/\*

u8g\_dev\_a2\_micro\_printer\_ds.c

Use DC2 bitmap command of the A2 Micro panel termal printer

double stroke

Universal 8bit Graphics Library

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\*/

#include "u8g.h"

#define LINE\_DELAY 40

uint8\_t u8g\_dev\_a2\_micro\_printer\_fn(u8g\_t \*u8g, u8g\_dev\_t \*dev, uint8\_t msg, void \*arg)

{

switch(msg)

{

case U8G\_DEV\_MSG\_INIT:

u8g\_InitCom(u8g, dev, U8G\_SPI\_CLK\_CYCLE\_NONE);

break;

case U8G\_DEV\_MSG\_STOP:

break;

case U8G\_DEV\_MSG\_PAGE\_NEXT:

{

uint8\_t y, i, j;

uint8\_t \*ptr;

u8g\_pb\_t \*pb = (u8g\_pb\_t \*)(dev->dev\_mem);

y = pb->p.page\_y0;

ptr = pb->buf;

u8g\_WriteByte(u8g, dev, 27); /\* ESC \*/

u8g\_WriteByte(u8g, dev, 55 ); /\* parameter command \*/

u8g\_WriteByte(u8g, dev, 7); /\* Max printing dots,Unit(8dots),Default:7(64 dots) 8\*(x+1)\*/

u8g\_WriteByte(u8g, dev, 160); /\* 3-255 Heating time,Unit(10us),Default:80(800us) \*/

u8g\_WriteByte(u8g, dev, 20); /\* 0-255 Heating interval,Unit(10us),Default:2(20us)\*/

u8g\_WriteByte(u8g, dev, 18); /\* DC2 \*/

u8g\_WriteByte(u8g, dev, 42 ); /\* \* \*/

u8g\_WriteByte(u8g, dev, pb->p.page\_height );

u8g\_WriteByte(u8g, dev, pb->width/8 );

for( i = 0; i < pb->p.page\_height; i ++ )

{

for( j = 0; j < pb->width/8; j++ )

{

u8g\_WriteByte(u8g, dev, \*ptr);

ptr++;

}

u8g\_Delay(LINE\_DELAY);

y++;

}

/\* set parameters back to their default values \*/

u8g\_WriteByte(u8g, dev, 27); /\* ESC \*/

u8g\_WriteByte(u8g, dev, 55 ); /\* parameter command \*/

u8g\_WriteByte(u8g, dev, 7); /\* Max printing dots,Unit(8dots),Default:7(64 dots) 8\*(x+1)\*/

u8g\_WriteByte(u8g, dev, 80); /\* 3-255 Heating time,Unit(10us),Default:80(800us) \*/

u8g\_WriteByte(u8g, dev, 2); /\* 0-255 Heating interval,Unit(10us),Default:2(20us)\*/

}

break;

}

return u8g\_dev\_pb8h1\_base\_fn(u8g, dev, msg, arg);

}

static uint8\_t u8g\_dev\_expand4(uint8\_t val)

{

uint8\_t a,b,c,d;

a = val&1;

b = (val&2)<<1;

c = (val&4)<<2;

d = (val&8)<<3;

a |=b;

a |=c;

a |=d;

a |= a<<1;

return a;

}

uint8\_t u8g\_dev\_a2\_micro\_printer\_double\_fn(u8g\_t \*u8g, u8g\_dev\_t \*dev, uint8\_t msg, void \*arg)

{

switch(msg)

{

case U8G\_DEV\_MSG\_INIT:

u8g\_InitCom(u8g, dev, U8G\_SPI\_CLK\_CYCLE\_NONE);

break;

case U8G\_DEV\_MSG\_STOP:

break;

case U8G\_DEV\_MSG\_PAGE\_FIRST:

{

//u8g\_pb\_t \*pb = (u8g\_pb\_t \*)(dev->dev\_mem);

//u8g\_WriteByte(u8g, dev, 18); /\* DC2 \*/

//u8g\_WriteByte(u8g, dev, 42 ); /\* \* \*/

//u8g\_WriteByte(u8g, dev, pb->p.total\_height\*2 );

//u8g\_WriteByte(u8g, dev, pb->width/8\*2 );

}

break;

case U8G\_DEV\_MSG\_PAGE\_NEXT:

{

uint8\_t y, i, j;

uint8\_t \*ptr;

uint8\_t \*p2;

u8g\_pb\_t \*pb = (u8g\_pb\_t \*)(dev->dev\_mem);

y = pb->p.page\_y0;

ptr = pb->buf;

//u8g\_WriteByte(u8g, dev, 18); /\* DC2 \*/

//u8g\_WriteByte(u8g, dev, 35 ); /\* # \*/

//u8g\_WriteByte(u8g, dev, 0x0ff ); /\* max \*/

u8g\_WriteByte(u8g, dev, 27); /\* ESC \*/

u8g\_WriteByte(u8g, dev, 55 ); /\* parameter command \*/

u8g\_WriteByte(u8g, dev, 7); /\* Max printing dots,Unit(8dots),Default:7(64 dots) 8\*(x+1)\*/

u8g\_WriteByte(u8g, dev, 160); /\* 3-255 Heating time,Unit(10us),Default:80(800us) \*/

u8g\_WriteByte(u8g, dev, 20); /\* 0-255 Heating interval,Unit(10us),Default:2(20us)\*/

u8g\_WriteByte(u8g, dev, 18); /\* DC2 \*/

u8g\_WriteByte(u8g, dev, 42 ); /\* \* \*/

u8g\_WriteByte(u8g, dev, pb->p.page\_height\*2 );

u8g\_WriteByte(u8g, dev, pb->width/8\*2 );

for( i = 0; i < pb->p.page\_height; i ++ )

{

p2 = ptr;

for( j = 0; j < pb->width/8; j++ )

{

u8g\_WriteByte(u8g, dev, u8g\_dev\_expand4(\*p2 >> 4));

u8g\_WriteByte(u8g, dev, u8g\_dev\_expand4(\*p2 & 15));

p2++;

}

u8g\_Delay(LINE\_DELAY);

p2 = ptr;

for( j = 0; j < pb->width/8; j++ )

{

u8g\_WriteByte(u8g, dev, u8g\_dev\_expand4(\*p2 >> 4));

u8g\_WriteByte(u8g, dev, u8g\_dev\_expand4(\*p2 & 15));

p2++;

}

u8g\_Delay(LINE\_DELAY);

ptr += pb->width/8;

y++;

}

/\* set parameters back to their default values \*/

u8g\_WriteByte(u8g, dev, 27); /\* ESC \*/

u8g\_WriteByte(u8g, dev, 55 ); /\* parameter command \*/

u8g\_WriteByte(u8g, dev, 7); /\* Max printing dots,Unit(8dots),Default:7(64 dots) 8\*(x+1)\*/

u8g\_WriteByte(u8g, dev, 80); /\* 3-255 Heating time,Unit(10us),Default:80(800us) \*/

u8g\_WriteByte(u8g, dev, 2); /\* 0-255 Heating interval,Unit(10us),Default:2(20us)\*/

}

break;

}

return u8g\_dev\_pb8h1\_base\_fn(u8g, dev, msg, arg);

}

#if defined(U8G\_16BIT)

U8G\_PB\_DEV(u8g\_dev\_a2\_micro\_printer\_384x240, 384, 240, 8, u8g\_dev\_a2\_micro\_printer\_fn, u8g\_com\_null\_fn);

U8G\_PB\_DEV(u8g\_dev\_a2\_micro\_printer\_192x360\_ds, 192, 360, 8, u8g\_dev\_a2\_micro\_printer\_double\_fn, u8g\_com\_null\_fn);

U8G\_PB\_DEV(u8g\_dev\_a2\_micro\_printer\_192x720\_ds, 192, 720, 8, u8g\_dev\_a2\_micro\_printer\_double\_fn, u8g\_com\_null\_fn);

#else

U8G\_PB\_DEV(u8g\_dev\_a2\_micro\_printer\_384x240, 240, 240, 8, u8g\_dev\_a2\_micro\_printer\_fn, u8g\_com\_null\_fn);

U8G\_PB\_DEV(u8g\_dev\_a2\_micro\_printer\_192x360\_ds, 192, 240, 8, u8g\_dev\_a2\_micro\_printer\_double\_fn, u8g\_com\_null\_fn);

U8G\_PB\_DEV(u8g\_dev\_a2\_micro\_printer\_192x720\_ds, 192, 240, 8, u8g\_dev\_a2\_micro\_printer\_double\_fn, u8g\_com\_null\_fn);

#endif

U8G\_PB\_DEV(u8g\_dev\_a2\_micro\_printer\_192x120\_ds, 192, 120, 8, u8g\_dev\_a2\_micro\_printer\_double\_fn, u8g\_com\_null\_fn);