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# 使用流程

## 调试GAMMA流程

1. 上电关闭DDC/CI

关闭方法：无输入信号情况下按K2键（方向键）进入DDC开关快捷菜单选择

1. 接入输入源，使用DLL中debug模式中的函数调试gamma值
2. 获得有效且需要的gamma表后，开启DDC/CI
3. 输入源切换并使用VGA
4. 使用DLL中DDC模式下的函数将gamma表存入flash中

## 调试背光流程

1. 开启DDC/CI

无输入信号情况下按K2键（方向键）进入DDC开关快捷菜单选择

1. 输入源切换并使用VGA
2. 在DDC模式下，使用DLL中的函数来调试各功能
3. 应用**DDCCI\_GetBacklight**函数，可先读取当前亮度传感器值和屏幕PWM值；
4. 调节PWM值，应用**DDCCI\_UseBacklight**函数，应用一个设定的PWM值来调节背光；
5. 达到所要求的亮度要求后，可以刷新重新获取亮度传感器值和屏幕PWM值，然后把这一组值存入对应的亮度列表的Flash中，写入Flash前需要先擦除；
6. 写入后可以通过读取Flash，看数据是否写入Flash成功；
7. 通过打开关闭ABA功能，可以观察调试背光恒定功能的效果。

# DDC写Gamma范例

本例使用平台为QT5.3。

## 加载DLL函数

typedef bool (\*FUN\_RTDINIT)(void);

typedef void (\*FUN\_DDCCI\_ERASERGAMMA)(BYTE);

typedef bool (\*FUN\_DDCCI\_WRITEGAMMA)(BYTE\*,BYTE);

FUN\_RTDINIT Rtd2785Init = NULL;

FUN\_DDCCI\_ERASERGAMMA DDCCI\_EraseGamma = NULL;

FUN\_DDCCI\_WRITEGAMMA DDCCI\_WriteGamma = NULL;

QLibrary lib("rtddll.dll");

if(lib.load())

{

Rtd2785Init = (FUN\_RTDINIT)lib.resolve("RTD2758Init");

DDCCI\_EraseGamma = (FUN\_DDCCI\_ERASERGAMMA)lib.resolve("DDCCI\_EraseGamma");

DDCCI\_WriteGamma = (FUN\_DDCCI\_WRITEGAMMA)lib.resolve("DDCCI\_WriteGamma");

}

## 调用初始化函数

**Rtd2785Init()**

返回 true 初始化成功

注意：暂时不支持热插拔，每次插拔数据线需要重新初始化

## 擦除Flash中指定Gamma表

在每次写操作前需要先做擦除操作，擦除完毕后flash中数值均为0xFF。



GammaID 0~7 分别对应一共八张表

## 写Gamma表格



GammaID 0~7分别对应一共八张表

Gammabuffer是数组指针

数组的数据格式：

Gammabuffer是一个存放伽马表数值数组的指针，指向的数组大小6156字节

Gamma表格分为RGB三块，每块有1024阶，每阶2个字节 0x0000~0x3FFF

RGB数据块的开头和结尾，加入1阶作为过度

(1024+2)\*2\*3 = 6156

Gamma例表见[附录一。](#_附录一：)

# DDC读写背光调节数据范例

本例子使用平台为Qt5.8。

## 加载DLL函数

typedef bool (\*FUN\_RTDINIT)(void);

typedef void (\*FUN\_DDCCI\_ABA\_ENABLE)(bool);

typedef void (\*FUN\_DDCCI\_ERASEBACKLIGHT)(BYTE);

typedef bool (\*FUN\_DDCCI\_WRITEBACKLIGHT)(BYTE,WORD,WORD);

typedef bool (\*FUN\_DDCCI\_READBACKLIGHT)(BYTE,BYTE\*);

typedef bool (\*FUN\_DDCCI\_GETBACKLIGHT)(BYTE\*);

typedef void (\*FUN\_DDCCI\_USEBACKLIGHT)(WORD,WORD);

FUN\_RTDINIT Rtd2785Init = NULL;

FUN\_DDCCI\_ABA\_ENABLE DDCCI\_ABA\_ENABLE = NULL;

FUN\_DDCCI\_ERASEBACKLIGHT DDCCI\_EraseBacklight = NULL;

FUN\_DDCCI\_WRITEBACKLIGHT DDCCI\_WriteBacklight = NULL;

FUN\_DDCCI\_READBACKLIGHT DDCCI\_ReadBacklight = NULL;

FUN\_DDCCI\_GETBACKLIGHT DDCCI\_GetBacklight = NULL;

FUN\_DDCCI\_USEBACKLIGHT DDCCI\_UseBacklight = NULL;

QLibrary lib("rtddll.dll");

if(lib.load())

{

Rtd2785Init = (FUN\_RTDINIT)lib.resolve("RTD2758Init");

DDCCI\_ABA\_ENABLE = (FUN\_DDCCI\_ABA\_ENABLE)lib.resolve("DDCCI\_ABA\_Enable");

DDCCI\_EraseBacklight = (FUN\_DDCCI\_ERASEBACKLIGHT)lib.resolve("DDCCI\_EraseBacklight");

DDCCI\_WriteBacklight = (FUN\_DDCCI\_WRITEBACKLIGHT)lib.resolve("DDCCI\_WriteBacklight");

DDCCI\_ReadBacklight = (FUN\_DDCCI\_READBACKLIGHT)lib.resolve("DDCCI\_ReadBacklight");

DDCCI\_GetBacklight = (FUN\_DDCCI\_GETBACKLIGHT)lib.resolve("DDCCI\_GetBacklight");

DDCCI\_UseBacklight = (FUN\_DDCCI\_USEBACKLIGHT)lib.resolve("DDCCI\_UseBacklight");

}

## 调用初始化函数

**Rtd2785Init()**

返回 true 初始化成功

注意：暂时不支持热插拔，每次插拔数据线需要重新初始化

## 背光恒定功能开/关

**DDCCI\_ABA\_ENABLE(isenable);**

**true**：打开背光恒定功能；**false**：关闭背光恒定功能

## 擦除Flash中指定的背光调节数据

**DDCCI\_EraseBacklight(BacklightIndex);**

**BacklightIndex**：亮度列表，一共十组数据，取值范围：0-9。

注意：Flash是按页擦除，1 bank共有16 page，每组数据存放在1 page上；每次写入Flash数据时需要先擦除Flash，擦除完后Flash中数据均为0xFF。

## 在Flash中写入背光调节数据

**DDCCI\_WriteBacklight(BacklightIndex,LightValue,PWMValue);**

**BacklightIndex**：亮度列表，一共十组数据，取值范围：0-9。

**LightValue**：传感器亮度设定值，与亮度传感器的监测值进行对比。

**PWMValue**：初始PWM值，当LightValue与传感器监测值比对超过一定范围后PWM值开始在此值上下一定范围内调节。

写入Flash中的一组数据共5 Byte，BacklightIndex -- 1 Byte，LightValue -- 2 Byte，PWMValue -- 2 Byte。

## 读取Flash中的背光调节数据

**DDCCI\_ReadBacklight(BacklightIndex,data);**

**BacklightIndex**：亮度列表，一共十组数据，取值范围：0-9。

**data**：数组指针，存放从Flash中读取的数据，9个字节大小。

**data[0]-data[2]**：固定位

**data[3]**：BacklightIndex

**data[4]**：LightValue高8位

**data[5]**：LightValue低8位

**data[6]**：PWMValue高8位

**data[7]**：PWMValue低8位

**data[8]**：校验位

## 读取亮度传感器的值和当前PWM值

**DDCCI\_GetBacklight(data);**

**data**：数组指针，存放读取的亮度传感器的值和当前PWM值，8个字节大小。

**data[0]-data[2]**：固定位

**data[3]**：亮度传感器值高8位

**data[4]**：亮度传感器值低8位

**data[5]**：当前PWM值高8位

**data[6]**：当前PWM值低8位

**data[7]**：校验位

## 应用当前设定的PWM值并调节背光

**DDCCI\_UseBacklight(LightValue,PWMValue);**

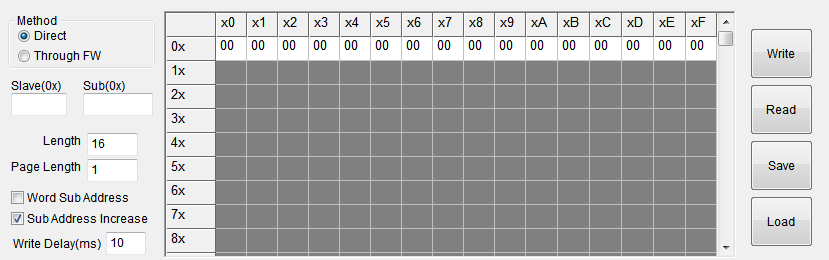
**LightValue**：保留未使用，2 Byte

**PWMValue**：PWM的设定值，2 Byte，应用后会调节PWM到此值大小

# DDCCI I2C说明

## DDCCI I2C 协议说明

可以使用工具RTDTool.exe的I2C功能模拟



### 写数据 Write

**Slave** 固定为6E

**Sub** g\_pucDdcciRxBuf[0] 作用未知

**0x00** g\_pucDdcciRxBuf[1] 表示数据长度

**0x01** g\_pucDdcciRxBuf[2] DDCCI\_COMMAND

**0x02** g\_pucDdcciRxBuf[3] DCCI\_SOURCE\_OPCODE

... ...

... ...

### 读数据 Read

**Slave** 固定为6E

**Sub**

**0x00** g\_pucDdcciTxBuf[0] 读取的数据

**0x01** ...

... ...

... ...

读取的各数据位定义，根据具体的命令所定义不同。

### 举例说明：

**W: 6E 01 | 01 01 10**

查询当前亮度指令

**R: 6E 01 | 6E 88 02 00 10 00 00 64 00 2C EC**

亮度最大值为0x64 当前值为0x2C

0xEC是异或校验位

注意：I2C在读数据时，需要先写入相应功能的命令指令才能读取需要的数据。

## \_DDCCI\_CMD\_GAMMAUPDATA 协议简要说明

### 数据格式说明

#### 写数据 Write：

**Slave** addr 0x6E

**Sub** g\_pucDdcciRxBuf[0] addr 0x00 //任意 不明作用

**0x00** g\_pucDdcciRxBuf[1] lenth 0x?? //数据区长度 从3开始视为数据区

**0x01** g\_pucDdcciRxBuf[2] \_DDCCI\_COMMAND 0xAA //\_GAMMAUPDATA

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*数据区\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*//

**0x02** g\_pucDdcciRxBuf[3] \_DDCCI\_SOURCE\_OPCODE

\_DDCCI\_OPCODE\_GAMMA\_ERASE 0xAA // 擦除flash指定页

\_DDCCI\_OPCODE\_GAMMA\_SETDATA 0x10 // 指定地址写flash

\_DDCCI\_OPCODE\_GAMMA\_GETDATA 0x11 // 指定地址读flash

\_DDCCI\_OPCODE\_GAMMA\_USEDATA 0x12 // 使用flash中储存的gamma值

\_DDCCI\_OPCODE\_GAMMA\_DISABLE 0x1F // 关闭gamma功能

\_DDCCI\_OPCODE\_GAMMA\_ENABLE 0x20 // 开启gamma功能

OPCODE 输入错误有错误反馈

**0x03** g\_pucDdcciRxBuf[4]

**...** ...

#### 读数据 Read：

**Slave** addr 0x6E

**Sub** addr 0x00

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*数据区\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*//

**0x00** g\_pucDdcciTxBuf[0] 读取的数据

**0x01** ...

... ...

### \_DDCCI\_OPCODE\_GAMMA\_ERASE 0xAA // 擦除flash指定页

#### 写数据 Write 数据区格式

**0x02** g\_pucDdcciRxBuf[3] \_DDCCI\_OPCODE\_GAMMA\_ERASE 0xAA

**0x03** g\_pucDdcciRxBuf[4] flash 页地址 0~7，2页递进

0~3占用\_FLASH\_GAMMA\_BANK（25）

4~7占用\_FLASH\_GAMMA\_BANK（26）

如果4输入无效数字有错误反馈 否则无反馈

### \_DDCCI\_OPCODE\_GAMMA\_SETDATA 0x10 // 指定地址写flash

#### 写数据 Write 数据区格式

**0x02** g\_pucDdcciRxBuf[3] \_DDCCI\_OPCODE\_GAMMA\_SETDATA 0x10

**0x03** g\_pucDdcciRxBuf[4] 写flash地址 偏移量 高位

**0x04** g\_pucDdcciRxBuf[5] 写flash地址 偏移量 低位

**0x05** g\_pucDdcciRxBuf[6] 写flash地址 页偏移 0~7

**0x06 - end** g\_pucDdcciRxBuf[7]~end 写入数据

如果6输入无效数字有错误反馈 否则无反馈

### \_DDCCI\_OPCODE\_GAMMA\_GETDATA 0x11 // 指定地址读flash

#### 写数据 Write 数据区格式

**0x02** g\_pucDdcciRxBuf[3] \_DDCCI\_OPCODE\_GAMMA\_GETDATA 0x11

**0x03** g\_pucDdcciRxBuf[4] 读flash地址 偏移量 高位

**0x04** g\_pucDdcciRxBuf[5] 读flash地址 偏移量 低位

**0x05** g\_pucDdcciRxBuf[6] 读flash地址 页偏移 0~7

如果6输入无效数字有错误反馈 否则反馈读取数据

#### 读数据 Read 数据区格式

读取数据固定长度14 byte

反馈数据格式

0x11 0x10 + 读取数据

### \_DDCCI\_OPCODE\_GAMMA\_USEDATA 0x12 // 使用flash中储存的gamma值

#### 写数据 Write 数据区格式

**0x02** g\_pucDdcciRxBuf[3] \_DDCCI\_OPCODE\_GAMMA\_USEDATA 0x12

**0x03** g\_pucDdcciRxBuf[4] flash 页地址 0~7，2页递进

0~3占用\_FLASH\_GAMMA\_BANK（25）

4~7占用\_FLASH\_GAMMA\_BANK（26）

如果4输入无效数字有错误反馈 否则无反馈

### \_DDCCI\_OPCODE\_GAMMA\_DISABLE 0x1F // 关闭gamma功能

#### 写数据 Write 数据区格式

**0x02** g\_pucDdcciRxBuf[3] \_DDCCI\_OPCODE\_GAMMA\_ENABLE 0x1F

end 无反馈

### \_DDCCI\_OPCODE\_GAMMA\_ENABLE 0x20 // 开启gamma功能

#### 写数据 Write 数据区格式

**0x02** g\_pucDdcciRxBuf[3] \_DDCCI\_OPCODE\_GAMMA\_DISABLE 0x20

end 无反馈

## 背光调节功能DDCCI I2C说明

### 数据格式说明

#### 写数据 Write：

**Slave** addr 0x6E

**Sub** g\_pucDdcciRxBuf[0] addr 0x00 //任意 不明作用

**0x00** g\_pucDdcciRxBuf[1] lenth 0x?? //数据区长度 从3开始视为数据区

**0x01** g\_pucDdcciRxBuf[2] \_DDCCI\_COMMAND 0xBB//\_BACKLIGHTDATA

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*数据区\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*//

**0x02** g\_pucDdcciRxBuf[3] \_DDCCI\_SOURCE\_OPCODE

\_DDCCI\_OPCODE\_BACKLIGHT\_ERASE 0x00 //擦除Flash指定页

\_DDCCI\_OPCODE\_BACKLIGHT\_SETFLASHDATA 0x01 //写入Flash数据

\_DDCCI\_OPCODE\_BACKLIGHT\_GETFLASHDATA 0x02 //读出Flash数据

\_DDCCI\_OPCODE\_BACKLIGHT\_GETDATA 0x03 //读传感器和PWM值

\_DDCCI\_OPCODE\_BACKLIGHT\_USEDATA 0x04 //应用PWM值

**0x03** g\_pucDdcciRxBuf[4]

**...** ...

#### 读数据 Read：

**Slave** addr 0x6E

**Sub** addr 0x00

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*数据区\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*//

**0x00** g\_pucDdcciTxBuf[0] 读取的数据

**0x01** ...

... ...

### \_DDCCI\_OPCODE\_BACKLIGHT\_ERASE 0x00 //擦除Flash指定页

#### 写数据 Write 数据区格式

**0x02** g\_pucDdcciRxBuf[3] \_DDCCI\_OPCODE\_BACKLIGHT\_ERASE 0x00

**0x03** g\_pucDdcciRxBuf[4] Flash页地址 0-9 （亮度列表）

如果4输入无效数字有错误反馈 否则无反馈

### \_DDCCI\_OPCODE\_BACKLIGHT\_SETFLASHDATA 0x01 //写入Flash数据

#### 写数据 Write 数据区格式

**0x02** g\_pucDdcciRxBuf[3] \_DDCCI\_OPCODE\_BACKLIGHT\_SETFLASHDATA 0x01

**0x03** g\_pucDdcciRxBuf[4] Flash页地址 0-9 （亮度列表），写入Flash中

**0x04** g\_pucDdcciRxBuf[5] 写入亮度传感器对比值高8位

**0x05** g\_pucDdcciRxBuf[6] 写入亮度传感器对比值低8位

**0x06** g\_pucDdcciRxBuf[7] 写入PWM设定值高8位

**0x07** g\_pucDdcciRxBuf[8] 写入PWM设定值低8位

如果4输入无效数字有错误反馈 否则无反馈

### \_DDCCI\_OPCODE\_BACKLIGHT\_GETFLASHDATA 0x02 //读出Flash数据

#### 写数据 Write 数据区格式

**0x02** g\_pucDdcciRxBuf[3] \_DDCCI\_OPCODE\_BACKLIGHT\_GETFLASHDATA 0x02

**0x03** g\_pucDdcciRxBuf[4] Flash页地址 0-9 （亮度列表）

如果4输入无效数字有错误反馈 否则反馈读取数据

#### 读数据 Read 数据区格式

读取数据固定长度9 Byte，数据格式如下：

0x02 + 0x06 + 0xBB +（5位数据）+ 校验位

**0x00 - 0x02** g\_pucDdcciTxBuf[0]~g\_pucDdcciTxBuf[2]：固定位

**0x03** g\_pucDdcciTxBuf[3]：BacklightIndex

**0x04** g\_pucDdcciTxBuf[4]：LightValue高8位

**0x05** g\_pucDdcciTxBuf[5]：LightValue低8位

**0x06** g\_pucDdcciTxBuf[6]：PWMValue高8位

**0x07** g\_pucDdcciTxBuf[7]：PWMValue低8位

**0x08** g\_pucDdcciTxBuf[8]：校验位

### \_DDCCI\_OPCODE\_BACKLIGHT\_GETDATA 0x03 //读传感器和PWM值

#### 写数据 Write 数据区格式

**0x02** g\_pucDdcciRxBuf[3] \_DDCCI\_OPCODE\_BACKLIGHT\_GETDATA 0x03

#### 读数据 Read 数据区格式

读取数据固定长度8 Byte，数据格式如下：

0x03 + 0x05 + 0xBB + （4位数据）+ 校验位

**0x00 - 0x02** g\_pucDdcciTxBuf[0]~g\_pucDdcciTxBuf[2]：固定位

**0x03** g\_pucDdcciTxBuf[3]：亮度传感器值高8位

**0x04** g\_pucDdcciTxBuf[4]：亮度传感器值低8位

**0x05** g\_pucDdcciTxBuf[5]：当前PWMValue高8位

**0x06** g\_pucDdcciTxBuf[6]：当前PWMValue低8位

**0x07** g\_pucDdcciTxBuf[7]：校验位

### \_DDCCI\_OPCODE\_BACKLIGHT\_USEDATA 0x04 //应用PWM值

#### 写数据 Write 数据区格式

**0x02** g\_pucDdcciRxBuf[3] \_DDCCI\_OPCODE\_BACKLIGHT\_USEDATA 0x04

**0x03** g\_pucDdcciRxBuf[4] 保留，可以为零

**0x04** g\_pucDdcciRxBuf[5] 保留，可以为零

**0x05** g\_pucDdcciRxBuf[6] PWM值高8位

**0x06** g\_pucDdcciRxBuf[7] PWM值低8位

屏幕背光会调节到设定PWM值，无数据反馈

# 附录一：

例表GAMMA18

// R Table

0x00, 0x00,

0x00, 0x01,

0x00, 0x04,

0x00, 0x09,

0x00, 0x10,

0x00, 0x18,

0x00, 0x23,

0x00, 0x30,

0x00, 0x3F,

0x00, 0x4D,

0x00, 0x5D,

0x00, 0x6E,

0x00, 0x82,

0x00, 0x9C,

0x00, 0xB9,

0x00, 0xD6,

0x00, 0xF3,

0x01, 0x0A,

0x01, 0x1D,

0x01, 0x30,

0x01, 0x45,

0x01, 0x5A,

0x01, 0x70,

0x01, 0x88,

0x01, 0x9F,

0x01, 0xB8,

0x01, 0xD1,

0x01, 0xEC,

0x02, 0x06,

0x02, 0x1B,

0x02, 0x31,

0x02, 0x47,

0x02, 0x5D,

0x02, 0x73,

0x02, 0x8B,

0x02, 0xA5,

0x02, 0xC0,

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