

# ST17H66T

烧录说明

# 1、烧录前准备

- 烧录PC软件： LeKit\_v2.5.3、LeWrite\_2.6.d5及以上版本
- 烧录目标板： 空片ST17H66T及最小系统（16MHz/10ppm晶振&电源）
- 在线烧录工具： 使用方法参考“[ST17H65/66在线下载烧录器烧写方法说明V1.2](#)”， ST17H66T烧录引脚有调整，使用第3&4脚烧录
- 烧录程序： 工程编译生成的.ihex文件， LeKit生成的.iheo文件。

## 2、SRAM调试烧录步骤

- 接线及进入烧录模式参考烧录文档
- 在线烧录工具按下复位开关，进入cmd烧录模式
- 在HEX Merge栏下APP导入.ihex文件，点击HexF生成hex文件
- 切换到HEX栏，导入刚刚生成的.hex文件，修改RUN\_ADDR地址为1FFF1000，点击uartRun后，程序会烧录进SRAM运行。
- 注：SRAM烧录是将程序直接下载到SRAM运行，掉电后SRAM数据丢失。

LeKit

File Edit Settings Help

Flash\_Writer RF\_CMD RF\_QuickSet Multi\_FW

Config  Timeout  Save Clear ☐ OTP

fct\_Mode Erase Size  Address  Erase Write ☐ LW

IMG HEX HEX Merge

BOOT  No OTA ☐ Hex16 HexF

APP  ☐ SEC ☐ Auth  Encrypt

FLA\_ADDR

FLA\_ADDR

FLA\_ADDR

FLA\_ADDR

FLA\_ADDR

FLA\_ADDR

ChipID/IV

PID[16]  LID[10]  TID[14]  CheckID

MID[16]  SID[08]  IV[13]  WriteID

MAC[6]  KEY1[32]  KEY2[32]  WriteMAC

Single Batch

	TYPE	PATH	SIZE	ADDRESS	VALUE
1	MAC				21:35:45:64:56:45
2					
3					
4					
5					

Command:  ☐ HEX Send ClearBuf

☒ UART Setting

Port  Baud Rate  Stop Bits  Parity

☐ SWU Disconnect AutoCheck Update

Log

```
Current baudrate: 9600
Current stopBits: 1
Current parity: No
Serial opened!!
*****
UART TX ASCII: UXTDWU
UART TX ASCII: UXTDWU
UART TX ASCII: UXTDWU
UART TX ASCII: UXTDWU
UART TX ASCII: UXTDWU
UART TX ASCII: UXTDWU
UART TX ASCII: UXTDWU
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UART TX ASCII: UXTDWU
UART TX ASCII: UXTDWU
UART TX ASCII: UXTDWU
UART TX ASCII: UXTDWU
UART TX ASCII: UXTDWU
UART RX: cmd>>:
Current port: COM21
Current baudrate: 115200
Current stopBits: 1
Current parity: No
Serial opened!!
*****
```

☐ TimeTic Mode  Save Clear

进入cmd烧录模式

UART INFO: Port: COM21, Baudrate: 115200, StopBits: 1, Parity: No

V2.5.3

LeKit

File Edit Settings Help

Flash\_Writer RF\_CMD RF\_QuickSet Multi\_FW

Config Timeout 4000 Save Clear ☐ OTP

fct\_Mode Erase Size 512k Address Erase Write ☐ LW

IMG HEX HEX Merge

1 导入ihex文件

2 点击生成hex文件

BOOT APP -- -- -- -- -- --

n\_T/ck802\_proj/Obj/RGBLight\_Common\_T.ihex

No OTA Hex16 HexF

SEC Auth -- Encrypt

FLA\_ADDR

FLA\_ADDR

FLA\_ADDR

FLA\_ADDR

FLA\_ADDR

FLA\_ADDR

ChipID/IV

PID[16] LID[10] TID[14] CheckID

MID[16] SID[08] IV[13] WriteID

MAC[6] KEY1[32] KEY2[32] WriteMAC

Single Batch

	TYPE	PATH	SIZE	ADDRESS	VALUE
1	MAC				21:35:45:64:56:45
2					
3					
4					
5					

Command: ☐ HEX Send ClearBuf

☒ UART Setting

Port COM21 Baud Rate 115200 Stop Bits 1 Parity No

☐ SWU Disconnect AutoCheck Update

Log

```
UART TX ASCII: UXTDWU
UART TX ASCII: UXTDWU
UART TX ASCII: UXTDWU
UART TX ASCII: UXTDWU
UART TX ASCII: UXTDWU
UART TX ASCII: UXTDWU
UART TX ASCII: UXTDWU
UART TX ASCII: UXTDWU
UART TX ASCII: UXTDWU
UART TX ASCII: UXTDWU
UART TX ASCII: UXTDWU
UART RX: cmd>>:
Current port: COM21
Current baudrate: 115200
Current stopBits: 1
Current parity: No
Serial opened!!
*****
Load AppHex Done[-NO-ENC-]!
IV BLOCK GEN [-NO-ENC-]
[hexPack]: 1FFF0000 200
[hexPack]: 1FFF1000 2d6c
[App HexPack Size]: 2
>> BOOT=====0x11002000-----0x11002030=====
>> APP=====0x11005000-----0x11007f74=====

The App Hex file Last modified: 2022-08-06 11:08:13
[HEXF Generation] Success: G:/ST17H65T_Code/
ST17H6xT_SDK_V5.1.0_RGBLight_release/example/ble_peripheral/
RGBLight_Common_T/ck802_proj/Obj/RGBLight_Common_T.hexf !!!
[HEXF Generation]::DONE !!!
```

3 显示hex文件生成成功

☐ TimeTic Mode ASCII Save Clear

UART INFO: Port: COM21, Baudrate: 115200, StopBits: 1, Parity: No

V2.5.3

LeKit

File Edit Settings Help

Flash\_Writer RF\_CMD RF\_QuickSet Multi\_FW

Config  Timeout  Save Clear ☐ OTP

fcT\_Mode Erase Size  Address  Erase Write ☐ LW

IMG HEX ☒ HEX Merge ☐ 1 导入hex文件 2 修改为1FFF1000

M0  Merge FLA\_ADDR  RUN\_ADDR  UartRun

The hex file has been loaded. Last modified: 2022-08-06 13:56:39

NO.1 Size: 02D6C, Flash Address: 11005000, Run Address: 1FFF1000  
NO.2 Size: 00200, Flash Address: 11008000, Run Address: 1FFF0000

3 点击开始

Single Batch

	TYPE	PATH	SIZE	ADDRESS	VALUE
1	MAC				21:35:45:64:56:45
2					
3					
4					
5					

Command:  ☐ HEX Send ClearBuf

☒ UART Setting

Port  Baud Rate  Stop Bits  Parity

☐ SWU Disconnect AutoCheck Update

Log

```
Current parity: No
Serial opened!!
*****
Load AppHEX Done[-NO-ENC-]!
IV BLOCK GEN [-NO-ENC-]
[hexPack]: 1FFF0000 200
[hexPack]: 1FFF1000 2d6c
[App HexPack Size]: 2
>> BOOT=====0x11002000-----0x11002030=====
>> APP=====0x11005000-----0x11007f74=====

The App Hex file Last modified: 2022-08-06 11:08:13

[HEXF Generation] Success: G:/ST17H65T_Code/
ST17H6xT_SDK_V5.1.0_RGBLight_release/example/ble_peripheral/
RGBLight_Common_T/ck802_proj/Obj/RGBLight_Common_T.hexf !!!
[HEXF Generation]::DONE !!!
Send uartrun successfully!
Receive #OK!
Send uartbin successfully!
UART RX ASCII: by hex mode:
Receive image request!
Send image successful! Waiting to receive checksum...
Send checksum successfully!
UART RX ASCII: checksum is: 0x000e8c12#OK>>:
Receive #OK!
Send uartbin successfully!
UART RX ASCII: by hex mode:
Receive image request!
Send image successful! Waiting to receive checksum...
Send checksum successfully!
UART RX ASCII: checksum is: 0x00000000#OK>>: 4 烧录完成
Receive #OK!
```

☐ TimeTic Mode  Save Clear

UART INFO: Port: COM21, Baudrate: 115200, StopBits: 1, Parity: No

V2.5.3



### 3、OTP烧录步骤

- 接线及进入烧录模式参考烧录文档
- 在线烧录工具按下复位开关，进入cmd烧录模式
- 在HEX Merge栏下APP导入.ihex文件
- 勾选OTP烧录模式
- 配置MAC地址
- 点击write进行OTP烧录
- 注：OTP烧录是将程序烧录在OTP区域，芯片只能烧录一次。





LeKit

File Edit Settings Help

Flash\_Writer RF\_CMD RF\_QuickSet Multi\_FW

Config

Timeout4000

Save

Clear

☒ OTP

fct\_Mode

Erase Size512k

Address

Erase

Write

☒ LW

2 勾选OTP和LW两个勾选框

IMG HEX HEX Merge

BOOT

APP60\_220922\_release/RGBLight\_Common\_T.ihex

No OTA

Hex16

HexF

1 导入.ihex文件

☐ SEC ☐ Auth

Encrypt

FLA\_ADDR

FLA\_ADDR

FLA\_ADDR

FLA\_ADDR

FLA\_ADDR

FLA\_ADDR

ChipID/IV

PID[16]

LID[10]

TID[14]

CheckID

MID[16]

SID[08]

IV[13]

WriteID

MAC[6]

KEY1[32]

KEY2[32]

WriteMAC

Single Batch

	TYPE	PATH	SIZE	ADDRESS
1	MAC			12:11:23:15:45:64
2				
3				
4				
5				

3 配置MAC地址

Command:

☐ HEX

Send

ClearBuf

☒ UART Setting

PortCOM16 Baud Rate115200 Stop Bits1 ParityNo

☐ SWU Disconnect AutoCheck Update

Log

```
Receive image request!
Send image successful! Waiting to receive checksum...
Send checksum successfully!
UART RX ASCII: checksum is: 0x00000000#OK>>:
Receive #OK!
Serial port COM16 closed!!
*****
Current port: COM16
Current baudrate: 9600
Current stopBits: 1
Current parity: No
Serial opened!!
*****
UART TX ASCII: UXTDWU
UART TX ASCII: UXTDWU
UART TX ASCII: UXTDWU
UART TX ASCII: UXTDWU
UART TX ASCII: UXTDWU
UART TX ASCII: UXTDWU
UART TX ASCII: UXTDWU
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UART TX ASCII: UXTDWU
UART TX ASCII: UXTDWU
UART TX ASCII: UXTDWU
UART TX ASCII: UXTDWU
UART TX ASCII: UXTDWU
UART TX ASCII: UXTDWU
UART RX: cmd>>:
Current port: COM16
Current baudrate: 115200
Current stopBits: 1
Current parity: No
Serial opened!!
*****
```

☐ TimeTic ModeASCII Save Clear

UART INFO: Port: COM16, Baudrate: 115200, StopBits: 1, Parity: No

V2.5.3

LeKit

File Edit Settings Help

Flash\_Writer

RF\_CMD

RF\_QuickSet

Multi\_FW

Config

Timeout

4000

Save

Clear

☒ OTP

fct\_Mode

Erase Size

512k

Address

Erase

Write

☒ LW

IMG

HEX

HEX Merge

BOOT

No OTA

Hex16

HexF

APP

60\_220922\_release/RGBLight\_Common\_T.ihex

☐ SEC

☐ Auth

--

Encrypt

--

FLA\_ADDR

--

FLA\_ADDR

--

FLA\_ADDR

--

FLA\_ADDR

--

FLA\_ADDR

ChipID/IV

PID[16]

LID[10]

TID[14]

CheckID

MID[16]

SID[08]

IV[13]

WriteID

MAC[6]

KEY1[32]

KEY2[32]

WriteMAC

Single

Batch

	TYPE	PATH	SIZE	ADDRESS	VALUE
1	MAC				12:11:23:15:45:64
2					
3					
4					
5					

Command:

☐ HEX

Send

ClearBuf

☒ UART Setting

Port

COM16

Baud Rate

115200

Stop Bits

1

Parity

No

☐ SWU

Disconnect

AutoCheck

Update

Log

UART RX ASCII: checksum is: 0x0002d762#OK>>:  
Receive #OK!  
Send cpbin successfully!  
UART RX ASCII: by hex mode:  
Receive image request!  
Send image successful! Waiting to receive checksum...  
Send checksum successfully!  
UART RX ASCII: checksum is: 0x0002bf76#OK>>:  
Receive #OK!  
Send cpbin successfully!  
UART RX ASCII: by hex mode:  
Receive image request!  
Send image successful! Waiting to receive checksum...  
Send checksum successfully!  
UART RX ASCII: checksum is: 0x0002c322#OK>>:  
Receive #OK!  
Send cpbin successfully!  
UART RX ASCII: by hex mode:  
Receive image request!  
Send image successful! Waiting to receive checksum...  
Send checksum successfully!  
UART RX ASCII: checksum is: 0x0002cc74#OK>>:  
Receive #OK!  
Send cpbin successfully!  
UART RX ASCII: by hex mode:  
Receive image request!  
Send image successful! Waiting to receive checksum...  
Send checksum successfully!  
UART RX ASCII: checksum is: 0x00018f0c#OK>>:  
Receive #OK!  
Write images successfully!  
write address: 0x1fff80c0, value: 0x64451523  
write address: 0x1fff80c4, value: 0x00001112  
Write registers successfully!

☐ TimeTic

Mode

ASCII

Save

Clear

1 点击write开始烧录

2 烧录成功, 按下复位按键即可

UART INFO: Port: COM16, Baudrate: 115200, StopBits: 1, Parity: No

V2.5.3

## 4、离线量产烧录步骤

- 使用USB线连接PC口与烧录器
- 打开LeWrite.exe软件（2.6.d5以上版本）
- 在Application file栏导入.hexo文件
- 在Dwc Loop Sel下拉栏选择UXTDWU模式，勾选Bin Split勾选框
- 配置MAC地址
- 点击Download setting，将程序下载到烧录工具

# EASY Mx

0101010101

## Device Setting

USB info ▼

## Channel Enable

- ☐ Channel 1  
☐ Channel 2  
☐ Channel 3  
☐ Channel 4

Beep Control ▼LanguageSel 中文 ▼FCT Mode EN Close ▼ADC Check Sel Open ▼Current BT MAC Total OK Count Software writer flashID 

Update

## Application file

☐ F:\DevelopmentProjects\ST17H6x\_Project Open Checksum B1040260 WAddr 2850  
55025a79c45d3e869873de450ddff5bd86238a8ea4fc6f942d1799a5774d69c2 ShaAddr

## External file

☐  Open Checksum  Address 0

## Configuration file

☐  Open Checksum  EFUSE  Open

## MAC address

☒ Write MAC address when program

Byte 0

Start A3 54 00 54 00 00

Stop FF 00 00 00 00 00

Step 1 ▼ Increase Seg Byte 0 ▼

Mac address position:0x 4000

## Action

☐ Erase ☒ Erase and program ☐ Erase program and calibrate ☐ Erase,program and test ☐ Calibrate

Download setting

Import setting

Export setting

Information Clear

1 导入.hexo烧录文件

4 配置MAC地址

2 选择模式为UXTDWU

3 勾选Bin Split

5 点击下载到烧录器

# 注意事项

- 程序大小不能超过16K，否则无法正常运行及烧录；
- 如需调试打印，注释其他无关LOG信息以节省空间；