
Pumpkin SupMCU Interface

Release 1.0.0

James Womack <james@pumpkininc.com>

May 18, 2021

CONTENTS:

1	<i>linux</i> module API docs	1
1.1	<i>I2CLinuxMaster</i> module API docs	1
2	Indices and tables	3
	Python Module Index	5
	Index	7

LINUX MODULE API DOCS

The *pumpkin_supmcu.linux* module contains an implementations of the I2CMaster for the following devices:

- The SMBus2 Package as *I2CLinuxMaster*.

1.1 *I2CLinuxMaster* module API docs

```
class pumpkin_supmcu.linux.I2CLinuxMaster(port)
    Class to implement I2C in Linux

    property device_name: str
        Gets the device's hostname
        Return type str

    property device_pullups: bool
        If the I2C SDA/SCL pullups are ON or OFF.
        Return type bool

    property device_speed: pumpkin_supmcu.i2c.master.I2CBusSpeed
        The default I2C baudrate
        Return type I2CBusSpeed

    get_bus_devices()
        Gets the available I2C devices from the selected I2C bus and returns a list of device addresses
        Return type List[int]
        Returns A list of device addresses

    read(addr, amount)
        Reads amount bytes of data from address addr
        Parameters
            • addr (int) – The I2C Address to read from.
            • amount (int) – The amount of bytes to read from the bus.
        Return type bytes
        Returns The bytes read from the bus.

    write(addr, b)
        Writes all of b bytes to address addr
```

Parameters

- **addr** (`int`) – The I2C Address to write to.
- **b** (`bytes`) – The bytes b to write to the I2C Bus.

The `pumpkin-supmcu-smbus` package has the following functionality:

- **Leverages business logic found in `pumpkin-supmcu`.**
 - Please read `pumpkin-supmcu` documentation for usage, this is the implementation package for `I2C Driver`
- Interfaces `pumpkin-supmcu` package with the `smbus2` package

The documentation for the `pumpkin_supmcu` package can be [found here](#).

**CHAPTER
TWO**

INDICES AND TABLES

- genindex
- modindex
- search

PYTHON MODULE INDEX

p

pumpkin_supmcu.linux, [1](#)

INDEX

D

`device_name` (*pumpkin_supmcu.linux.I2CLinuxMaster property*), [1](#)
`device_pullups` (*pumpkin_supmcu.linux.I2CLinuxMaster property*), [1](#)
`device_speed` (*pumpkin_supmcu.linux.I2CLinuxMaster property*), [1](#)

G

`get_bus_devices()` (*pumpkin_supmcu.linux.I2CLinuxMaster method*), [1](#)

I

`I2CLinuxMaster` (*class in pumpkin_supmcu.linux*), [1](#)

M

`module`
 `pumpkin_supmcu.linux`, [1](#)

P

`pumpkin_supmcu.linux`
 `module`, [1](#)

R

`read()` (*pumpkin_supmcu.linux.I2CLinuxMaster method*), [1](#)

W

`write()` (*pumpkin_supmcu.linux.I2CLinuxMaster method*), [1](#)