EF	A4	63	DF	BE	U.Jw...g.....c.
00001050	3D	11	18	1E	1E	C7	DA	85	00	BF	AB	AB	BA	BA	28	01	=.....(
00001060	08	08	01	01	03	00	02	DD	77	AB	AB	BA	BA	73	07	0A	.....w....s.
00001070	03	00	00	00	00	00	83	00	00	00	00	00	00	00	00	1E	.....
00001080	94	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	.....
00001090	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	.....
000010A0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	.....
000010B0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	.....
000010C0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	.....
000010D0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	.....
000010E0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	.....
000010F0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	.....
00001100	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	.....
00001110	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	.....
00001120	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	.....
00001130	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	.....
00001140	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	.....
00001150	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	.....
00001160	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	.....
00001170	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	.....
00001180	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	.....
00001190	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	.....
000011A0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	.....
000011B0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	.....
000011C0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	.....
000011D0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	.....
000011E0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	.....
000011F0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	.....
00001200	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	.....
00001210	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	.....
00001220	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	.....
00001230	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	.....
00001240	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	.....
00001250	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	.....
00001260	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	.....
00001270	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	.....
00001280	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	.....
00001290	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	.....
000012A0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	.....
000012B0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	.....
000012C0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	.....
000012D0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	.....
000012E0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	.....
000012F0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	.....
00001300	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	.....
00001310	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	.....
00001320	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	.....
00001330	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	.....
00001340	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	.....
00001350	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	.....
00001360	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	.....
00001370	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	.....
PROGRAM MEMORY DATA MEMORY OPTION BYTE																	

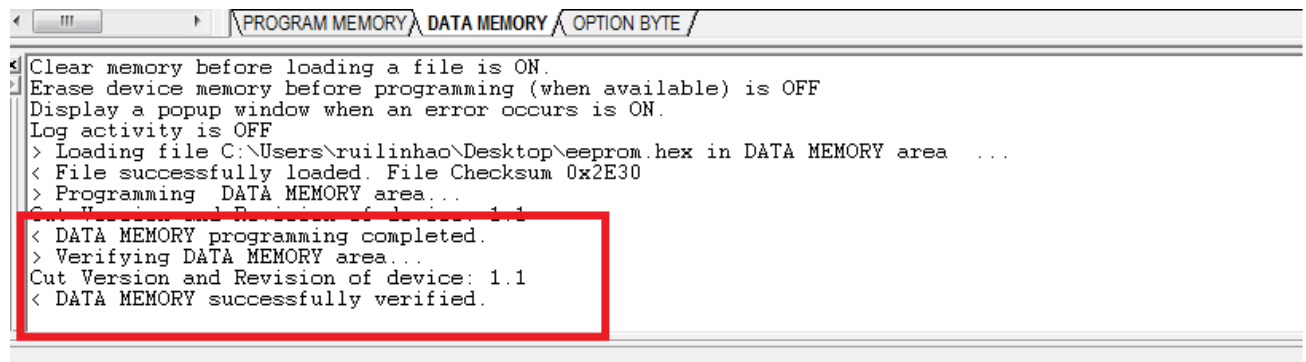
烧录配置数据到 eeprom

STM8L15xM8

00001000	00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00	.....
00001010	AB AB BA BA D8 96 E0 00	08 00 00 02 D8 96 E0 E0	.....
00001020	00 00 70 9A AB B1 EB 0E	C8 10 5B 94 26 FB FD B8	..p.....[.&...
00001030	57 EC 60 06 00 7E 6A E1	D7 2C 78 75 8C DC CA BF	W...~j...xu...
00001040	55 EE 4A 77 8D 16 EF 67	15 B1 D0 EF A4 63 DF BE	U.Jw...g.....c..
00001050	3D 11 18 1E 1E C7 DA 85	00 BF AB AB BA BA 28 01	=.....(.
00001060	08 08 01 01 03 00 02 DD	77 AB AB BA BA 73 07 0A	.....w....s..
00001070	03 00 00 00 00 00 83 00	00 00 00 00 00 00 00 00	.....
00001080	94 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00	.....
00001090	00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00	.....
000010A0	00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00	.....
000010B0	00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00	.....
000010C0	00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00	.....
000010D0	00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00	.....
000010E0	00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00	.....
000010F0	00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00	.....
00001100	00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00	.....
00001110	00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00	.....
00001120	00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00	.....
00001130	00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00	.....
00001140	00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00	.....
00001150	00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00	.....
00001160	00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00	.....
00001170	00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00	.....
00001180	00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00	.....
00001190	00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00	.....
000011A0	00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00	.....
000011B0	00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00	.....
000011C0	00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00	.....
000011D0	00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00	.....
000011E0	00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00	.....
000011F0	00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00	.....
00001200	00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00	.....
00001210	00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00	.....
00001220	00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00	.....
00001230	00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00	.....
00001240	00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00	.....
00001250	00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00	.....
00001260	00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00	.....
00001270	00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00	.....
00001280	00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00	.....
00001290	00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00	.....
000012A0	00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00	.....
000012B0	00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00	.....
000012C0	00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00	.....
000012D0	00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00	.....
000012E0	00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00	.....
000012F0	00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00	.....
00001300	00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00	.....
00001310	00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00	.....
00001320	00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00	.....
00001330	00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00	.....
00001340	00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00	.....
00001350	00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00	.....
00001360	00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00	.....
00001370	00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00	.....

PROGRAM MEMORY / DATA MEMORY / OPTION BYTE

烧录成功后提示。



```
PROGRAM MEMORY DATA MEMORY OPTION BYTE /
Clear memory before loading a file is ON.
Erase device memory before programming (when available) is OFF
Display a popup window when an error occurs is ON.
Log activity is OFF
> Loading file C:\Users\ruilinhao\Desktop\eeeprom.hex in DATA MEMORY area ...
< File successfully loaded. File Checksum 0x2E30
> Programming DATA MEMORY area...
< DATA MEMORY programming completed.
> Verifying DATA MEMORY area...
Cut Version and Revision of device: 1.1
< DATA MEMORY successfully verified.
```

重新上电，串口会打印新的配置信息。

```
[17:02:00.148]收←◆[86401136]OTAA
[86401144]DevEui= D8-96-E0-00-08-00-00-02
[86401152]AppEui= D8-96-E0-00-00-00-70-9A
[86401160]AppKey= AB-B1-EB-0E-C8-10-5B-94-26-FB-FD-B8-57-EC-60-06
[86401168]class type A
[86401168]freq mode inter
[86401168]scan chn mask 0x0002
```