/\*

u8g\_dev\_sbn1661\_122x32.c

WG12232 display with 2xSBN1661 / SED1520 controller (122x32 display)

At the moment only available in the Arduino Environment

Universal 8bit Graphics Library

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\*/

#include "u8g.h"

#define WIDTH 122

#define HEIGHT 32

#define PAGE\_HEIGHT 8

static const uint8\_t u8g\_dev\_sbn1661\_122x32\_init\_seq[] PROGMEM = {

U8G\_ESC\_CS(0), /\* disable chip \*/

U8G\_ESC\_ADR(0), /\* instruction mode \*/

U8G\_ESC\_RST(15), /\* do reset low pulse with (15\*16)+2 milliseconds \*/

U8G\_ESC\_CS(1), /\* enable chip 1 \*/

0x0af, /\* display on \*/

0x0c0, /\* display start at line 0 \*/

0x0a0, /\* a0: ADC forward, a1: ADC reverse \*/

0x0a9, /\* a8: 1/16, a9: 1/32 duty \*/

U8G\_ESC\_CS(2), /\* enable chip 2 \*/

0x0af, /\* display on \*/

0x0c0, /\* display start at line 0 \*/

0x0a0, /\* a0: ADC forward, a1: ADC reverse \*/

0x0a9, /\* a8: 1/16, a9: 1/32 duty \*/

U8G\_ESC\_CS(0), /\* disable chip \*/

U8G\_ESC\_END /\* end of sequence \*/

};

uint8\_t u8g\_dev\_sbn1661\_122x32\_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);

u8g\_WriteEscSeqP(u8g, dev, u8g\_dev\_sbn1661\_122x32\_init\_seq);

break;

case U8G\_DEV\_MSG\_STOP:

break;

case U8G\_DEV\_MSG\_PAGE\_NEXT:

{

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

u8g\_SetAddress(u8g, dev, 0); /\* command mode \*/

u8g\_SetChipSelect(u8g, dev, 1);

u8g\_WriteByte(u8g, dev, 0x0b8 | pb->p.page); /\* select current page (SBN1661/SED1520) \*/

u8g\_WriteByte(u8g, dev, 0x000 ); /\* set X address \*/

u8g\_SetAddress(u8g, dev, 1); /\* data mode \*/

u8g\_WriteSequence(u8g, dev, WIDTH/2, pb->buf);

u8g\_SetAddress(u8g, dev, 0); /\* command mode \*/

u8g\_SetChipSelect(u8g, dev, 2);

u8g\_WriteByte(u8g, dev, 0x0b8 | pb->p.page); /\* select current page (SBN1661/SED1520) \*/

u8g\_WriteByte(u8g, dev, 0x000 ); /\* set X address \*/

u8g\_SetAddress(u8g, dev, 1); /\* data mode \*/

u8g\_WriteSequence(u8g, dev, WIDTH/2, WIDTH/2+(uint8\_t \*)pb->buf);

u8g\_SetChipSelect(u8g, dev, 0);

}

break;

case U8G\_DEV\_MSG\_CONTRAST:

break;

}

return u8g\_dev\_pb8v1\_base\_fn(u8g, dev, msg, arg);

}

/\* u8g\_com\_arduino\_sw\_spi\_fn does not work, too fast??? \*/

U8G\_PB\_DEV(u8g\_dev\_sbn1661\_122x32 , WIDTH, HEIGHT, PAGE\_HEIGHT, u8g\_dev\_sbn1661\_122x32\_fn, u8g\_com\_arduino\_no\_en\_parallel\_fn);