
AdafruitSSD1325 Library Documentation

Release 1.0

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DisplayIO driver for grayscale OLEDs drive by SSD1325

CHAPTER 1

Dependencies

This driver depends on:

- [Adafruit CircuitPython \(version 5+\)](#)

Please ensure all dependencies are available on the CircuitPython filesystem. This is easily achieved by downloading the [Adafruit library and driver bundle](#).

CHAPTER 2

Installing from PyPI

Note: This library is not available on PyPI yet. Install documentation is included as a standard element. Stay tuned for PyPI availability!

On supported GNU/Linux systems like the Raspberry Pi, you can install the driver locally [from PyPI](#). To install for current user:

```
pip3 install adafruit-circuitpython-ssd1325
```

To install system-wide (this may be required in some cases):

```
sudo pip3 install adafruit-circuitpython-ssd1325
```

To install in a virtual environment in your current project:

```
mkdir project-name && cd project-name
python3 -m venv .env
source .env/bin/activate
pip3 install adafruit-circuitpython-ssd1325
```


CHAPTER 3

Usage Example

```
import time
import board
import busio
import displayio
import adafruit_ssd1325

displayio.release_displays()

# This pinout works on a Metro and may need to be altered for other boards.
spi = busio.SPI(board.SCL, board.SDA)
tft_cs = board.D9
tft_dc = board.D8
tft_reset = board.D7

display_bus = displayio.FourWire(spi, command=tft_dc, chip_select=tft_cs, reset=tft_
↪reset,
                                baudrate=1000000)
time.sleep(1)
display = adafruit_ssd1325.SSD1325(display_bus, width=128, height=64)
```


CHAPTER 4

Contributing

Contributions are welcome! Please read our [Code of Conduct](#) before contributing to help this project stay welcoming.

CHAPTER 5

Documentation

For information on building library documentation, please check out [this guide](#).

6.1 Simple test

Ensure your device works with this simple test.

Listing 1: examples/ssd1325_simpletest.py

```
1  """
2  This test will initialize the display using displayio and draw a solid white
3  background, a smaller black rectangle, and some white text.
4  """
5
6  import board
7  import displayio
8  import terminalio
9  from adafruit_display_text import label
10 import adafruit_ssd1325
11
12 displayio.release_displays()
13
14 # Use for SPI
15 spi = board.SPI()
16 oled_cs = board.D5
17 oled_dc = board.D6
18 display_bus = displayio.FourWire(
19     spi, command=oled_dc, chip_select=oled_cs, baudrate=1000000, reset=board.D9
20 )
21
22 # Use for I2C
23 # i2c = board.I2C()
24 # display_bus = displayio.I2CDisplay(i2c, device_address=0x3c)
25
26 WIDTH = 128
27 HEIGHT = 64
```

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```
28 BORDER = 8
29 FONTSCALE = 1
30
31 display = adafruit_ssd1325.SSD1325(display_bus, width=WIDTH, height=HEIGHT)
32
33 # Make the display context
34 splash = displayio.Group(max_size=10)
35 display.show(splash)
36
37 color_bitmap = displayio.Bitmap(display.width, display.height, 1)
38 color_palette = displayio.Palette(1)
39 color_palette[0] = 0xFFFFFFFF # White
40
41 bg_sprite = displayio.TileGrid(color_bitmap, pixel_shader=color_palette, x=0, y=0)
42 splash.append(bg_sprite)
43
44 # Draw a smaller inner rectangle
45 inner_bitmap = displayio.Bitmap(
46     display.width - BORDER * 2, display.height - BORDER * 2, 1
47 )
48 inner_palette = displayio.Palette(1)
49 inner_palette[0] = 0x000000 # Black
50 inner_sprite = displayio.TileGrid(
51     inner_bitmap, pixel_shader=inner_palette, x=BORDER, y=BORDER
52 )
53 splash.append(inner_sprite)
54
55 # Draw a label
56 text = "Hello World!"
57 text_area = label.Label(terminalio.FONT, text=text, color=0x888888)
58 text_width = text_area.bounding_box[2] * FONTSCALE
59 text_group = displayio.Group(
60     max_size=10,
61     scale=FONTSCALE,
62     x=display.width // 2 - text_width // 2,
63     y=display.height // 2,
64 )
65 text_group.append(text_area) # Subgroup for text scaling
66 splash.append(text_group)
67
68 while True:
69     pass
```

6.2 adafruit_ssd1325

DisplayIO driver for grayscale OLEDs drive by SSD1325

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6.2.1 Implementation Notes

Hardware:

- Adafruit Monochrome 2.7" 128x64 OLED Graphic Display

Software and Dependencies:

- Adafruit CircuitPython 5+ firmware for the supported boards: <https://github.com/adafruit/circuitpython/releases>

```
class adafruit_ssd1325.SSD1325 (bus, **kwargs)  
    SSD1325 driver
```


CHAPTER 7

Indices and tables

- `genindex`
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