Adafruitstmpe610 Library Documentation

Release 1.0

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Contents

Adafruit CircuitPython module for the STMPE610 Resistive Touch Screen Controller

CHAPTER 1

Dependencies

This driver depends on:

- Adafruit CircuitPython
- Bus Device
- Register

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

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-stmpe610
```

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

```
sudo pip3 install adafruit-circuitpython-stmpe610
```

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-stmpe610
```

CHAPTER 3

Usage Example

See examples in github repository: https://github.com/adafruit/Adafruit_CircuitPython_STMPE610/tree/master/examples

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.

CHAPTER 6

Table of Contents

6.1 Simple test

Ensure your device works with this simple test.

Listing 1: examples/stmpe610_simpletest.py

```
import busio
import board
import digitalio
from adafruit_stmpe610 import Adafruit_STMPE610_SPI

spi = busio.SPI(board.SCK, board.MOSI, board.MISO)
cs = digitalio.DigitalInOut(board.D6)
st = Adafruit_STMPE610_SPI(spi, cs)

print("Go Ahead - Touch the Screen - Make My Day!")
while True:
    if not st.buffer_empty:
        print(st.read_data())
```

6.2 adafruit_stmpe610

This is a CircuitPython Driver for the STMPE610 Resistive Touch sensor

- Author(s): Jerry Needell

class adafruit_stmpe610.**Adafruit_STMPE610**
A driver for the STMPE610 Resistive Touch sensor.

buffer_empty
Buffer empty status

buffer_size
The amount of touch data in the buffer

get_point
Read one touch from the buffer

get_version
Read the version number from the sensosr

read_data()
Request next stored reading - return tuple containing (x,y,pressure)

touched
Report if any touches have been detectd

touches
Returns a list of touchpoint dicts, with 'x' and 'y' containing the touch coordinates, and 'pressure'

class adafruit_stmpe610.**Adafruit_STMPE610_I2C**(*i2c*, *address=65*)
I2C driver for the STMPE610 Resistive Touch sensor.

class adafruit_stmpe610.**Adafruit_STMPE610_SPI**(*spi*, *cs*, *baudrate=1000000*)
SPI driver for the STMPE610 Resistive Touch sensor.

CHAPTER 7

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