OLED_SPIflash

Add-on Library for OLED_I2C and SPIflash

Manual

Introduction:

This library is an add-on to OLED_I2C and will not work on its own. This add-on library also requires the SPIflash library.

This library adds a simple way to load images from SPI flash chip. The images must be contained within the SPIflash file system. Images can be added to the flash chips using the FlashUploader tool supplied with the SPIflash library.

EXAMPLE DATASETS USED:

These files can be found in the /SPIflash/tools/FlashUploader/Example Datasets folder

Full name	Short name	Minimum Flash Chip Size (Mbits)
TestImages_Mono.*	MONO.SFD	2 Mbits
TestImages Mono Large.*	MONO L.SFD	2 Mbits

These files can be found in the /OLED_SPIflash/DataSet folder.

Full name	Short name	Minimum Flash Chip Size (Mbits)
TestImages_OLED.*	OLED.SFD	2 Mbits

The specific dataset required by an example sketch it will be noted in the opening comments of that sketch.

You can always find the latest version of the library at http://www.RinkyDinkElectronics.com/
For version information, please refer to www.RinkyDinkElectronics.com/

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FUNCTIONS:

Notes

OLED_SPIflash(OLED, SPIflash); The main class constructor. OLED: a reference to an already created OLED_I2C (OLED) object SPIflash: a reference to an already created SPIflash object Parameters: OLED_SPIflash myFiles(&myOLED, &myFlash); // Create an instance of the OLED_SPIflash class Remember the '&' in front of the OLED and SPIflash object names

```
loadBitmap (fileID, x, y);
Load a monochrome image from the flash chip and display it on the screen.
                   fileID: ID of the file you want to open for reading x: x-coordinate of the upper, left corner of where to display the image y: y-coordinate of the upper, left corner of where to display the image
                   myFiles.loadBitmap(12, 0, 0); // Load the image with fileID 12 and display it
Usage:
                   Image dimensions are stored in the flash chip file system. No checking is done if the image will fit
Notes:
                   on the screen. Drawing images outside the screen may cause unpredictable results.
```

```
loadBitmap(fileid, x, y, ox, oy, sx, sy);
Load a section of a monochrome image from the flash chip and display it on the screen.
                      fileID: ID of the file you want to open for reading

x: x-coordinate of the upper, left corner of where to display the image
y: y-coordinate of the upper, left corner of where to display the image
ox: x-coordinate of the upper, left corner of the section in the original image
oy: y-coordinate of the upper, left corner of the section in the original image
Parameters:
                                  width of the section in pixels
height of the section in pixels
                       sx:
                       sy:
                      myFiles.loadBitmap(6, 0, 0, 100, 100, 128, 64); // Load the image with fileID 6 and display a part of it
Usage:
                      Original image dimensions are stored in the flash chip file system. No checking is done if the image
Notes:
                       will fit on the screen or if the section you are trying to display is within the bounds of the
                       image. Drawing images outside the screen may cause unpredictable results.
```